



Hon. Víctor M. Ortiz Díaz  
Alcalde

September 8, 2016

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U.S. EPA

Eng. Sergio Bosques  
Regional Storm Water Coordinator  
Caribbean Environmental Protection Division  
City View Plaza II – Suite 7000  
#48 Rd. 165 km 1.2  
Guaynabo, PR 00968-8069

**NOTICE OF INTENT-NOI- MUNICIPALITY OF GURABO,  
FOR STORM WATER DISCHARGES FROM SMALL MS4s IN URBANIZED AREAS**

As part of the provisions of the Clean Water Act, Section 402 (p), requires that storm water discharges, associated with municipal separate storm sewer system (MS4s) in urbanized areas, to waters of the US must be authorized by a National Pollutant Discharge Elimination System (NPDES) permit. In order to comply with this requirement, we are submitting our Notice of Intent for the NPDES Permit no. PRR040017. The updated SWMP document will be modified in the next 6 months as required in Section 1.11 of the 2016 signed permit, and pursuant to Title 40, Part 122.34 Subpart B, or Permit Application and Special NPDES Program Requirements.

The Municipality of Gurabo has the intention of comply with the Permit's provisions and EPA requirements. In you need additional information, do not hesitate to contact us at the Mayor's Office at 787-712-1100 or via e-mail at [wfigueroa@gurabopr.com](mailto:wfigueroa@gurabopr.com)

Sincerely,



Hon. Víctor Ortiz Díaz  
Mayor

Enclosure  
Notice of Intent

**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 (PRR040017) for Puerto Rico

**Part A. General Information**

1. Name of Municipality or Organization: Municipality of Gurabo
2. Type:  Federal  State  Municipality  Other: \_\_\_\_\_
3. Existing Permittee:  Yes  No If yes, provide EPA NPDES Permit Number: P R R 0 4 0 0 1 7
4. Location Address:
  - a. Street: Bo. Rincon Carretera #189 Km 6.5
  - b. City: Gurabo State: PR Zip Code: 00778
5. Mailing Address:
  - a. Street: P.O. Box 3020
  - b. City: Gurabo State: PR Zip Code: 00778
6. Telephone Number: 787-712-1100 Fax: \_\_\_\_\_
7. E-mail: wfigueroa@gurabopr.com
8. Standard Industrial Classification (SIC) Code (see instructions for common codes): 9199
9. Latitude: (use the format provided.) Longitude: (use the format provided.)  
2.2.4.2 *Approximate center of the regulated portion of the MS4.*  
-    °    '    " N (degrees, minutes, seconds)    -    °    '    " W (degrees, minutes, seconds)  

Or

18.254613° N (degrees decimal)                      -65.972990 ° W (degrees decimal)

**Part B. Primary MS4 Program Manager Contact Information**

1. Name: Wilca Figueroa
2. Position Title: Planning and Development Director
3. Stormwater Management Program (SWMP) Location (web address or physical location):  
Bo. Rincon Carretera #189 Km 6.5 Gurabo, PR 00778
4. Mailing Address:
  - a. Street: P.O. Box 3020
  - b. City: Gurabo State: PR Zip Code: 00778

5. Telephone Number: 787-712-1100

6. E-mail: wfigueroa@gurabopr.com

### 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):

Gurabo Municipality territorial extension is approximately 28 square miles. Gurabo's population is estimated at 45,369 (2010 census). The municipality of Gurabo is composed of 10 wards, Celada, Gurabo city center, Hato Nuevo, Jaguar, Jaguas, Mamey, Masa, Navarro, Quebrada Infierno (Santa Rita), and Rincon. Gurabo Municipality, operates a municipal separate storm sewer system located Gurabo, Puerto Rico. Gurabo, is located in the east central region of Puerto Rico. Gurabo is defined by EPA as an urbanized area based on the 2010 Census. Bordering Municipalities: Trujillo Alto to the north, San Lorenzo to the south, Caguas to the west, and Carolina and Juncos to the east. All the bodies of water flowing through Gurabo are part of the Rio Grande de Loíza watershed. Except those going through Masa and Santa Rita Wards, all streams in Gurabo are part of Carraízo Reservoir watershed. The main rivers passing through Gurabo municipal territory are the Rio Grande de Loíza, and Gurabo River, which is the main tributary of the Rio Grande de Loíza and supplies water to the Carraízo Reservoir.

