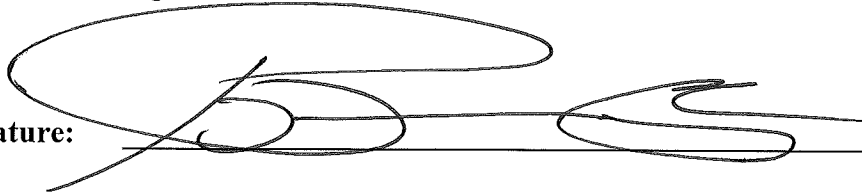


CERTIFICATION STATEMENT

I certify under penalty of law that this document and all attachments were prepared under my discretion or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the program, 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.

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Signature:

A handwritten signature in black ink, consisting of a large, stylized 'P' followed by a series of loops and a final horizontal stroke.

Name: J. D. PROVENZANO III
Deputy, Assistant Chief of Staff,
Installation and Environment Division
By direction of the Commander



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1. INTRODUCTION

Polluted stormwater runoff is transported through Municipal Separate Storm Sewer Systems (MS4s) and often discharged untreated into local water bodies. To prevent harmful pollutants from being washed or dumped into an MS4, operators must obtain a Virginia Pollutant Discharge Elimination System (VPDES) permit and develop a stormwater management program.

Discharges from MS4s are regulated under the Virginia Stormwater Management Act and the Federal Clean Water Act. Marine Corps Installations National Capital Region - Marine Corps Base Quantico (MCINCR - MCBQ) is considered a small MS4 operator, permitted under the Virginia Stormwater Management Program MS4 General Permit; permit# VAR040069.

Small MS4 programs must be designed and implemented to control the discharge of pollutants from their storm sewer system to the maximum extent practicable in a manner that protects the water quality in nearby surface waters and wetlands.

The MS4 General Permit requires that small MS4s develop, implement, and enforce a program that includes the following six minimum control measures:

- Public education and outreach on stormwater impacts.
- Public involvement and participation.
- Illicit discharge detection and elimination.
- Construction site stormwater runoff control.
- Post-construction stormwater management in new development and redevelopment.
- Pollution prevention/good housekeeping for municipal operations.



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Each of these minimum control measures has multiple requirements that MCINCR - MCBQ must accomplish as part of its stormwater management program. To meet these requirements, MCINCR - MCBQ has developed a stormwater management plan with proposed best management practices to help reduce the negative effects of stormwater runoff. The best management practices to be implemented by MCINCR - MCBQ are described in the Comprehensive Stormwater Management Action Plan (CSWMAP) and this annual report.

MCINCR - MCBQ is not relying on another government entity or any qualifying local programs to satisfy any permitting requirements. Since the last reporting year, there have been no changes to the operator's roles and responsibilities or to key personnel.



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2. BACKGROUND

MCINCR - MCBQ is covered under Phase II of the federal storm water program. The Phase II rule regulates storm water discharges at MCINCR - MCBQ from two categories.

- Operational requirements related to its Municipal Separate Storm Sewer System (MS4), which is defined as the system of storm water conveyances (including ditches, catch basins, piping) owned and operated by MCINCR - MCBQ.
- Construction activities disturbing land between 1 and 5 acres in size which occur on MCINCR - MCBQ property.

As a Department of Defense (DoD) facility in an urbanized area, MCINCR - MCBQ is considered a small MS4, which subjects it to the federal Phase II storm water requirements and state requirements. MCINCR - MCBQ is also subject to the requirements of the Chesapeake Bay Preservation Act, which places additional restrictions on land disturbing activities.

MCINCR - MCBQ maintains VPDES permit VA002151 for industrial stormwater discharges and an associated storm water pollution prevention plan (SWPPP). The SWPPP partially overlaps the MS4 permit requirements and was consolidated in Fiscal Year 2011 into the existing CSWMAP.

