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April 26, 2017

Carmen R. Guerrero-Pérez
Director
United States Environmental Protection Agency (EPA)
Caribbean Environmental Protection Division
City View Plaza II Suite 7000
Guaynabo, PR 00968-8069

NOTICE OF INTENT NPDES INDIVIDUAL PERMIT NUM. PRR040056
MUNICIPALITY OF BARRANQUITAS
MUNICIPAL SEPARATE STORM SEWER SYSTEMS (MS4)

Dear Ms. Guerrero–Pérez:

As requested and in compliance with the Clean Water Act and the NPDES Storm Water Phase II Final Rule, we are submitting the Municipality of Barranquitas Notice of Intent (NOI) for the NPDES Permit.

If you need further information, please contact Eng. Juan H. Medina at 787-857-6545 or by email at jmedina@barranquitas.pr.gov

Cordially,

Francisco López López
Mayor
Municipality of Barranquitas

BARRANQUITAS
Municipio Autónomo

Notice of Intent
National Pollutant Discharge Elimination System
(NPDES)
2016 Small MS4 General Permit
Individual Permit Num. PRR040056
EPA Region 2, Puerto Rico
Municipality of Barranquitas

Table of Contents

**United States Environmental Protection
Agency National Pollutant Discharge
Elimination System**
Notice of Intent (NOI) for coverage under the Small Municipal
Separate Storm Sewer System (MS4) General Permit
(PRR040000) for Puerto Rico

Part A. General Information

1. Name of Municipality or Organization: <u>Municipality of Barranquitas</u>

2. Type: ☐ Federal ☐ State ☑ Municipality ☐ Other: _____

3. Existing Permittee: ☑ Yes ☐ No   If yes, provide EPA NPDES Permit Number: <u>P R R 0 4 0 0 5 6</u>

4. Location Address:

    a. Street: <u>25 Calle Muñoz Rivera</u>

    b. City: <u>Barranquitas</u>   State: <u>PR</u> Zip Code: <u>00794-0250</u>

5. Mailing Address:

    a. Street: <u>PO BOX 250</u>

    b. City: <u>Barranquitas</u>   State: <u>PR</u> Zip Code: <u>00794-</u>

6. Telephone Number: <u>787-857-2065</u>   <u>0250</u> Fax: <u>787-857-4946</u>

7. E-mail: <u>jmedina@barranquitas.pr.gov</u>

8. Standard Industrial Classification (SIC) Code (see instructions for common codes):   <u>9919</u>

9. Latitude: (use the format provided.)   Longitude: (use the format provided.)
   2.2.4.2 *Approximate center of the regulated portion of the MS4.*

   <u>18</u> ° <u>11</u> ′ <u>4.065</u> ″ N (degrees, minutes, seconds)   <u>66</u> ° <u>18</u> ′ <u>36.01</u> ″ W (degrees, minutes, seconds)

                                Or

   _____._____ ° N (degrees   _____._____ ° W (degrees decimal)
   decimal)

Part B. Primary MS4 Program Manager Contact Information

1. Name: <u>Juan H. Medina, PE PPL</u>

2. Position Title: <u>Land Ordinance & Permits Director</u>

3. Stormwater Management Program (SWMP) Location (web address or physical location): <u>Land Ordinance & Permits Office and the Municipal Library</u>

4. Mailing Address:

    a. Street: <u>PO BOX 250</u>

    b. City: <u>Barranquitas</u>   State: <u>PR</u>   Zip Code: <u>00794-0250</u>

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5. Telephone Number: ___787-857-6545___