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*): 50 %
- a. If 100% of 2006 requirements are not met, enter an estimated date of completion: 12/30/2017  
(MM/DD/YYYY)
- b. Web address where MS4 map is published:  
*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: 05/01/2015  
(MM/DD/YYYY)

2. Construction/Erosion and Sediment Control authority adopted?  Yes  No

a. Effective Date or Estimated Date of Adoption: 05/01/2015  
(MM/DD/YYYY)

3. Post-Construction Stormwater Management adopted?  Yes  No

a. Effective Date or Estimated Date of Adoption: 05/01/2015  
(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. You may attach additional information.

Waterbody Segment that receives flow from the MS4	Number of Outfalls into receiving waterbody segment	Have any monitoring been performed to outfalls? (Yes/No)	List of Pollutant(s) causing impairment (if applicable)	List of TMDL Pollutant (s) (if any)
Gurabo River PRER14G1	27	No	Cooper, cyanide, total coliform, turbidity.	Fecal coliform, copper, biochemical oxygen demand, ammonia.
Loíza River PRER14A2	15	No	Cyanide, pesticides, total coliform, turbidity.	Fecal coliform, copper, biochemical oxygen demand, ammonia.

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

For every measurable goal and associated Best Management Practice (BMP) listed in the adopted program, provide the following information (You may include additional pages):

<b>BMP Description or BMP ID (e.g. MCM-1)</b>	<b>Goal Achieved? (Yes/No)</b>	<b>Continued in next permit cycle? (Yes/No)</b>	<b>Who was the targeted audience? Explain reason for not achieving goal.</b>	<b>Modification(s) to goals or BMP for next permit cycle</b>
<b>MCM-1 Public Education &amp; Outreach</b>				
Distribute Stormwater Education Materials	No	Yes	General public and private sector. Budget constraints.	The municipality is expecting to continue with the BMP
Education Campaign	No	Yes	Local (K-12) and college students. There were no enough economical resources to reach the proposed goal.	The municipality is expecting to continue with the BMP
Stormwater Public Service Announcements			General public and private sector.	The municipality is expecting to continue with the BMP
<b>MCM-2 Public Involvement &amp; Participation</b>				
Annual Cleanup	Yes	Yes	General Public. The targeted goal was achieved	The Municipality will continue with the same target goals.
Storm Drain Stenciling	No	Yes	General Public and Homeowners. The relocation of financial resources to complete other tasks of the permit.	The Municipality will continue with the sane target goals.
Establish Stormwater Committee	No	Yes	Community leaders and volunteers.	The Municipality will continue with the sane target goals.
<b>MCM-3 Illicit Discharge Detection and Elimination Program</b>				
Ordinance or other Regulatory Mechanism	Yes			Amendments as needed.
Storm Sewer System Map	No	Yes	Ongoing process.	The effort will continue during the new cycle.

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

For every measurable goal and associated Best Management Practice (BMP) listed in the adopted program, provide the following information (You may include additional pages):

<b>BMP Description or BMP ID (e.g. MCM-1)</b>	<b>Goal Achieved? (Yes/No)</b>	<b>Continued in next permit cycle? (Yes/No)</b>	<b>Who was the targeted audience? Explain reason for not achieving goal.</b>	<b>Modification(s) to goals or BMP for next permit cycle</b>
Detect and Eliminate Connections and Discharges	Yes	Yes	Problem areas throughout the territory.	The Municipality will continue with the effort during the new cycle.
<b>MCM-4 Construction Site Storm Water Runoff Control</b>				
Ordinance or other Regulatory Mechanism	Yes			Amendments as needed.
Construction Site Inspections	Yes	Yes	City-wide.	The Municipality will continue funding this task during the new permit cycle.
Education Program for Contractors				
<b>MCM-5 Post Construction And Re-Development Storm Water Program</b>				
Ordinance or Regulatory Mechanism				
Inspection and Maintenance Program	Yes	Yes	Ongoing effort. Maintenance new and replacement of old infrastructure.	The effort will continue during the new cycle.
<b>MCM-6 Pollution Prevention and Good Housekeeping</b>				
Employee Training program	No	Yes	Municipal employees. Trainings where given but could not complete all the proposed conferences.	The effort will continue during the new cycle.
Stormwater Inspections	Yes	Yes	Public works facility.	The effort will continue during the new cycle.
Storm System Cleaning	Yes	Yes	City wide.	The effort will continue during the new cycle.