The watersheds surrounding MCINCR - MCBQ are assigned a specific code. The United States Geological Survey has categorized all of the watersheds in the United States by using Hydrologic Unit Codes (HUC). The HUC is an 8-digit code that refers to the specific watershed in which the site is located. The HUC for the lower Potomac is 02070011. All storm-water discharges of concern from MCINCR - MCBQ are released to the Potomac River or tributaries of the Potomac River.



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3. CURRENT PERMIT BEST MANAGEMENT PRACTICES AND GOALS

MCINCR - MCBQ selected Best Management Practices (BMPs) under each of the six minimum control measures to achieve the overall objective of reducing the discharge of pollutants into receiving waters, including the Potomac River. These BMPs were documented in the General Permit Registration Statement.

Information on compliance with each of the six minimum control measures, an assessment of the appropriateness of the selected BMPs, and progress towards achieving them are described in the following sections.

3.1 PUBLIC EDUCATION AND OUTREACH ON STORM WATER IMPACTS

The Public Education and Outreach minimum control measures consist of BMPs that focus on the development of educational materials and awareness concerning stormwater pollution. They are designed to inform and educate the public about the potential impact storm water discharges have on local water bodies and the steps that the public can take to help reduce pollutants in storm water runoff.

3.1.1 Current BMP and Goals

Currently MCINCR - MCBQ provides storm water education by means of classroom training for construction contractor personnel and base personnel. MCINCR - MCBQ also has a web-site where storm water information may be accessed by contractors, tenants, and activities. Frequently asked questions, links to articles, important templates for storm water construction applications, and other pertinent information is kept on this site. Also, charity car wash functions are common at MCINCR - MCBQ, and brochures for proper car washing protocol and general storm water education are utilized. These brochures are given to the car wash participants and also handed out to car wash patrons. MCINCR - MCBQ was working toward achieving 4 goals within this BMP during this reporting cycle.



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Goal #1: Web based publishing will be used for public communication as a substitute for the Quantico Sentry, which is no longer in circulation. NREA Staff continually improve and expands the BMPs and other initiatives, such as: adding more public involvement to the education program, providing additional on-site awareness training presentations to contractors and base personnel, and publishing stormwater awareness articles which facilitate knowledge of stormwater issues.

Tasks:

An article dealing with storm water issues will be prepared and published on the Web Site.

Status:

For the reporting year of July 2017– June 2018, no article on storm water was published on the website. Instead, a training presentation has been provided on the website, focusing on the Introduction to Stormwater which reviews regulations, environmental impacts and awareness of basic principles. The training presentation is available at:

<https://www.quantico.marines.mil/LinkClick.aspx?fileticket=K4nEbU6ByEE%3d&tabid=20836&portalid=147&mid=46642>

Additionally, Facebook posts were published depicting the efforts of volunteers cleaning up trash from the Base and shorelines and are available at the following link:

<https://www.facebook.com/officialmarinecorpsbasequantico/posts/1817527064977840>



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Goal #2: Education in storm water, via classroom education and web-based information.

Tasks:

- a) On-site classroom training will be monitored through the reporting period and reported annually.
- b) Conduct on-site classroom training for construction contractor personnel, contract officers, engineering technicians, construction managers and other installation staff.
- c) Conduct on-site classroom training for Environmental Coordinators (ECs) aboard MCINCR - MCBQ. ECs act as the unit's official liaison with NREA Branch on environmental matters. Their duties include maintaining general awareness of environmental regulations applicable to their units, mandatory NREA Branch training events and meetings, required reports to NREA Branch including environmental data collection and the facilitation and tracking of corrective actions, and relaying environmental compliance matters, policies and procedures to the activity and personnel.

Status:

- a) All new construction projects are required to have their Responsible Land Disturbance and site superintendents attend the classroom storm water training. It is MCBQs intent to hold classroom training sessions for construction personnel once every calendar quarter. Our annual training was held on 04 June 2018.
- b) On-site classroom training for construction personnel, contract officers, engineering technicians, construction managers and other installation staff was conducted during this reporting cycle.



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- c) ECs attended storm water pollution prevention classroom training on 18 April 2018 and 7 August 2018. These approximately 30 ECs from all major commands and tenants on Base are instructed how to train all their staff.

