

September 30, 2016

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

2016 SEP 29 PM 4:06

US EPA  
OEPRD  
RECEIVED

NOTICE OF INTENT (NOI) - UNIVERSITY OF PUERTO RICO AT ARECIBO  
FOR STORM WATER DISCHARGES FROM SMALL MS4s IN URBANIZED  
AREAS



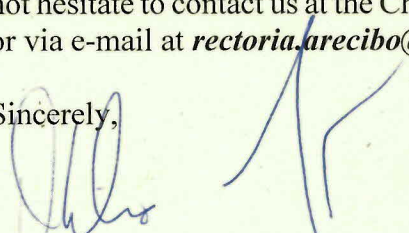
As part of the provisions of the Clean Water Act, Section 402 (p), requires that storm water discharges, associated with municipal separate storm sewer system (MS4s) in urbanized areas, to waters of the US must be authorized by a National Pollutant Discharge-Elimination System (NPDES) permit.

Office of the  
Chancellor

In order to comply with this requirement, we are submitting our Notice of Intent for the NPDES Permit no. PRR040005. 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 University of Puerto Rico at Arecibo 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 Chancellor's Office at 787-815-0000 extension 1000 or via e-mail at [rectoria.arecibo@upr.edu](mailto:rectoria.arecibo@upr.edu)

Sincerely,

  
Otilio González Cortés, Ph.D., J.D.  
Chancellor

ess/ntv

Enclosure: Notice of Intent

"EEO Employer"

PO Box 4010  
Arecibo PR, 00614-4010

(787) 815-0000  
Ext. 1000  
(787) 880-2245 Fax

UNIVERSITY OF PUERTO RICO AT ARECIBO

NOTICE OF INTENT  
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PHASE II, REGULATED  
SMALL MUNICIPAL SEPARATE STORM SEWER SYSTEMS (MS4's)

UNIVERSITY OF PUERTO RICO AT ARECIBO

EPA REGION 2 PUERTO RICO

PREPARED BY  
ECOSTAHLIA CONSULTORES AMBIENTALES  
SAN JUAN, PUERTO RICO

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 (PRR040059) for Puerto Rico

**Part A. General Information**

1. Name of Municipality or Organization: UNIVERSITY OF PUERTO RICO AT ARECIBO
2. Type: ☐ Federal ☒ State ☐ Municipality ☐ Other: \_\_\_\_\_
3. Existing Permittee: ☒ Yes ☐ No If yes, provide EPA NPDES Permit Number: PRR040005
4. Location Address:
  - a. Street: CARR. PR #653 KM. 0.8 R-129  
BO. HATO ABAJO, SECTOR LAS DUNAS
  - b. City: ARECIBO State: PR Zip Code: 00614
5. Mailing Address:
  - a. Street: PO BOX 4010
  - b. City: ARECIBO State: PR Zip Code: 0014-4010
6. Telephone Number: (787)815-0000 EXT 1000 Fax: (787) 880-2245
7. E-mail: RECTORIA.ARECIBO@UPR.EDU
8. Standard Industrial Classification (SIC) Code (see instructions for common codes): 8221
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° 28' 11" N (degrees, minutes, seconds) 66° 44' 30' ° W (degrees, minutes, seconds)

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

1. Name: ELAINE Y. SANTIAGO SINDO
2. Position Title: ENVIRONMENTAL, HEALTH AND OCCUPATIONAL SAFETY SPECIALIST
3. Stormwater Management Program (SWMP) Location (web address or physical location):  
<http://www.upra.edu/pmae/programa.html>
4. Mailing Address:
  - a. Street: P.O. BOX 4010
  - b. City: ARECIBO State: PR Zip Code: 00614

5. Telephone Number: 787-815-0000 EXT 3630

6. E-mail: ELAINE.SANTIAGO@UPR.EDU

### 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 UPRA Campus is located at the PR-653 Road, Km. 0.8, Las Dunas Sector, Hato Abajo Ward in Arecibo, Puerto Rico. The UPRA Campus is located at the approximate coordinates of Latitude 18° 28' 11" and Longitude 66° 44' 30". The UPRA Campus property covers an area of approximately 50 "cuerdas" on which several buildings covering a total area of approximately 340,000 square-feet (sf) are located. The UPRA Campus' facilities include 78 class rooms, 18 laboratories for different educational subjects, parking areas, several sport facilities and associated infrastructure.