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

Public Education and Outreach (See Section 2.4.2 for detailed information of required BMPs):

<b>BMP Description or BMP ID (e.g. MCM-1)</b>	<b>Education Topic (Identify the issue your BMP is educating the public about.)</b>	<b>Outreach Method (Describe the method used to convey this topic, e.g. mailing, events, school, etc.)</b>	<b>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.)</b>
BMP-1 Storm Drain Stenciling Program	Non-Point Sources and Illegal Discharges	Storm Drains Stenciling	Number of storm water inlets painted and volunteers participating. The target is to have a minimum of 50 drains marked on yearly basis.
BMP-2 Annual Cleanup	Non-Point Sources	Volunteer and residents' participation	Number of tons of debris and recyclables collected during the cleanup events. The target is to collect 1 ton per year but to reduce the amount based in the success of the program.
BMP-3 Public Education Program	Illegal Discharges, Non-Point Sources and Erosion Control	Public Meetings, School Lectures	Number of residents attending the events. To target 200 students every year city-wide.
BMP-4 Community Hotline	Illegal Discharges and Non-Point Sources	Thru the general outreach activities, the Municipality encourages the use of the hotline to address the problems.	Number of calls and referrals to correct illegal discharges and non-point sources of pollution.
BMP-5 Social Media Education Campaign	Illegal Discharges, Non-Point Sources and Erosion Control	Posting of educational clips and messages in Facebook, Twitter, Instagram and Snapchat	Number of messages distributed, shared and viewed on a weekly basis.

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

Public Involvement and Participation (See Section 2.4.3 for detailed information of required BMPs):

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.)
BMP-1 Storm Sewer System Map	Then Municipality is required to develop an inventory of all municipal stormwater infrastructure.	Create a map inventory of all the stormwater infrastructure in the urban area of the Municipality.
BMP-2 Implement Regulations to Enforce Non-Storm Discharges	The Municipality will start train its employees and implement the approved ordinance throughout its territory.	It is expected to start in the first semester of 2017. Reduction in illicit discharges and connections.
BMP-3 Meet with Local Community Groups and Organizations to Involve them in Stormwater Efforts	The Municipality propose the use of public meetings through the community as a mean to request their involvement in the efforts coordinated by the administration.	The number of volunteers and the total number of communities covered during the public meetings.
BMP-3 Develop and conduct periodical focus groups to discuss the current issues related to pollution from storm-waters	The Municipality propose the use of focus groups through the community as a mean to request their involvement in the efforts coordinated by the administration.	The number of volunteers participating during the focus groups and the number of issues identified and fixed.
BMP-4 Conduct Public Hearings to address Stormwater issues	The Municipality propose conducting a yearly Public Hearing to address the most pressing issues related to pollution from Stormwater runoff.	The number of participants and issues identified and resolved as a result from the Public Hearing.

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

Illicit Discharge Detection and Elimination (See Section 2.4.4 for detailed information of required BMPs):

BMP Description or BMP ID (e.g. MCM-1)	Program Description (Describe the program and how it will identify 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.)
BMP-1 Prepare and implement an ordinance targeting illegal discharges at the storm sewer system	The Municipality propose to present a local ordinance and the necessary regulation targeting illegal discharges into the storm sewer system.	The number of discharges identified and corrected on a yearly basis.
BMP-2 Adopt a Stream Program	The Municipality propose the development of an adoption program with local partners aimed to target one of the water bodies located within the urban area of Gurabo.	The number of streams or meters adopted and the improvement of the surface water quality of the streams.
BMP-3 MS4Web Permit Manager Tool	Gurabo propose the use of the MS4Web Permit Manager as a mean to provide local residents and municipal managers with an internet based tool to access data on illegal discharges and all storm water outfalls in the city and how to address the issue of illegal discharges.	Number of residents and local managers using the Internet-based tool.
BMP-4 Used Oil Recycling Program	The Municipality of Gurabo will implement the Cease the Grease Program as part of the city-wide effort to reduce the illegal discharge of used cooking oil in the storm sewer system and surface water bodies.	The number of gallons of used cooking oil recycled city-wide
BMP-5 Basic Surface Water Quality Monitoring Project	A basic surface water quality monitoring program will be established in a selected stream using parameters like pH, Temperature and Fecal Coliforms	Data from streams will be compared to data obtained on a regular basis by the PR Environmental Quality Board

