

NOTICE OF INTENT

**MUNICIPALITY OF CEIBA, PUERTO RICO
NPDES PERMIT NO. PRR040000 OR STORM WATER
DISCHARGES FROM SMALL MS4s IN URBANIZED AREAS**

1. The Municipality of Ceiba operates a Municipal Separate Storm Sewer System and was listed as a regulated MS4 in Puerto Rico.

2. Responsible Official- Mr. Pedro Colón Osorio
Title: Mayor of the Municipality of Ceiba
Address: P.O. Box 224 Ceiba, P.R. 00735-0224
Telephone: 787-885-2180
E-mail address: alcalde@ceiba-pr.com

3. Designated Storm Management Program Contact: Hipólito Suárez
Title: Administration Assistant
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E-mail address: hipolito.suarez@us.army.mil

4. SIC Number: 9199

5. List of Environmental Permits (including state)

AGENCY PERMIT	NUMBER	TYPE	FACILITY
PREQB	2-940060	Underground Storage Tank	SOTO SERVICE STATION
PREQB	86-1085	Leaking Underground Storage Tank	ESSO S/S CO-179
PREQB	2-860386	Underground Storage Tank	Gulf S/S#407
PREQB	2-860973	Underground Storage Tank	Shell #002810
PREQB	2-910357	Underground Storage Tank	Estación Caribe
PREQB	2-910390	Underground Storage Tank	Ramón Acosta Gas Station
PREQB	2-861712	Underground Storage Tank/Leaking Underground Storage Tank	Ceiba S/S #967
PREQB	2-890078	Underground Storage Tank	Ceiba Remoto
PREQB	2-980145	Underground Storage Tank	Centro Salud Familiar
USEPA	PRD987382025	RCRA-CESQG Registry ID	PR National Guard
USEPA	PRD0001008077	RCRA-NON GEN Registry ID	US Postal Service
USEPA	PRD987380730	RCRA-SQG	RH Products
USEPA	PRR000002865	RCRA-NON GEN	Alberto Culver at DTOP
USEPA	PRD0000689398	RCRA-NON GEN	Ceiba STP
USEPA	PRR000021170	RCRA-SQG	PRIDCO

UST- Underground Storage Tanks; LUST-Leaking Underground Storage Tanks; RCRA-Resources Conservation Recovery Act; SQG-Small Quantity Generator; CESQG-Conditionally Exempt Small Quantity Generator; NON GEN-Non Generator

6. Topographic Map- Appendix A

7. Description of MS4

The Municipality of Ceiba is located in East Coast of the Island at Latitude 18° 15' 52.26" N and Longitude 65°38'42.21" W. It has a territorial extension of 27.5 square miles. Ceiba is bounded by north with the Luquillo and Fajardo municipalities; south with the Naguabo Municipality; west with the municipalities of Río Grande and Naguabo, and by the East with Caribbean Sea. Ceiba is divided into 8 wards: Saco, Chupacallos, Río Abajo, Machos, Quebrada Seca, Daguao, Guayacán and Barrio Pueblo. According to the Census 2000, the municipality has a population of 18,004 inhabitants. The town is changing rapidly as Ceiba is home of recently closed Roosevelt Roads Naval Base now called "La Riviera del Caribe". The area is being considered by the State Government for a major redevelopment project. Due to the proximity to Vieques, Culebra and the USVI, it presents an appealing natural environment and a peaceful residential setting for those who work in the busy urban areas of San Juan. The potential development projects being promoted by the State government present a great challenge to the local administration and will make necessary a process of defining its future.

The Municipality of Ceiba commissioned the development of a Strategic Management Plan, aware that a holistic effort encompassing economic issues, land uses and density, transportation and infrastructure networks, services and open space will best serve in recapturing control over its future. The Municipality also commissioned the development of a Comprehensive Land Use Plan for the entire Municipality. This Land Use Plan shall be approved in 2010 by the Planning Board and the Governor of Puerto Rico and classifies the land of the Municipality to accommodate future development, and to preserve valuable land areas and natural resources.

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The Municipality of Ceiba Store Sewer System (MS4s) in the urban area in general consists of a series of open channel culverts and match basins, typically located within the right-of-way of municipal and state roads, interconnected by underground concrete, corrugated steel or PVC pipes which normally discharge into the municipal creeks and streams. The Urban Area of Ceiba shares the main watersheds of the Fajardo and Demajagua Rivers; however the small watersheds of Aguas Claras, El Caño and Ceiba Creeks receive most of the pollutants coming from urban runoff. As the Ceiba Municipality implements the proposed Storm Water Management Program a more accurate map will be provided.

The rivers watersheds basically divide into the north and south part of the urban zone: Demajagua Watershed consists on the north side of the urban area, and it is cut in half by the PR-Road #3. Runoff from this area discharges into the Demajagua River and the Caribbean Sea. The runoff from areas east of PR- Road #3 will discharge on Ceiba, Caño and Aguas Claras Creeks. The Daguao River watershed consists on the southwestern tip of the urban area, located east of the PR-Road #3 and west to Ensenada Honda. Runoff from these areas will end up in the Caribbean Sea. (Appendix B)

8. Estimated square miles served by the MS4

The Ceiba's urban zone is located east of PR-3 and the José Celso Barbosa Expressway. It includes its traditional urban center (Pueblo Ward). The municipality has a territorial extension of 27.5 miles. Based on the 2000 Census, the municipal urban area has a population of 6,227 and a territorial extension of approximately 1.09 square miles (as defined by the Puerto Rico Planning Board). Based on EPA definition of *Urbanized Area*, the Ceiba urban territory was delineated from this urban center, 1.5 miles from the perimeter of this area and into areas directly connected by road for purposes of the Ceiba's MS4 Management Plan.