Goal #3: Provide brochures to charity car wash functions.

Tasks:

- Annual Requirement - Keep an inventory of charity car wash activities on base.
- On-going Requirement - Ensure that the activity coordinators receive and pass out the car wash brochures and follow proper car washing procedures.

Status: While still ongoing, NREA realized this goal was ineffectively being tracked so a new goal was developed to focus on educating the public on the effects of nutrient overloading in waterways and how to help prevent this from occurring. Additionally, during this past year's Earth Day event displays were presented to hundreds of participants regarding proper car washing procedures as well as proper maintenance, clean up and disposal of outdoor areas regarding activities such as mowing the lawn, cleaning up brush, raking leaves, etc.

The intended procedure was as follows; however, no tracking or reporting occurred due to difficulties in maintaining this information with volunteers. Car washes are coordinated through the Marine Federal Credit Union (MFCU) on base. The credit union provides NREA's car wash brochures to each organization conducting a car wash to provide to their volunteers and each car wash patron once their vehicle is washed. Once the event concludes, a report of how many cars were washed and provided stormwater information was supposed to be generated and reported to NREA staff. However, volunteers did not consistently provide the requested information.



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Additionally, a car wash brochure and guidelines are provided to the public on the Quantico web site at:

[Car wash brochure](#)

[Car wash guidelines](#)

Goal #4: Provide public outreach and education to community during Earth Day

Task: Provide general stormwater awareness and information during earth day via face-to-face interaction.

Status: During Earth Day events, NREA had an educational booth set up to provide outreach and information to the public. This event included a “Kids Fest” so the targeted public was children and parents along with Base personnel. Stormwater handouts and activity books were distributed which discussed basic stormwater awareness as well as topics related to stormwater pollution. There was a display used as a visual aid; demonstrating the effects precipitation and runoff have on erosion and overall stormwater management. The display included three representative samples of different ground coverings and their effect on runoff during a rain event. The three ground coverings were denuded (just soil), mulch, and grass. It displayed how the more stabilization an area has; the less runoff potential exists during a rain event. NREA also involved the community in a painted rock scavenger hunt. The rocks had all environmental medias including pollution related items painted onto the rock which was then hidden and the person who found the rock would return the rock to NREA, engage in conversation with an employee about the rock and receive a prize. NREA also exceeded this goal by participating in Modern Day Marine which interfaces with an audience consisting of Marines, their families and base employees.

Goal #5: Participate in an event that showcased the importance of proper trash and litter disposal and the effects of improperly handling and the hazards associated with stormwater pollution.

Task: Earth Day Week, Base and Shoreline Clean-up



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Status: The week of Earth Day, NREA coordinated with volunteer organizations in cleaning up the Base along all major roadways and shoreline areas. Approximately nine tons of trash were recovered for proper disposal and recycling.

3.1.2 BMP Compliance

MCINCR - MCBQ is in partial compliance with this BMP. Emphasis should be focused more on publishing articles in Base social media since the Base no longer maintains a newspaper. Additionally, further coordination with the Navy Credit Union on base should be initiated to ensure all car washes are reported and tracked as required. MCINCR - MCBQ will also place emphasis on the need to ensure training programs are conducted as intended and reach as many members of the public as possible.

3.1.3 BMP Appropriateness

This BMP is appropriate for the target audience. Further development of the BMPs would ensure better public outreach throughout MCINCR – MCBQ via social media in lieu of the Base no longer maintaining a newspaper and ensure more consistent coverage in the storm water training program.

3.1.4 Goals Progress

This goal is being partially met. MCINCR - MCBQ intends to implement the areas of improvement that have been identified and discussed during the next reporting cycle.

3.2 PUBLIC INVOLVEMENT/PARTICIPATION

The Public Involvement/Participation minimum control measures consists of BMPs that focus on involving employees, residents, contractors, and active duty personnel in development and implementation of the CSWMAP. This is achieved through Public Events (e.g., Earth Day



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events and Modern Day Marine Expo), through literature available to the public, and training events.