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

Construction Site Stormwater Runoff Control (See Section 2.4.5 for detailed information of required BMPs):

<b>BMP Description or BMP ID (e.g. MCM-1)</b>	<b>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.)</b>	<b>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.)</b>
BMP-1 Ordinance to control runoff from construction sites	The Municipality will prepare, approve and adopt an ordinance specifically targeting runoff from construction sites impacting the stormwater sewer system covered by the permit.	The number of interventions and sites corrected. 100% inspection rate city-wide.
BMP-2 Construction Sites Annual Inventory	Then Municipality is required to develop an inventory of all public and private construction projects. The local government propose the use of the MS4Web Permit Manager to create and maintain the inventory identifying all construction sites. The tool helps the local managers to update the information as needed. All documents associated with the projects will be added in PDF format during the inspections and will be ready available to the inspectors.	The number of projects identified and certified ion compliance with the permit.
BMP-3 Development of SOPs for Construction Permits.	The Municipality propose the development of a Construction SOP aimed to provide developers with new means to address regulation requirement and for inspectors to identify deficiencies during inspections.	Number of Projects city-wide visited and brought into compliance with local ordinance and USEPA regulations.
BMP-4 BMPs during construction Poster	The Municipality will prepare and distribute a poster aimed to contractors and construction projects with BMPs specifically design to reduce impacts to the stormwater runoff from construction activities.	A 100% coverage of active and permitted construction projects city-wide.

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

Post-Construction Stormwater Management in New Development and Redevelopment (See Section 2.4.6 for detailed information of required BMPs):

<b>BMP Description or BMP ID (e.g. MCM-1)</b>	<b>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.)</b>	<b>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.)</b>
BMP-1 Ordinance to control runoff pollution from post-construction projects	The Municipality will prepare, approve and adopt an ordinance specifically targeting runoff from post-construction projects impacting the stormwater sewer system covered by the permit.	The number of interventions and sites corrected. 100% inspection rate city-wide.
BMP-2 Standard Operating Procedures for Post-Construction Projects	The Municipality of Gurabo propose to develop procedures to avoid runoff impacts to nearby surface waterbodies from stormwater controls located on completed construction projects. This will include impacts from retention ponds or non-covered areas prone to high rates of sedimentation.	Number of projects visited and certified in compliance with local ordinances and USEPA regulations.
BMP-3 Brochures	A series of brochures will be developed to be distributed among residents and managers of new and old housing and apartment projects city-wide aimed to educate them in good practices to avoid impacts to the existing stormwater infrastructure.	To distribute no less than 100 copies on a yearly basis.

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

Good Housekeeping and Pollution Prevention in Municipal Operations (See Section 2.4.7 for detailed information of required BMPs):

<b>BMP Description or BMP ID (e.g. MCM-1)</b>	<b>Program Description (Describe the program and how it will mitigate stormwater runoff at municipal properties or 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.)</b>	<b>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.)</b>
BMP-1 Trainings for Municipal Employees	The Municipality will provide trainings on BMPs for mechanics, green-areas workers, painters, electricians, and clerical employees on how to address simple issues identified in the daily tasks of Municipal Operations. The trainings will cover oil, paint and fuel spills, emergency response, good housekeeping, material storage, and record keeping.	The Municipality will provide their employees with two (2) workshops/trainings every year addressing BMPs and their responsibility under the USEPA-NPDES Permit.
BMP-2 SOPs for Municipal Operations	The Municipality will develop and implement the required Standard Operation Procedures for all the operations and maintenance activities conducted daily at Municipal Public Works. The SOPs will cover all activities that may have an impact on the NPDES-MS4 permit.	Number of inspections completed and certified in compliance with local ordinances and USEPA regulations.
BMP-3 SOPs for Municipal Facilities	The Municipality will develop and implement the required SOP for the operation of municipal facilities including parks and open space maintenance, sidewalks, streets and roads; and auto yards.	Number of inspections completed and certified in compliance with local ordinances and USEPA regulations.
BMP-4 Webinars on Water Quality BMPs	The Municipality propose offering a webinar to municipal employees on simple BMPs designed to protect their surface water resources.	The number of participants and efforts developed by the employees after the webinar.