The UPRA Campus is located in the northern part of Puerto Rico in an area of significant agricultural, industrial and economic development. The UPRA Campus is a superior education academic institution, designed to principally serve the northern central Region of the Island. The University offers 34 academic programs with Bachelor and associated degrees and transfer programs. The main Departments and programs offered by the UPRA Campus include:

- Business Administration
- Biology
- Social Sciences
- Education
- Human sciences
- Physics
- Engineering programs transfers
- Computer Sciences
- Mathematics
- Communications
- Nursery
- Chemistry
- Office Systems; and

The UPRA Campus has an average annual student enrollment of approximately 4,000, faculty of approximately 260 faculty members and approximately 540 employees.

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 %

**NOTE: The Administration will contract a new system map in the first semester on 2017.**

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:

<http://www.upra.edu/pmae/pdf/Fig%203%20Storm%20Sewer.pdf>

**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: 10/30/2007  
(MM/DD/YYYY)

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

a. Effective Date or Estimated Date of Adoption: 10/30/2008  
(MM/DD/YYYY)

3. Post-Construction Stormwater Management adopted? ☒ Yes ☐ No

a. Effective Date or Estimated Date of Adoption: 10/30/2008  
(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	Has any monitoring been performed to outfalls? (Yes/No)	List of Pollutant(s) causing impairment (if applicable)	List of TMDL Pollutant (s) (if any)
NONE	NONE	NONE	NONE	NONE
NONE	NONE	NONE	NONE	NONE
NONE	NONE	NONE	NONE	NONE
NONE	NONE	NONE	NONE	NONE

NONE	NONE	NONE	NONE	NONE
NONE	NONE	NONE	NONE	NONE

**NOTE:** The MS4 system from the UPRA discharges into the MS4 of the Municipality of Arecibo and the PRDOT. The discharges eventually reach the Atlantic Ocean and the Río Grande de Arecibo. However, it is unknown to the University the exact location of the outfalls and/or discharge points.

**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):

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
<b>MCM-1 Public Education &amp; Outreach</b>				
Collect brochures, fact sheets and other educational materials from the EPA and other agencies.	Yes	Yes	University students, employees and faculty. A series of 6 brochures were printed and distributed.	Some modifications to the existing documents. All 6 will be included in the campus website.
Distribution of information to students, employees and faculty.	Yes	Yes	Students, employees and faculty. With the support from ROTARACT and CEMA (student's organizations) materials and information was distributed among groups.	The University is expecting to continue with the BMP in the next cycle.
Modify webpage for the Stormwater Program.	Yes	Yes	General public, students, employees and faculty.	No major changes except for Social Media Cover.
Radio Program	Yes	Yes	General public, students, employees and faculty. The radio program approach was discontinued. The university instead created UPRA-Web-radio. They air PSAs related to storm-water information.	The efforts will continue in the next cycle.
Establish a library of educational materials.	No	No	General public, students, employees and faculty. It was difficult to implement due to lack of resources in general. This activity was discontinued.	Discontinued.
Incorporate university and student organizations into the program.	Yes	Yes	Around 10 organizations were involved in different activities.	The effort will continue in the next cycle.

Evaluate the possibility of including the storm water pollution control to exiting environmental courses offered at UPRA	Yes	Yes	Students. Currently several courses at UPRA include the topic of storm water pollution control.	The effort will continue in the next cycle.
<b>MCM-2 Public Involvement &amp; Participation</b>				
Review SWMP by the university community	Yes	Yes	General Public, Students, Employees and Faculty. The SWMP is available at the university website.	The University will continue with the goal.
Create events for students, employees and faculty to clean-up the campus.	Yes	Yes	Through the Campus website the general public was invited. The activities were coordinated at the Annual Fair for a Better Quality of Living.	The University will continue with the goal.
Involve student's organizations such as Student Council and the Departments of Social Sciences, Natural Sciences, and Engineering.	Yes	Yes	Through the Campus website the general public was invited. The activities were coordinated as part of the celebration of Earth Day.	The UPRA will continue with the effort in the new cycle.
Respond to verbal inquiries, comments and concerns about illicit disposal of wastes, and/or request of information.	Yes	Yes	The University has and will continue to respond to inquiries and comments through the website.	The UPRA will continue with the effort in the new cycle.
Make the SWMP/NOI available to students and faculty.	Yes	Yes	Both documents are available at the website. The general public can comment and will get responses by email.	The UPRA will continue with the effort in 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):