6. E-mail: ___jmedina@barranquitas.pr.gov___

Part C. Eligibility Determination

1. Endangered Species Act (ESA) determination complete? ☑ Yes ☐ No

    a. Eligibility Criteria (check all that apply): ☑ A ☐ B   ☐ C   ☐ D   ☐ E   ☐ F

2. National Historic Preservation Act (NHPA) determination complete?   ☑ Yes ☐ No

    a. Eligibility Criteria (check all that apply): ☐ A ☑ B   ☐ C   ☐ D

Part D. Map/Boundaries

1. MS4/Organization Description of regulated boundaries (narrative):

   The Municipality of Barranquitas is part of the San Juan, PR Urbanized Area-Southwest portion of the storm water entities defined by the 2010 US Census. The Municipality comprises eight wards; they are: Barrancas, Barranquitas Pueblo, Cañabón, Helechal, Honduras, Palo Hincado, Quebrada Grande, and Quebradillas. Its main rivers are Piñonas, Usabón, Río Hondo, Barranquitas, La Plata, and Río Grande de Manatí. Its topography varies from 300 meters in the southeast up to a maximum of 800 meters in the west. Torrecilla peak is the highest point of the Municipality. Barranquitas is home of the largest waterfall in Puerto Rico and largest canyon in the Caribbean. The San Cristóbal Canyon is 9 km long and 750 feet deep, with two rivers flowing through it, the Usabón and the Barranquitas Rivers.

   The waterbodies that cross through the Municipality of Barranquitas are sub-watersheds of the La Plata River (PRER10A3), Río Hondo (PRER1OH), and Río Usabón (PRER 10I1) and the sub-watersheds of the Río Grande de Manatí (PRNR8A3); Río Bauta (PRNR8C2), Río Orocovis (PRNR8EI) and Río Botijas (PRNR8E2).

   The Municipality of Barranquitas has a total area of 34.28 square miles. The storm sewer infrastructure serves only the Barranquitas Pueblo. Barranquitas Pueblo has a total area of O.77 square miles and a population density of 3,197 habitants per square mile.

   Barranquitas' storm sewer system is mostly superficial, except for some gutter inlets with grates and curb inlets which discharge in the Usabón River. The Urban Zone storm water flows into two waterbodies; at the north of the town center into the Usabón River and at the south into a creek that also flows into Usabón River.

2. Location Map/Boundaries. A location map must be attached showing the pertinent city, town, wards,

   or boundaries, the boundaries of the Small MS4, including surface water body(s), and the

   "urbanized area" (UA) when applicable.

       Is map attached?   ☑ Yes ☐ No

Part E. MS4 Infrastructure (if covered under the 2006 general permit)

1. Estimated Percent of Outfall Map Complete? (Section 4.2.3 of 2006 general permit):___100%

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a. If 100% of 2006 requirements are not met, enter an estimated date of completion: _____

(MM/DD/YYYY)

b. Web address where MS4 map is published: Included with the NOI _____

If outfall map is unavailable on the internet an electronic or paper copy of the outfall map must be included with NOI submission.

Part F. Bylaw/Ordinance Development (if covered under the 2006 general permit)

1. Illicit Discharge Detection and Elimination (IDDE) authority adopted?   ☑ Yes ☐ No

    a. Effective Date or Estimated Date of Adoption: 12/18/2014

    (MM/DD/YYYY) Construction/Erosion and Sediment Control authority adopted?   ☑ Yes ☐ No

    b. Effective Date or Estimated Date of Adoption: 10/30/2014

    (MM/DD/YYYY)

2. Post-Construction Stormwater Management adopted?   ☑ Yes ☐ No

    a. Effective Date or Estimated Date of Adoption: 10/30/2014

    (MM/DD/YYYY)

Part G. Receiving Waters

List the names of all surface waterbody segments to which your MS4 discharges. For each waterbody segment, please report the number of outfalls discharging into it and, if applicable, any impairments.