3.2.1 Current BMP and Goals

Basewide involvement with stormwater program implementation is a challenging goal. MCINCR - MCBQ involves its facility maintenance staff in understanding and reporting incidents involving storm water non-compliance, water and sewer leaks, and area wide clean-up operations. Goals 1 and 2 were listed to be completed however three additional activities were completed in addition to the 2 anticipated goals. The additional goals are listed below along with their status.

Goal #1: Roadside Clean-up

Area wide cleanings are conducted routinely by Base personnel as part of area beautification. Bi-weekly street sweeping is also conducted. This helps to minimize and eliminate debris from being discharged into the waters of the Commonwealth.

Tasks: Routine details of Base personnel are utilized not only for cleaning, but their duty offers a chance for public awareness for those that pass-by when it is occurring.

Status: This activity is ongoing year-round.

Goal #2: Earth Day Clean-up Activity

Tasks: Enlist the aid of Marine and civilian volunteers in the cleaning of excess trash and debris from around the installation and on the waterfront.

Status: During Earth Week activities, volunteers participated in installation and shoreline cleanup activities.

Goal #3: Hazardous Waste cleanup



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Tasks: Make cleanup easy and accessible

Status: NREA conducted an amnesty day located at FMS to collect any hazardous waste that needed to be disposed. This occurred during Earth Day Week celebrations in coordination with the Base Recycling and Reuse Program Manager.

Goal #4: Identify Storm drains to provide awareness and protection from pollution

Tasks: Locate and designate all inlets with markers so it is obvious to the public to aid in protecting the waterways

Status: Badges have been installed on all Stormwater drains in the housing areas. More badges are to be installed in the future pending the proper manpower and resources are available.

Goal #5: Trainings to increase knowledge and awareness.

Tasks: Conduct appropriate trainings for target audiences

Status: As previously stated, training was conducted for the Environmental Coordinators. The role of the Environmental Coordinator is to ensure that rules and regulations are being met and that the base is in compliance.

3.2.2 BMP Compliance

MCINCR - MCBQ is currently in compliance with this BMP.

3.2.3 BMP Appropriateness

This BMP is appropriate for the target audience.



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3.2.4 Goal Progress

This goal is currently being met and exceeded. MCINCR - MCBQ intended to expand on this BMP in future reporting cycles. MCINCR - MCBQ wanted to label storm water drains on base with markers to remind everyone that only stormwater is supposed to be discharged into stormwater drains and has already started implementing this goal.

3.3 ILLICIT DISCHARGE DETECTION AND ELIMINATION

The search for illicit discharges is always ongoing Basewide.

3.3.1 Current BMP and Goals

Goal #1: Conduct illicit discharge surveys of the base.

Tasks:

- Completed illicit discharge survey of the Mainside outfalls.

Status:

In addition to constant observation of the installation by NREA and shop personnel for leaks and spills and outfall monitoring, through sampling, is ongoing; NREA currently has a contract that involves a complete illicit discharge survey of the Mainside of the Base, which will be completed by the next reporting cycle. Currently, 287 stormwater outfalls have screened and we are still awaiting our final report with dye study and GIS results.



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Goal #2: Investigate and eliminate any discovered illicit discharges.

Tasks:

- Determine the cause of the illicit discharge.
- If needed, investigate actions to remove and/or repair the illicit discharge from the system.
- Track all findings and resolutions for the reporting period.

Status:

No major illicit discharges were reported or found during this reporting cycle and there are no known interconnections based upon current draft results.

3.3.2 BMP Compliance

MCINCR - MCBQ is currently in partial compliance with this BMP. The inspections and surveys have been completed by the contractor; however, the contract is still in the process of being fulfilled and is not in completion status.

3.3.3 BMP Appropriateness

This BMP is appropriate for the minimum control measures because it will lead to the identification and elimination of any further identified illicit discharges.

3.3.4 Goal Progress

This goal is near completion and will be finalized during the next reporting year, subsequent to contract deliverable documents.