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
<b>MCM-3 Illicit Discharge Detection and Elimination Program</b>				
Encourage cleaning of Campus Parking Area.	Yes	Yes	Before the beginning of every Hurricane Season, the administration conduct inspections, clean-ups all storm drains at parking areas.	None. The activity will continue during the next cycle.
Complete the layout of the storm water system.	Yes	Yes	The map, although completed, will require an update. The administration will contract the activity in the first semester of 2017.	None. The activity will continue during the next cycle.
Issuance of an Interpretative Letter addressing illegal discharges from washing vehicles, cafeteria floors, cooling tower overflows, floor drains, draining of sinks, etc.	Yes	Yes	The letters were issued during the previous permit cycle, but will be re-issued in 2017.	None
Enforcement action will be taken on those who violate the Policy in accordance to the University's policy enforcement code.	Yes	Yes	No illegal discharges have been identified.	The University will continue with the task in the next cycle.

Elimination or connection to the sanitary sewer system of sinks at the North Plaza de los Fundadores, at the Landscaping Storage Room, to the east of the South Wing Class Rooms, Graphics Art area and wash Waters from the Cafeteria area to the Sanitary system.	Yes	Yes	This task was completed	Discontinued in the next cycle.
Testing of floor drains at Machine Room to determine possible connection to storm sewer.	Yes	Yes	The system is connected to the sanitary sewer system. Other issues with overgrown roots clogging pipes need to be addressed by the administration.	This task was completed. No new tasks in the next cycle.
If floor drains are found to discharge into to the storm sewer, disconnect and connect to the sanitary sewer.	Yes	No	The system is connected to the sanitary sewer system. Other issues with overgrown roots clogging pipes needs to be addressed by the administration.	This task was completed. No new tasks in the next cycle.
Disconnection of cooling tower overflow to the storm sewer and connection to the sanitary sewer.	Yes	No	The AC tower was dismantled and a new system with a closed system was installed.	This task was completed. No new tasks in the next cycle.
Visual inspections of outfalls during dry weather.	Yes	Yes	Completed by a contractor. No illegal discharges were ID at the premises.	This activity will continue during the next cycle. Frequency will depend on funds allocated by the administration.
Removal of source illegal discharge.	Yes	Yes	Completed by a contractor. No illegal discharges were ID at the premises.	This activity will continue during the next cycle depending on funds allocated by the administration.



The University will train employees in the detection, prevention, and identification of illegal discharges.	Yes	Yes	The trainings are offered according to the space and resources availability.	This activity will continue during the next cycle. Frequency will depend on funds allocated by the administration.
Notify students, faculty and employees of the hazards and costs of illegal discharges and improve disposal of waste through seminars and/or published and distributed information.	Yes	Yes	The task was aimed at students, faculty and employees and will continue.	This activity will continue as part of the activities in 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):

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
<b>MCM-4 Construction Site Storm Water Runoff Control</b>				
Implementation and Adoption of an Interpretative letter for contractors to comply with the NPDES-MS4 permit, and the CES Plans.	Yes	Yes	Contractors. The task was completed. Enclosed copy of the Interpretative Letter.	To be modified as needed. Letter will be re-issued in 2017.
Implementation and Adoption of an Interpretative letter to avoid improper disposal of construction materials like: building materials, concrete truck washout, chemicals, litter and sanitary waste.	Yes	Yes	Contractors. The task was completed. Enclosed copy of the Interpretative Letter.	To be modified as needed. Letter will be re-issued in 2017.
Enforcement actions on those who violate the UPRA Requirements.	Yes	Yes	Contractors. No actions were needed.	The task will continue during the next cycle.
The University staff will review the SWPPPs prepared by contractors during construction activities at the premises.	Yes	Yes	Contractors. No actions were needed.	The task will continue during the next cycle.