Waterbody Segment that receives flow from	Number of Outfalls into receiving	Have any monitoring been performed to	List of Pollutant(s) causing impairment (if	List of TMDL Pollutant (s) (if any)
Río Usabón (PRER10I1)	Not Known	No	Fecal Coliforms	
Río La Plata (PRER10A)	Not Known	No	Turbidity, Cyanide, Copper, Lead, Mercury, Low Dissolved Oxygen, pH, Surfactants,	Fecal Coliforms
Río Hondo (PRER11A)	Not Known	No	Low Dissolved Oxygen, Surfactants, Other Inorganic, Fecal Coliforms	Fecal Coliforms

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Part H. Summary of Stormwater Management Program (SWMP) under the 2006 Small MS4 General Permit

MCM-Public Education & Outreach

BMP Description or BMP ID (e.g. MCM-1)	Goal Achieved? (Yes/No)	Continued in next permit cycle? (Yes/No)	Who was the targeted audience? Explain reason for not achieving goal.	Modification(s) to goals or BMP for next permit cycle
Review, update and distribute educational material	Yes	Yes	General public, municipality employees, students (elementary to superior)	Update documentation as needed and schedule distribution
SWMP Webpage	No	Yes	Population with access to internet. Coordination with the required personal in charge of updating and maintaining the Municipality webpage	Schedule and programing of the web page
Community meetings, educative talks and presentations	Yes	Yes	General public, municipality employees, students (elementary to superior)	To be continued the next permit cycle
Environmental Education Program	Yes	Yes	School age students, business owners, municipal employees, and general community groups	To be continued the next permit cycle

MCM- Public Involvement and Participation

BMP Description or BMP ID (e.g. MCM-1)	Goal Achieved? (Yes/No)	Continued in next permit cycle? (Yes/No)	Who was the targeted audience? Explain reason for not achieving goal.	Modification(s) to goals or BMP for next permit cycle
Enrollment and Participation in community service educational & environmental activities	No	Yes	Local communities, students (intermediate to superior), municipality employees. Lack of immediate funding to perform the actions required has delayed the execution of this section	Identify funds and coordinate actions with the organization
Public Notice of reviewed SWMP	No	Yes	General public	Once the SWMP is reviewed and updated, the public notice will be published
SWMP implementation	Yes	Yes	General community including students, municipal employees, homeowners, business owners, environmental organizations	To be continued on the next permit cycle
Mayor Annual Message	Yes	Yes	General public	Updated status reports. To be continued on the next permit cycle

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BMP Description or BMP ID (e.g. MCM-1)	Goal Achieved? (Yes/No)	Continued in next permit cycle? (Yes/No)	Who was the targeted audience? Explain reason for not achieving goal.	Modification(s) to goals or BMP for next permit cycle
Volunteer Events	Yes	Yes	General community including students, municipal employees, homeowners, business owners, environmental organizations	Incorporate more organizations (NGOs & private). Expand & enhance activities
Watershed Monitoring Program	No	Yes	Volunteers, local communities, students (intermediate to superior), municipality employees. Lack of immediate funding to perform the actions required has delayed the execution of this section	Design of SOP & identification of funds and coordinate actions with the organization

MCM- Illicit Discharge Detection and Elimination

BMP Description or BMP ID (e.g. MCM-1)	Goal Achieved? (Yes/No)	Continued in next permit cycle? (Yes/No)	Who was the targeted audience? Explain reason for not achieving goal.	Modification(s) to goals or BMP for next permit cycle
Ordinance & Regulatory review and update	Yes	Yes	General public	Reviewed and updated ordinance and implementation
Storm Sewer Mapping and identification	Yes	Yes	Public Works Staff, Emergency Management Staff, and the Municipal Police	Identification and update inventory of storm sewer system on the next permit cycle
IDDE Plan Implementation	Yes	Yes	Public Works Staff, Emergency Management Staff, and the Municipal Police	Update requirements, procedures, and approaches and develop municipality webpage for public information
Environmental Education Program	Yes	Yes	Public Works Staff, Emergency Management Staff, and the Municipal Police	To be continued on next permit cycle