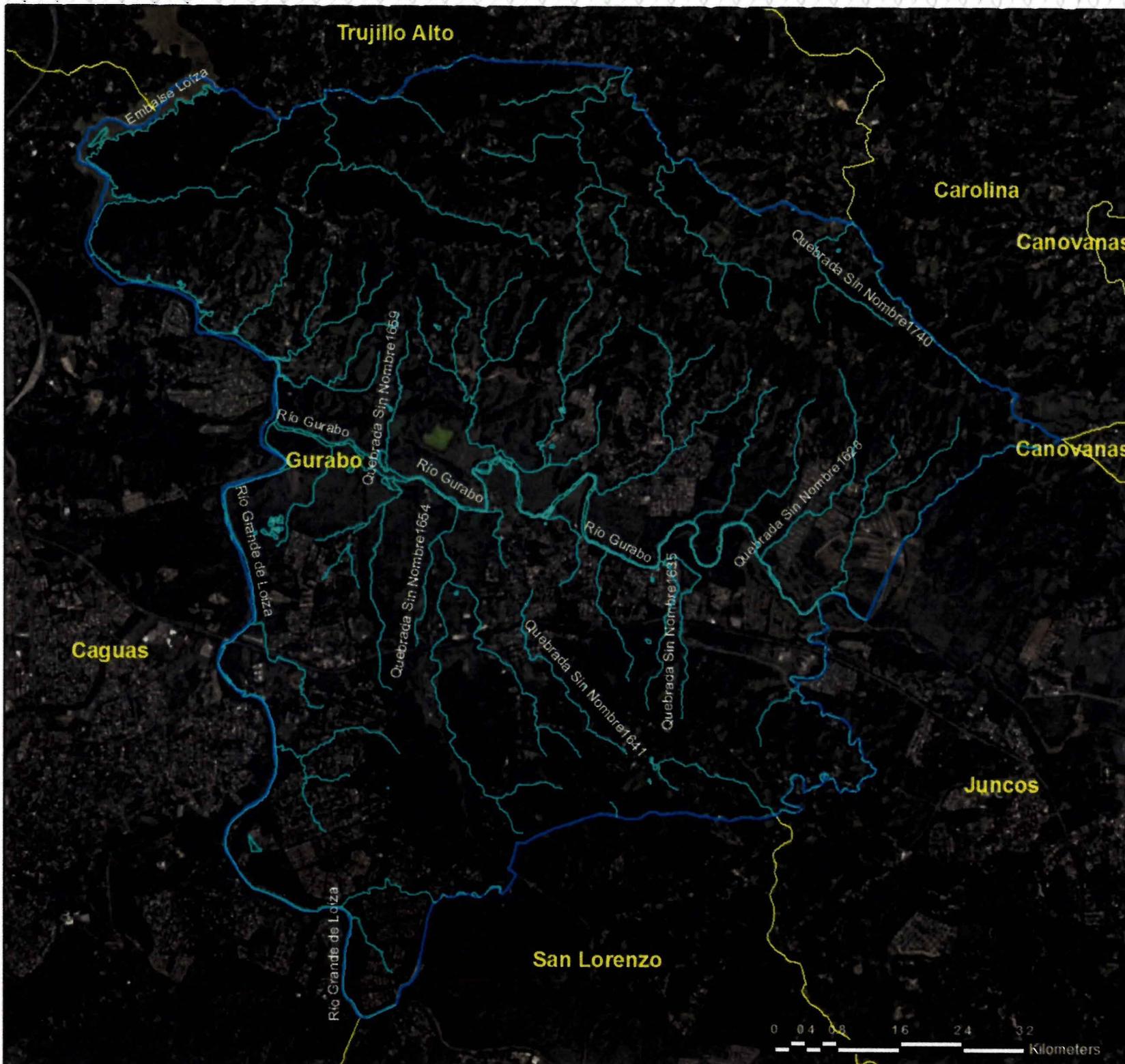
**Part J. Application Certification and Signature**