MCM-5 Post Construction and Re-Development Storm Water Program				
The UPRA will prepare a site development strategic plan called the “Marco de Desarrollo Físico 2016-2024”. The document will be reviewed to determine if non- structural BMPS such as the protection of sensitive Areas (i.e.: surface water bodies, forest), minimization of impervious area, and minimization of soils and vegetation disturbances can be incorporated in the Plan.	Yes	Yes	University Administration	In the next cycle, the new strategic plan will cover these requirements.
The UPRA will develop an Interpretative Letter to require the consideration of post-construction runoff for new developments and redevelopments.	Yes	Yes	Contractors. The task was completed. Enclosed copy of the Interpretative Letter.	To be modified as needed. Letter will be re-issued in 2017.
MCM-6 Pollution Prevention and Good Housekeeping				
Develop training for staff in charge of maintenance activities.	Yes	Yes	The trainings are offered according to the space and resources availability.	This activity will continue during the next cycle. Frequency depending on funds allocated by the
Development of a Good Housekeeping Program	Yes	Yes	Employees. Brochures and trainings have been offered and will continue during the next cycle.	This activity will continue during the next cycle depending on funds allocated by the administration.
Routine Inspections	Yes	Yes	Employees. Full area inspections are conducted twice a year.	This activity will continue during the next cycle.

Removal of sediments accumulated in the concrete channel around the Chemical and Hazardous Storage Room.	Yes	Yes	Employees. This is a regular maintenance activity.	This activity will continue during the next cycle.
Pavement of temporary parking located west of the Chemical and Hazardous Storage Room.	Yes	No	Activity Completed	The activity was completed.
Construction of a new containment area for the storage of used oil from the Cafeteria.	Yes	No	Activity Completed	The activity was completed.
Develop an SOP for maintaining all chemical materials paints and discarded paint containers stored in a covered area with a containment system.	No	Yes	The lack of technical resources and funding delayed this activity. It will be included in the next cycle.	This activity will be completed in the first semester of 2017.
Develop a storm drain maintenance and cleaning program.	No	No	There are no issues with illegal discharges but roots growing in the pipelines. A new approach will be selected by the administration.	A new activity will be planned according to the findings.
Continue using the waste disposal services to collect floatables and other waste.	Yes	Yes	University Campus	This services 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):

BMP Description or BMP ID (e.g. MCM-1)  Public Education and Outreach	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, etc.)	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.)
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 all drains marked on yearly basis.
BMP-2 Collect brochures, act sheets and other educational materials from the EPA and other agencies.	Non-Point Sources and Illegal Discharges	Email and Social Media. Engaging organizations like ROTARACT, CEMA and others.	Reproduce all 6 brochures and distribute the documents on mass email using the Campus email service.
BMP-3 Distribution of information to students, employees and faculty.	Illegal Discharges, Non-Point Sources and Erosion Control	Public Meetings, Lectures, emails.	Reach 100% on enrolled students using emails, meetings and lectures.
BMP-4 Modify webpage for the Storm Water Program.	Illegal Discharges and Non-Point Sources	Through the general outreach activities, the University encourages the use of the webpage to obtain information.	Number of visits to the page and downloads.
BMP-5 Radio Program	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 monthly basis.
BMP-6 Incorporate university and student organizations into the program.	Implementation of MS4 Permit in the UPRA Campus	Events, Fairs, Lectures, Events	Number of students enrolled and participating of the events.
BMP-7 Evaluate the possibility of including the storm water pollution control to exiting environmental courses offered at UPRA	Illegal Discharges, Non-Point Sources and Erosion Control	Continue with the effort of including the topics in the courses offered at the University.	Number of students enrolled and participating in the courses offered at campus are: BIOL 3919 – Water Microbiology BIOL 3920 – Water Microbiology Lab. BIOL 3733 – Environmental Microbiology BIOL 3734 – Environmental Microbioly Lab. BIOL 4045 – Environmental Law TEQU 4016 – Environmental Control TEQU 4018 – Pharmaceutical Industry Regulations