MCM- Construction Site Stormwater Runoff Control

BMP Description or BMP ID (e.g. MCM-1)	Goal Achieved? (Yes/No)	Continued in next permit cycle? (Yes/No)	Who was the targeted audience? Explain reason for not achieving goal.	Modification(s) to goals or BMP for next permit cycle
Ordinance & Regulatory review and update	Yes	Yes	General public, contractors, developers, project's operators and owners	Reviewed and updated ordinance and implementation
Sediment and Erosion Control Program	Yes	Yes	General public, contractors, developers, project's operators and owners	Updated and reviewed BMP design standards
Construction Plan Review Procedures	Yes	Yes	Contractors, developers, project's operators and owners	Reviewed site design and planned operations at the construction site

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BMP Description or BMP ID (e.g. MCM-1)	Goal Achieved? (Yes/No)	Continued in next permit cycle? (Yes/No)	Who was the targeted audience? Explain reason for not achieving goal.	Modification(s) to goals or BMP for next permit cycle
Procedures for Pre-construction Review	Yes	Yes	Contractors, developers, project's operators and owners	Reviewed procedures for environmental requirements
Construction Site Inspections and Enforcement	Yes	Yes	Contractors, developers, project's operators and owners	Reviewed procedures for site inspection and enforcement of control measures
Low impact design and green infrastructure Plan Review	No	Yes	Municipality staff, contractors, developers, project's operators and owners	Design of the SOP for LID. To be continued on the next permit cycle
Construction site inventory and documentation	Yes	Yes	Public Works Staff, Land Ordinance & Permits Office	Updated inventory
MS4 Training	Yes	Yes	Municipality staff	To be continued on next permit cycle

MCM- Post-Construction Stormwater Management in New Development and Redevelopment

BMP Description or BMP ID (e.g. MCM-1)	Goal Achieved? (Yes/No)	Continued in next permit cycle? (Yes/No)	Who was the targeted audience? Explain reason for not achieving goal.	Modification(s) to goals or BMP for next permit cycle
Ordinance & Regulatory review and update	Yes	Yes	General public, contractors, developers, project's operators and owners	Reviewed and updated ordinance and implementation
Stormwater control or BMPs	Yes	Yes	Municipality staff, contractors, developers, project's operators and owners	Reviewed and updated requirement of the local regulations and/or the USEPA Small MS4 General Permit
Post-construction Site Inspections and Enforcement	Yes	Yes	Municipality staff, contractors, developers, project's operators and owners	Update documentation as needed

MCM- Good Housekeeping and Pollution Prevention in Municipal Operations

BMP Description or BMP ID (e.g. MCM-1)	Goal Achieved? (Yes/No)	Continued in next permit cycle? (Yes/No)	Who was the targeted audience? Explain reason for not achieving goal.	Modification(s) to goals or BMP for next permit cycle
Operations & Maintenance Programs	Yes	Yes	Municipality staff	Update documentation and procedures including trainings and workshops
Stormwater Pollution Prevention Plan (SWPPP)	Yes	Yes	Municipality staff	Update and reviewed inventory, inspections and trainings/workshops
SWMP Annual Report	Yes	Yes	General public	To be continued on next permit cycle

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Part I. 2016 Stormwater Management Program (SWMP) Summary

MCM-1 Public Education and Outreach

BMP Description or BMP ID (e.g. MCM-1)	Education Topic (Identify the issue your BMP is educating the public about.)	Outreach Method (Describe the method used to convey this topic, e.g. mailing, events, school,	Measurable Goal (What is the end result of this program? What indicator will determine the goal has been met? (e.g., number mailing sent, people at event, class participation, etc.)
Review and update stormwater educational material	Educate public employees, businesses owners, and the public of hazards associated with the illegal discharges, improper disposal of waste, and the impact that stormwater discharges can have on local waterways, as well steps that the public can take to	Handouts and brochure distribution, workshops, trainings and conferences. Also, available at the Municipal Library and the Land Ordinance & Permits Office	Reviewed and updated existing stormwater educational material
Review and update recycling educational material	Educate public employees, businesses owners, and the general public on the benefits of recycling and reduction of contaminants	Handouts and brochure distribution, workshops, trainings and conferences. Also, available at the Municipal Library and the Land Ordinance & Permits Office	Reviewed and updated existing recycling educational material
Gather new educational material from state and federal agencies	Educate public on current and new regulations and BMPs from other federal and state environmental agencies, such as ADS, EQB and EPA	Handouts and brochure distribution, workshops, trainings and conferences. Also, available at the Municipal Library and the Land Ordinance & Permits Office	Compilation and updated educational & environmental material
Enrollment and Participation in the International Coastal Cleanup and/or "A Toda Costa" Program	Educational activities targeting pollutants of concern, based on the 303 (d) listed waters	Field work with volunteers including staff members, schools	Enrollment and Participation in the International Coastal Cleanup and in the A Toda Costa Program or similar
Ordinance or Policy Requiring New hire and Existing Municipal Employees Stormwater Pollution Prevention Training and Annual Refresher	All municipality employees (current and new hire) refresher	Workshops and training sessions	Total number of municipal employees trained in Activity Specific Stormwater Pollution Prevention