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3.4 CONSTRUCTION SITE STORM WATER RUNOFF CONTROL

The current construction site runoff minimum control measures consist of BMPs focusing on the reduction of pollutants in storm water from certain construction activities.

3.4.1 Current BMP and Goal

All construction sites at MCINCR - MCBQ above 2,500 square feet are evaluated to determine whether they require an approved Erosion and Sediment Control (E&SC) Plan. All construction sites that have one acre or greater of disturbed ground are required to obtain a Storm Water Construction General Permit from the Virginia Department of Environmental Quality (DEQ), which includes development of a SWPPP. All plans must be submitted to and approved by NREA.

Goal #1: Continue to monitor and inspect all construction site activity that is over one acre, or requires an erosion and sediment control plan.

Tasks:

- Continue to inspect sites for E&SC and storm water pollution prevention controls.
- Ensure that all new construction activity requiring an E&SC Plan comply with applicable submission/approval requirements, and that all new construction activity > 1 acre obtain a DEQ storm water construction permit and develop an approved Storm Water Management Plan (SWMP) before any land disturbing activities take place.



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Status: Program checks are in place to ensure that the goal is met. During this reporting period, no sites were found to have begun work without the approved permit and plans. However, five Notices of Violation (NOV) were issued to active construction sites for failure in housekeeping; stabilization; inlet protection; erosion and sediment control maintenance; and, failure to protect adjacent downstream properties and roadways.

3.4.2 BMP Compliance

MCINCR - MCBQ is currently in compliance with this BMP for all NREA approved construction sites.

3.4.3 BMP Appropriateness

This BMP is appropriate for the minimum control measures because it helps minimize erosion from construction sites and limit sediment runoff.

3.4.4 Goal Progress

This goal is ongoing. Copies of all construction site permits and SWPPPs are maintained by NREA for sites greater than one acre in area. Additional goals have been prepared that will lead to greater consistency in controlling construction site runoff.

3.5 POST-CONSTRUCTION STORM WATER MANAGEMENT IN NEW DEVELOPMENT AND REDEVELOPMENT.

The Post-Construction Storm Water Management minimum control measures consists of stormwater BMPs focusing on the prevention or minimization of water quality impacts from new development and redevelopment projects that disturb greater than or equal to one acre, including projects less than one acre that are part of a larger common plan of development that discharges into the small MS4.



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3.5.1 Current BMP and Goal

Completed construction sites are inspected by NREA to ensure all development is complete and follows the Base SWPPP guidelines.

Goal #1: Continue to inspect (annually) stormwater BMPs from new development and redevelopment.

Tasks:

- Add any new stormwater BMPs to the schedule, as they are completed.
- Conduct annual inspections of stormwater BMPs.
- Note any problems and put in repair ticket for maintenance work if necessary.
- Perform follow-up inspections as necessary.

Status:

NREA inspected only the new stormwater BMPs that were added to our inventory during the 2017-2018 reporting cycle. All existing stormwater BMPs are being inspected by a current working contract during this reporting cycle and continuing into the next reporting cycle. The inspections and reports are not completed at this time so they will be reported in the next annual report.

3.5.2 BMP Compliance

MCINCR - MCBQ is in partial compliance with this BMP and actively working toward full compliance with a contract in place. Although all stormwater BMPs were not inspected this reporting cycle, all new stormwater BMPs that were installed during this reporting cycle were inspected once their installation was completed and placed into operation.



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3.5.3 BMP Appropriateness

This BMP is appropriate for the minimum control measures.

3.5.4 Goal Progress

This goal is ongoing and dependent on the number of active construction activities. Additional goals will lead to greater consistency in controlling construction site runoff.

3.6 POLLUTION PREVENTION/GOOD HOUSEKEEPING

The Pollution Prevention/Good Housekeeping minimum control measures consist of BMPs that focus on training and on the prevention or reduction of pollutant runoff from municipal operations.

3.6.1 Current BMP and Goal

Good housekeeping procedures are outlined in the SWPPP. These procedures include vehicle and aircraft maintenance, fueling operations, material storage, painting procedures, outdoor maintenance, and recycling.