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

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

<b>BMP Description or BMP ID (e.g. MCM-1)</b>  <b>Public Involvement and Participation</b>	<b>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.)</b>	<b>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.)</b>
BMP-1 Review SWMP by university community.	The UPRA Community will have their SWMP available in their webpage for comments and suggestions.	Number of students, employees and faculty members visiting the page to download and review the document.
BMP-2 Create events for students, employees and faculty to clean-up the campus.	The University 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 students, faculty members and employees participating in the events.
BMP-3 Involve student's organizations such as Student Council and the Departments of Social Sciences, Natural Sciences, and Engineering.	The university propose the use of focus groups through the community as a mean to request their involvement in the efforts coordinated by the administration. Also, the use of public meetings and local events.	The number of volunteers participating during the focus groups and the number of issues identified and fixed.
BMP-4 Respond to verbal inquiries, comments and concerns about illicit disposal of wastes, and/or request of information.	The University has and will continue responding to inquiries and comments through the campus' website.	The number of responses to inquiries and comments posted in the website.
BMP-5 Make the SWMP/NOI available to students and faculty.	Both documents will continue to be available at the website. The administration will issue comments and responses accordingly.	The number of responses to inquiries and comments posted in the website.



**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)  Illegal Discharge Detection and Elimination	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 Encourage cleaning of Campus Parking Area.	The Campus Administration propose to continue with the annual inspections and cleanups of all storm drains at parking areas.	Complete the cleaning of 100% of all storm drains at parking areas.
BMP-2 Complete the layout of the storm water system.	The map, although completed, will require an update. The Campus administration will contract the work during the first semester of 2017.	Complete and update 100% of the system map by 06/30/2017.
BMP-3 Issuance of an Interpretative Letter addressing illegal discharges from washing vehicles, cafeteria floors, cooling tower overflows, floor drains, draining of sinks, etc.	The guidance letters were issued during the previous permit cycle, but will be re- issued in 2017.	The modification and re-issuance of the Interpretative Letter.
BMP-4 Enforcement action will be taken on those who violate the Policy in accordance to the University's policy enforcement code.	Although no violations have been detected, the administration will continue with the effort.	Number of actions taken.
BMP-5 Visual inspections of outfalls during dry weather.	Although no violations have been detected, the administration will continue with the effort.	Number of positive inspections and positive id. of leaking outfalls.

BMP-6 Removal of source illegal discharge.	Although no violations have been detected, the administration will continue with the effort.	Number of positive inspections and positive id. of illegal discharges.
BMP-7 The University will train employees in the detection, prevention, and identification of illegal discharges.	Although no violations have been detected, the administration will continue with the effort.	Number of employees with certified attendance.
BMP-8 Notify students, faculty and employees of the hazards and costs of illegal discharges and improve disposal of waste through seminars and/or published and distributed information.	The Campus administration propose the use of emails and PSAs on the website to reach all enrolled students, faculty members and employees.	Number of members of university community reached through existing systems.

**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>Construction Site Stormwater Runoff Control</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 Implementation and Adoption of an Interpretative letter for contractors to comply with the NPDES-MS4 permit, and the CES Plans.	Personal and electronic distribution among contractors during contract signature process.	Number of actions taken by the Administration.
BMP-2 Implementation and Adoption of an Interpretative letter for contractors to avoid improper disposal of construction materials like: building materials, concrete truck washout, chemicals, litter and sanitary waste.	The existing Interpretative Letters offer contractors a general guidance to comply with the University responsibility to comply with environmental regulations. Inspections to contracted jobs.	Number of actions taken by the Administration.
BMP-3 Development of a SOP that include all the BMPs associated with construction activities.	The SOP will establish the proper guidance to the campus administration and all contractors hired to avoid unnecessary violations to the NPDES-MS4 Permit.	Positive inspections and lack of violations during construction activities.
BMP-4 The University staff will review the SWPPPs prepared by contractors during construction activities at the premises.	The staffers will review the documents for consistency with the NPDES-MS4 and EPA regulations and the Campus permit.	Number of documents complying with EPA regulations and the Campus permit.