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BMP Description or BMP ID (e.g. MCM-1)	Education Topic (Identify the issue your BMP is educating the public about.)	Outreach Method (Describe the method used to convey this topic, e.g. mailing, events, school, ...)	Measurable Goal (What is the end result of this program? What indicator will determine the goal has been met? (e.g., number mailing sent, people at event, class participation, etc.)
Environmental activities (educative talks, trainings, workshops and meeting) conducted for the target audience	Employees, businesses owners, students, and the general public education on the general implementation and BMPs of the SWMP	Community meetings, educative talks and presentations to schools; training and workshops to municipal staff and Municipal Offices Directors	Total number of environmental activities (educative talks, trainings, workshops and meeting) conducted focused in the target audience
Distribute general stormwater pollution prevention and recycling educative material	BMPs for prevention of pollutants of concern, based on the 303 (d) impaired waters list	Handouts and brochure distribution, workshops, trainings and conferences. Also, available at the Municipal Library and the Land Ordinance & Permits Office	Total number of target audience receiving educational material
Conduct educational activities in 100% of schools	Educational activities for all students, faculty and administrators, targeting pollutants of concern, based on the 303 (d) listed waters	Workshops, presentation & field visits	Conducting educational activities in 100% of schools 2 times per year. Total number of students who receive storm water pollution prevention information during activities of the Environmental Clubs in Schools
Conduct training/workshop to the municipal staff about activities specific BMPs	All municipality employees (current and new hire) educational targeting specific BMPs activities	Workshops and training sessions	Total number of municipal employees trained in Activity Specific Stormwater Pollution Prevention

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Part I. 2016 Stormwater Management Program (SWMP) Summary (continued)

MCM-2 Public Involvement and Participation:

BMP Description or BMP ID (e.g. MCM-1)	Program Description (Describe the program and how it will inspire public participation, e.g. special events, volunteer sampling and monitoring efforts, household hazardous waste recycling, etc.)	Measurable Goal (What is the end result of this program? What indicator will determine the goal has been met? (e.g., participation, amount of sampling performed, waste collected, etc.)
Have SWMP and Annual Reports available for the public in the Library and the Land Ordinance & Permits Office	Create a page under the Municipality official page to publish all related materials	Once is published on the web page, the number of people signing to read the SWMP
Have SWMP available for downloading in the Municipal Webpage	Create a page under the Municipality official page to publish all related materials	Once is published web page, the number of people downloading the SWMP
Presentation of SWMP and Annual Reports in Mayor's Annual Municipal Budget Presentation	Annual report to document the progress of the tasks and obtain feedback from the community and relevant agencies	Once available at the Municipal Library, Land Ordinance & Permits Office and published web page, the number of people accessing the document and number of presentations
Enrollment and Participation of volunteers in the International Coastal Cleanup	Educational and environmental activity that will address storm water quality improvement	Total activities performed during the permit cycle
Enrollment and Participation of volunteers in the "A Toda Costa" Program	Educational and environmental activity that will address storm water quality improvement	Total activities performed during the permit cycle
Coordinate river/stream cleanups activities with volunteers	Activity to impact and remove possible contaminants from our water bodies. This will incorporate all community members including the municipality staff.	Total number of volunteers participating and cleanup of all streams and rivers inside the MS4 area within the permit cycle
Coordinate recycling activities at communities with volunteers	Educational activity that will address the reduction of waste material and prevent it from reaching the water bodies.	Total number of activities performed during the permit cycle and total number of volunteers
Coordinate storm drain maintenance activities with volunteers and municipal staff	Community involvement trough bi-annual activities	Amount of storm drains clean of all debris and clearly identified and the total number of volunteers and municipal staff member involved
Develop of SOP for Watershed Monitoring Program	Development of a Standard Operational Procedure (SOP) on how to perform sampling activities	Approval of the SOP
Coordinate a training for the Watershed Monitoring Program for volunteers and municipal staff	Design trainings on how to apply the SOP guidance	Total number of volunteers and municipal staff trained