3.6.2 BMP Compliance

MCINCR - MCBQ is currently in compliance with this BMP.

3.6.3 BMP Appropriateness

This BMP is appropriate for the minimum control measures because it will lead to improved operations and reductions in storm water contamination. Currently NREA has a contract to review and update any housekeeping measures and practices that may need updating.

3.6.4 Goal Progress

The Pollution Prevention/Good Housekeeping goal is ongoing.



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4. ADDITIONAL INFORMATION COLLECTED

This section is a summary of the results of the information collected to assist the Water Program Manager in implementing the MS4 program.

4.1 PUBLIC EDUCATION AND OUTREACH

Additional training for Base personnel and construction site personnel is being planned to incorporate the changing landscape of storm water management and Low Impact Design (LID). NREA also plans to provide additional general stormwater awareness training to reach more of the ever changing Marine population that resides on MCINCR - MCBQ.

4.2 ILLICIT DISCHARGE DETECTION AND ELIMINATION

A comprehensive Illicit Discharge Survey was conducted in November 2017; however results have not been provided yet. There are no known interconnections. Also in November 2017, 287 stormwater outfalls were inspected and to date the findings have not been reported due to additional dye testing needed to be completed in areas with restricted access.

4.3 CONSTRUCTION SITE STORM WATER RUNOFF CONTROL

Between July 2017 and June 2018, Quantico had a total of 8 active permitted construction sites, totaling approximately 54 acres of disturbed area. These sites are listed in the following table and defined by the site name, disturbed acres and their Hydrologic Unit Code (HUC).



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Active Construction Sites July 2017 - June 2018	
Site Name	Disturbed Acres
OCS Electrical	3.1
Larsons Gym Demo	3.69
Purvis Road Electrical	0.68
Middle School High School	19.15
Russell Road Widening, Phase III	15.2
Air Traffic Control Relocation	2.23
TECOM Academic Building	10.18
Total Acres	54.23

4.4 POST CONSTRUCTION SITE STORM WATER MANAGEMENT

There are no BMPs for the MS4 “Mainside” portion of the Base during this reporting cycle.



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5. BMPs AND GOALS FOR 2018-2019

The following section identifies the MS4 BMPs and their associated timeframe for implementation. MCINCR - MCBQ is not relying on other government entities or participating in any qualifying local programs to satisfy any of its permit obligations. MCINCR - MCBQ goals remain the same with the exception of using hard print, the base newspaper, to achieve Goal #1. Web based publishing from Base Social Media will be used as a substitute. Staff continually improves and expands the BMPs and other initiatives. Some of these initiatives are: adding more public involvement to the education program, providing additional on-site awareness training presentations to contractors and base personnel, and publishing stormwater awareness articles which facilitate knowledge of stormwater issues.

In keeping with the Chesapeake Bay Strategic Plan Initiatives, the installation intends to continue identifying and prioritizing stormwater BMP retrofits for our older structures dating to pre-1995 to help in meeting our waste load allocations in the future. MCINCR - MCBQ, with other DoD facilities located in the local area, will be involved in the Total Maximum Daily Load (TMDL) reduction program; however, this effort is dependent on available resources. MCINCR – MCBQ is not required to have a TMDL action Plan, the Base is currently operating under the old permit where it is not required. However, MCB Quantico is included in the PCB TMDL for Anacostia and Potomac Tidal Portions. Anticipating the new permit requirements, MCINCR – MCBQ will submit BMPs through the BMP Clearinghouse. No control measures were implemented during this reporting that are located within our MS4 permit that would require such submittals. Three to five new locations are anticipated next year to have BMPs within the MS4 area.

MCINCR – MCBQ has identified three high priority water quality issues that are as follows: proper trash and litter disposal emphasizing on hazards associated with stormwater pollution, construction site runoff control with emphasis on reducing stormwater pollution and proper cleanup and maintenance of outdoor areas regarding activities such as mowing the lawn with a focus on reducing nutrient loadings.