**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>Post-Construction Stormwater Management in New Development and Redevelopment</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 Develop and implement a SOP for Post-Construction Activities.	The SOP will establish the proper guidance to the campus administration and all contractors hired to avoid unnecessary violations to the NPDES-MS4 Permit.	Positive inspections and lack of violations during construction activities.
BMP-2 The UPRA will prepare a site development strategic plan called the “Marco de Desarrollo Físico 2016-2024”. The document will be reviewed to determine if non- structural BMP’S such as the protection of sensitive Areas (i.e.: surface water bodies, forest), minimization of impervious area, and minimization of soils and vegetation disturbances can be incorporated in the Plan.	The Strategic Plan will incorporate guidance from EPA and the SOP to minimize the impact of pollution from stormwater.	Number of activities and practices adopted in the Strategic Plan.

**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>Good Housekeeping and Pollution Prevention in Municipal Operations</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 staff in charge of maintenance activities.	The Campus Administration 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 the Campus Operations. The trainings will cover oil, paint and fuel spills, emergency response, good housekeeping, material storage, and record keeping.	The Administration will provide the employees with workshops/trainings every year addressing BMPs and their responsibility under the USEPA-NPDES MS4 Permit.
BMP-2 SOPs for Campus activities	The University will develop and implement the required Standard Operation Procedures for all the operations and maintenance activities conducted daily at Campus. The SOPs will cover all activities that may have an impact on the NPDES-MS4 permit including management of the chemical storage facility.	Number of inspections completed and certified in compliance with local ordinances and USEPA regulations.
BMP-3 Routine inspections.	The Administration will conduct inspections twice a year to certify compliance with the NPDES Permit.	Number of inspections completed and certified in compliance with USEPA regulations.
BMP-4 Removal of sediments accumulated in the concrete channel around the Chemical and Hazardous Materials Storage Room.	The staff will continue with this activity on a monthly basis.	Positive inspections on a monthly basis.

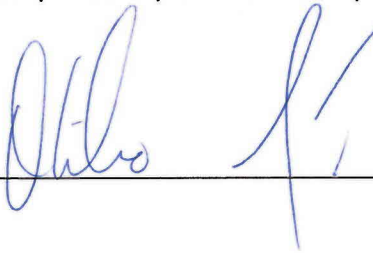
BMP-5 Develop a storm drain maintenance and cleaning program.	Although there are no issues with illegal discharges, there is a pervasive problem with root overgrow in the pipelines. This will be addressed to avoid problems with existing pipes.	Completion of the removal of the roots in the next 3 years.
BMP-6 Continue with the waste disposal services to collect floatables and other waste.	The Administration will continue with the service of waste collection to address the removal of floatables.	Number of pounds collected in the system.