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BMP Description or BMP ID (e.g. MCM-1)	Program Description (Describe the program and how it will inspire public participation, e.g. special events, volunteer sampling and monitoring efforts, household hazardous waste recycling, etc.)	Measurable Goal (What is the end result of this program? What indicator will determine the goal has been met? (e.g., participation, amount of sampling performed, waste collected, etc.)
Coordinate activities with volunteers and Municipal staff for the Watershed Monitoring Program implementation	Activities to collect and analyze water quality samples following the SOP guidance	Total number of activities and total number of volunteers/municipality staff

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Part I. 2016 Stormwater Management Program (SWMP) Summary (continued)

MCM-3 Illicit Discharge Detection and Elimination:

BMP Description or BMP ID (e.g. MCM-1)	Program Description (Describe the program and how it will indentify and remove illicit connections from the MS4, e.g. new regulations, investigation practices, removal of illicit connections, etc.)	Measurable Goal (What is the end result of this program? What indicator will determine the goal has been met? (e.g., adoption of bylaws/ordinances, amount of investigation performed, identified and removed illicit connections, etc.)
Develop the SOP to update the Stormwater Sewer System Maps bi-annually	The storm sewer system maps will be updated regularly by the Public Works Office and the Land Ordinance & Permits Office Staff	Development of a SOP to assure the bi-annual update of the Stormwater Sewer System Maps
Develop an IDDE Implementation Team	Municipal IDDE implementation team members will be named and assigned to work in the IDDE Plan implementation	Development of an IDDE Implementation Team
Conduct Monthly Field Inspection	The Municipality will name an employee from the Public Works department, and one employee from the Emergency Management Department to conduct the field inspections to detect and eliminate illicit discharges as part of the implementation of the IDDE Plan	Monthly field inspection
Develop the IDDE ERP	Development of an Enforcement Response Plan that will be included as part of the IDDE plan	Development of an ERP
Develop the IDDE interactive section in the Webpage	Interactive section under the SWMP in which the public will be able to summit complaints about illicit discharges	Development of the IDDE section in the webpage
Develop IDDE training/workshop far Municipal Employees	An Environmental Education Program will be developed to address the pollutant of concerns. The Program will emphasize in Sanitary Septic Tanks design, construction, and maintenance best practices	Total number of people accessing or providing illicit discharges comments in the Municipal Website
Coordinate IDDE training/workshop far new hires	The Stormwater Management Plan Implementation Coordinator will coordinate with the Human Resources Department director to develop a Municipal ordinance or policy requiring all the new hire municipal employees take a Stormwater Pollution Prevention Training	100% of new hires takes the IDDE training
Coordinate IDDE refresher training for regular municipal employees	Employees Stormwater Pollution Prevention Training annual refresher	100% of Regular employees takes the IDDE training refresher on an annual basis

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Part I. 2016 Stormwater Management Program (SWMP) Summary (continued)

MCM-4 Construction Site Stormwater Runoff Control:

BMP Description or BMP ID (e.g. MCM-1)	Program Description (Describe the program and how it will help control stormwater runoff at construction sites, e.g. new regulations, construction practices, inspection protocols, etc.)	Measurable Goal (What is the end result of this program? What indicator will determine the goal has been met? (e.g., adoption of bylaws/ordinances, amount of inspections performed and sites actively regulated, etc.)
Review and Update the Construction Ordinance	Review and update the Construction Ordinance if necessary	Review and update Ordinance
Development of a Public and Private Construction Projects Inventory	Inventory of all permitted active public and private construction sites, including evidence of NOI submittal, SPPP or CES Plan	Updated inventory
Review and Update the CES Plan Revision SOP	Control of Erosion and Prevention of Sedimentation Plan (CES Plan) revision of Standard Operational Procedures	Updated CES plan revision SOP
Review and Update the Construction Project Inspection and Noncompliance Notification SOP	Annual revision to incorporate any new requirement specified in the next General Permit	Updated of the project inspection & Noncompliance Notification SOP
Develop a Public Comments Receipt, Evaluation and Prioritization SOP	Procedures to receipt, evaluate and manage information submitted by the general community regarding noncompliance situations identified in construction projects	Development of an SOP for receipt, evaluate and prioritize information submitted by the public
Develop a Site plan review for LID SOP	Create procedures to evaluate the use of low impact design (LID) and green infrastructure	Development of a SOP for site plan review for LID
Conduct Plan Review Staff Trainings	Maintain and implement site plan review procedures that describe which plans will be reviewed as well as when an operator may begin construction	Total number of municipal staff trained in Plan Review
Conduct Field Inspection Staff Trainings	Staff will be trained to recognize lack of erosion and sediment control BMPs, ordinance violations and to report noncompliance observations	Total number of municipal staff trained in project inspection procedure
Conduct Construction Operators Training/Workshops	Training and/or workshops that will include appropriate BMPs for the conditions at the construction site	Total number of contractors, developers, project's operators and owners trained
Conduct public & private projects plan review	public and private construction site inventory checklist, for ensuring the compliance with review Plans	Total number of Plans reviewed for adequacy
Conduct public & private projects inspection	Inspections of all construction projects	Total number of inspections conducted in construction projects

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Part I. 2016 Stormwater Management Program (SWMP) Summary (continued)

MCM-4 Post-Construction Stormwater Management in New Development and Redevelopment:

BMP Description or BMP ID (e.g. MCM-1)	Program Description (Describe the program and how it will control stormwater runoff from properties after they are developed, e.g. new regulations, practices, or resources for contractors to use Low Impact Development (LID), etc.)	Measurable Goal (What is the end result of this program? What indicator will determine the goal has been met? (e.g., adoption of bylaws/ordinances, amount of implemented practices, development of capacity building resources, etc.)
Review and Update the Post-Construction Ordinance	Regulatory mechanism to address post-construction runoff from new development and redevelopment projects to the extent allowable under Commonwealth of Puerto Rico and local law and local development standards. Post-construction Ordinance will be revised to incorporate this requirement	Review and Update Post-Construction Ordinance
Develop Construction Stormwater Pollution Prevention Educational Material, and compiling of Agencies Educational Material to be distributed to Operators	Compilation of educational materials from Agencies and the development of additional materials regarding and explaining the reach of the Ordinance	Production and distribution of the educational material.
Revise BMPs inspections SOP	Revision and update of the BMPs Standard Operational Procedures during the term of the permit, to incorporate any change or improvement	Revised and updated SOP for BMPs
Conduct BMPs Inspection Staff Trainings	Municipal staff training for the BMPs implementation and updates	Total staff members trained
Conduct LID Evaluation Staff Training	Municipal staff training for the LID implementation and updates	Total staff members trained
Conduct contractors, developers, operators and owners BMPs Training/Workshops	Implementation, Operation and Maintenance of BMPs to Manage and Control Stormwater	Total number of trainings and workshops performed
Conduct Maintenance and Operation Plans review	Plan procedures review in order to keep them up to date and compliance.	Updated Maintenance & Operations Plans
Conduct inspections in municipal developments or re-developments	Construction site inspections, for ensuring the compliance with BMPs	Total amount of inspections performed