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: Victor M. Ortiz

Title: Mayor Date: 9/6/16



### Gurabo Hydrography

**Legend**

-  Hydrography
-  Gurabo
-  Municipalites

Projection: Lambert  
 Coordinate System: NAD83 PR StatePlane



Source: JP  
 1:65,554



Puerto Rico



2016

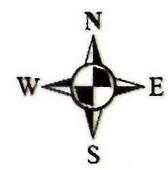


### Gurabo, Wards and Bordering Cities

**Legend**

-  Gurabo
-  Bordering Cities
-  Wards

Projection: Lambert  
Coordinate System: NAD83 PR StatePlane



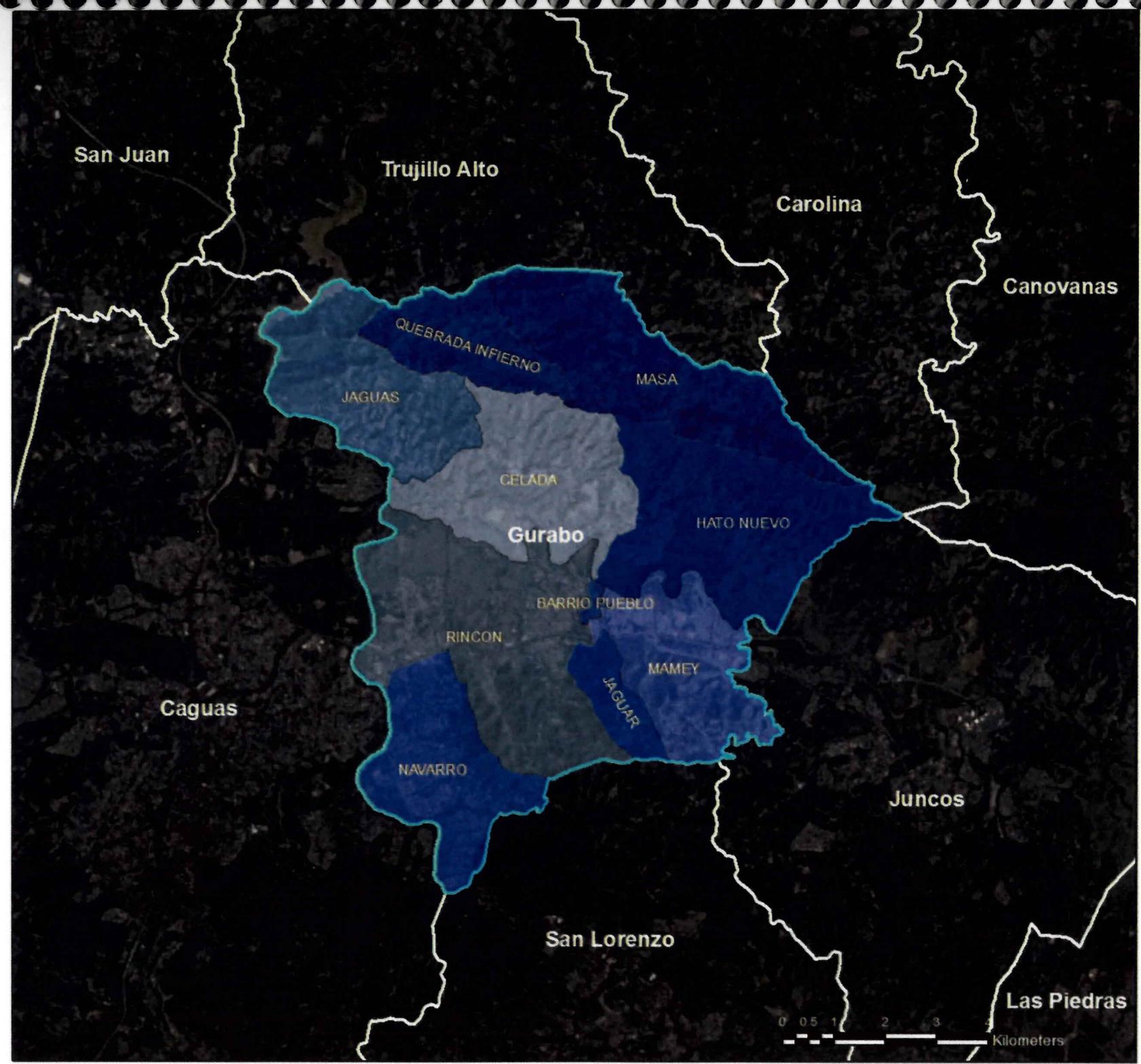
Source: JP  
1:100,000



Puerto Rico



2016



### Gurabo MS4Web Outfall M & Main Rivers

**Legend**

- Outfalls
- Main Rivers
- Municipalities

Projection: Lambert  
Coordinate System: NAD83 PR StatePlan



Source: JP, Gurabo MS4Web  
1:40,022



Puerto Rico



2016