**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.

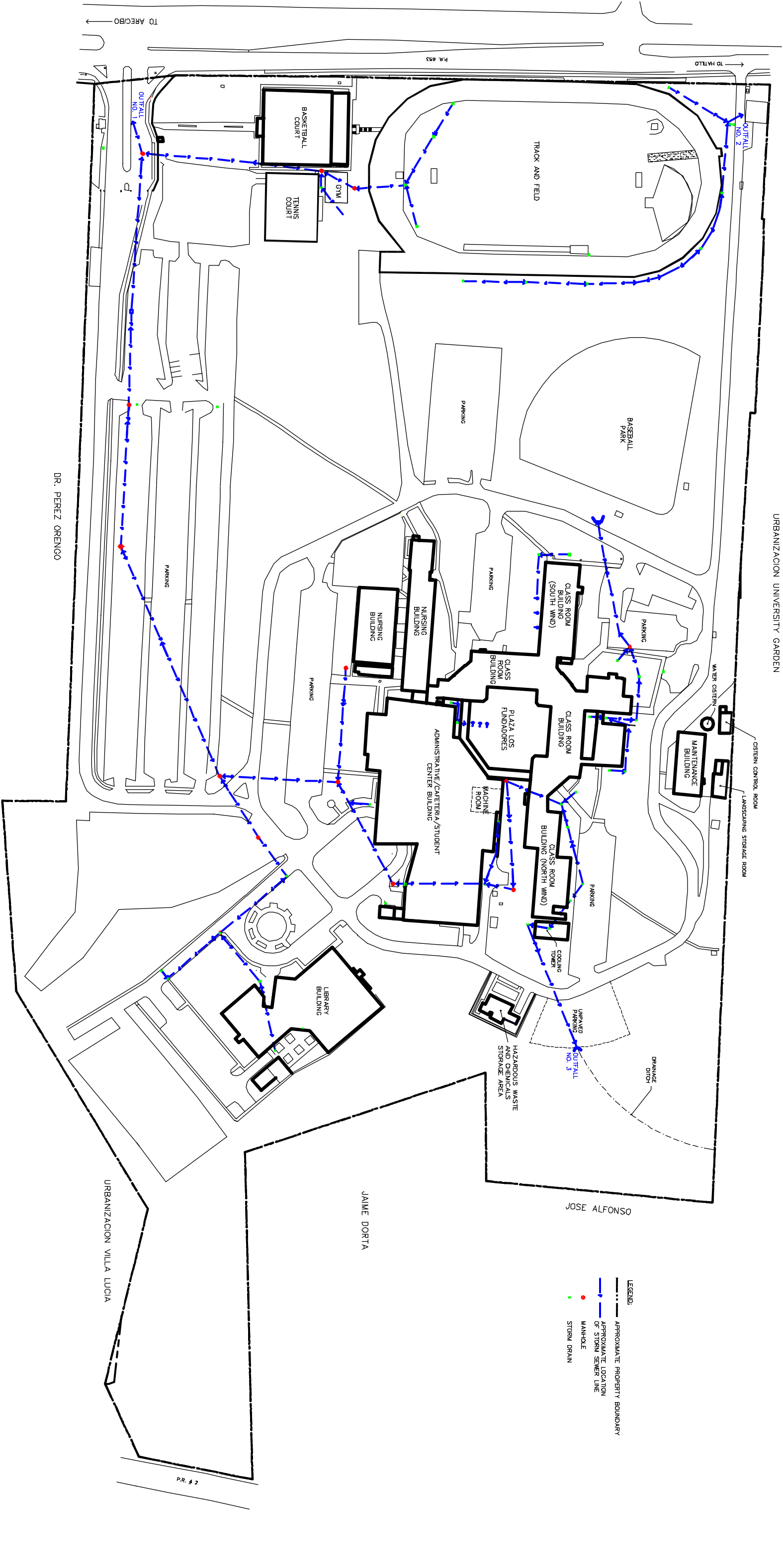
Signature of Chancellor/ Official: \_\_\_\_\_

A handwritten signature in blue ink, appearing to read 'Otilio', is written over a horizontal line.

Print Name of Chancellor/Official: Otilio González Cortés, Ph.D., J.D.

Title: Chancellor

Date: September 28, 2016



SOURCE: BASE MAP PROVIDED BY UPR ARECIBO AND CES SITE VISIT OBSERVATIONS JUNE 12, 2007.

DR. PEREZ ORENCO

URBANIZACION UNIVERSITY GARDEN

MAINTENANCE BUILDING  
CISTERN CONTROL ROOM  
LANDSCAPING STORAGE ROOM

WATER CISTERN

JOSE ALFONSO

JAIME DORTA

URBANIZACION VILLA LUCIA

P.R. # 2

- LEGEND:
- APPROXIMATE PROPERTY BOUNDARY
  - .-.- APPROXIMATE LOCATION OF STORM SEWER LINE
  - MANHOLE
  - STORM DRAIN

GRAPHIC SCALE  
IN METERS  
0 15 30 45

STORM WATER  
MANAGEMENT PROGRAM  
UNIVERSITY OF PUERTO RICO  
ARECIBO CAMPUS  
ARECIBO, PUERTO RICO

STORM SEWER SYSTEM PRELIMINARY  
LAYOUT AND OUTFALLS  
APPROXIMATE LOCATION  
PROJECT NO. 06-0054A

FIGURE 3



7/19/2007 8:14 AM

06-0054A USE THESE NOTES FIG 3 Storm Sewer