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BMP Description or BMP ID (e.g. MCM-1)	Program Description (Describe the program and how it will control stormwater runoff from properties after they are developed, e.g. new regulations, practices, or resources for contractors to use Low Impact Development (LID), etc.)	Measurable Goal (What is the end result of this program? What indicator will determine the goal has been met? (e.g., adoption of bylaws/ordinances, amount of implemented practices, development of capacity building resources, etc.)
Conduct inspections in private developments or re-developments	Construction site inspections, for ensuring the compliance with BMPs	Total amount of inspections performed
Publish Post-construction Information on Website	Publication of all related documentation on the SWMP web page for public access	Publication on the web page, number of visitors and downloads

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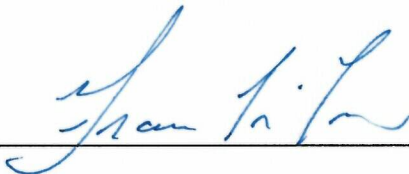## Part I. 2016 Stormwater Management Program (SWMP) Summary (continued)

MCM-6 Good Housekeeping and Pollution Prevention in Municipal Operations:

BMP Description or BMP ID (e.g. MCM-1)	Program Description (Describe the program and how it will mitigate stormwater runoff at municipal properties ort through municipal activities, e.g. installation of structural stormwater controls on the municipal properties, new practices to reduce pollutant exposure to rain events, runoff management, trainings, etc.)	Measurable Goal (What is the end result of this program? What indicator will determine the goal has been met? (e.g., structural BMPs installed, SOPs developed and implemented, etc.)
Inventory revision and update of all municipality facilities	Annual update and inventory of all municipal facilities and determine priority rank for intervention	Review of municipal facilities inventory and prioritization list
Facilities on-site inspections	Facilities inspections to evaluate aspects that will affect priority assignment.	Number and percentage of facilities inspections completed
Operation & Maintenance (O&M) Programs	The Municipality has developed written operations and maintenance procedures for the municipal activities that may have the potential of polluting stormwater and shall ensure staff training to meet the developed procedures	Update and reviewed municipal facilities O&M Program
O&M Program implementation reports	.Report and documentation of all inspections followed by the implementation and final resolutions and compliance	Reports of municipal facilities O&M Program implementation
Municipal owned or operated facilities requiring SWPP	Inventory of all municipal owned or operated facilities such as: maintenance garages, public works yards, transfer stations, and other waste handling facilities where pollutants are exposed to stormwater	Updated inventory of facilities requiring a SWPPP
Municipal Staff Training	continuous orientation and training regarding stormwater BMPs	Number of municipal staff trained in activity or facility specific BMPs
Basic maintenance activities	Perform, report and documentation of infrastructure maintenance. This will include: street and MS4 cleaning, parks management and vegetation control	Quarterly reporting of inlets, catch basins and storm drain pipes cleaning. Volume or weight of sediment and debris removed and properly disposed

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Part J. Application Certification and Signature

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

Signature of Mayor/Elected Official: _____

Print Name of Mayor/Elected Official: Francisco López López _____

Title: Mayor _____   Date: 4/25/17 _____

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APPENDIX A: Location Map

Municipality of Barranquitas-Location Map

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APPENDIX B: Storm Sewer Outfall Map

BARRANQUITAS

- MS4 Infrastructure Map -
Urban Area of Barranquitas

September 2014

0 62.5 125   250   375   500
Meters

Legend

- Grate Inlet
- Curb Inlet
- Head Wall
- Box Culvert
- Manhole
- Discharge
- Curb
- Gutter
- Elevation Points
- Curbs
- Pipe
- Urban Area - EPA
- Rivers & Streams

TETRA TECH