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9. Description of the Best Management Practices to be implemented by the Municipality

As required by the 40 CFR 122.34, Subpart B, the Municipality of Ceiba will develop a Storm Water Pollution Prevention Plan (SWPPP), to comply with the Clean Water Act provisions. The SWPPP will be based on the minimum control measures included in the paragraph (b) of the referred section. There are six minimum control measures that include: 1) Public education and outreach on storm water impacts, 2) Public Involvement and Participation, 3) Illicit discharge detection and & elimination, 4) Construction, 5) Post - Construction, 6) Pollution Prevention/Good Housekeeping. The Municipality of Ceiba will develop, implement and enforce actions in each of the minimum controls measures to protect our water quality, and reduce the discharge of pollutants in our Municipality. The Best Management Practices for the SWPPP of the Municipality of Ceiba will be based on the USEPA's National Menu of Stormwater Best Management Practices.

The following are the Six Minimum Control Measures and its BMP to be implemented by the Municipality of Ceiba in their MS4s. Also, the Municipality recognizing the time requirements established by the USEPA on the existing regulations will be diligent on implementing these measures in order to comply with the established timeline and criteria.

1) PUBLIC EDUCATION AND OUTREACH PROGRAM

This item describes the actions to be adopted by local residents to improve local surface water quality. Thru a coordinator, the municipality will provide local residents with simple tools to help improve the surface water quality in the municipality of Ceiba. The goal is to develop awareness among residents on the activities they carry on daily and are considered pollution-potential for the storm water system, and how they can avoid them.

1.1 Distribution of Storm Water related materials: Brochures, newsletters and leaflets

As recommended by the EPA's National Menu of Stormwater BMPs, the Municipality of Ceiba will develop a comprehensive public outreach strategy as a first step for public education. In partnership with the U.S. Environmental Protection Agency (USEPA) and State Agencies, the municipality will develop storm water related brochures and leaflets targeting specific groups within the community as a mean to make the public aware of their behavior towards storm water pollution. Brochures and leaflets racks will be set up at libraries, schools and municipal offices.

The educational materials will include information on avoiding excessive use of fertilizers, detergents and illegal dumping activities.

1.2 Local News and Media Campaign

The Municipality of Ceiba will develop a campaign using the regional newspapers (El Oriental, el Horizonte, De Todo) to reach thousands of local residents. The ads will be focused on the issues related to stormwater pollution and the strategies developed in the SWPPP to address them. This effort will increase the exposure of citizens to information relating how to prevent stormwater pollution.

1.3 Radio Campaign

The municipality will produce 15 and/or 30-second public service announcements (PSAs) at the local AM/FM stations. The PSA's will provide simple ideas on best management practices to improve local surface water and highlight the impacts of storm water within the community water bodies.

1.4 School Educational Campaign

The municipality will develop a stormwater outreach program aimed to the general student's population at local and private schools. Thru a coordinator the local government will produce and distribute information materials and brochures to all schools within Ceiba. The educational outreach program will include videos, Power Point® presentations, and written materials.

1.5 Web Page

Using the existing Ceiba's web page; www.ceiba-pr.com, a space for reporting illegal discharges and landfills, documents available on PDF and Word® format, associated with the SWPPP activities will be provided by the Municipality. The website will include a counter to monitor daily hits.

2) PUBLIC INVOLMENT AND PARTICIPATION PROGRAM

The Municipality of Ceiba recognizes the importance of the public involvement in the planning process and implementation of local initiative. In order to be successful, a comprehensive approach involving state, local agencies and Non Government Organizations will be used to get the support from our residents. Also, the Municipality is currently working on several projects aimed to improve surface waters in downtown Ceiba. The local administration has the goal of turning our Municipality in a Green City, and in order to achieve that, we had implemented several programs including: a reforestation, recycling, and urban forestry programs. Also, solar energy lightning infrastructure has been installed in many areas around downtown to minimize energy consumption and to lower local greenhouse emissions.

Best Management Practices that may be evaluated and included in the Stormwater Management Program of the Municipality includes:

2.1. Annual Cleanup and monitoring streams catch basins

The municipality shall promote an annual cleanup that will directly involve citizens in surface water pollution prevention and make the community aware that most storm drains discharge untreated waters directly into the river and ocean. The local administration will request the support from the general public and local business and organizations to conduct cleanups of streams and surface water channels. The municipality will coordinate the disposal of the collected garbage, and recyclable materials. The recyclable materials will be separated from trash and taken to a recycling facility. Also a stenciling program will be developed targeting all urban storm drains in the urban area. This program will elicit volunteers from community and environmental groups as well as teachers to identify the storm drains.

2.2. Reforestation Programs

The municipality has identified a series of areas within the urban zone in need of reforestation. These areas will help improve surface water quality. In cooperation with the Puerto Rico Department of Natural and Environmental Resources the municipality will identify the native species that would provide appropriate cover to help in minimizing urban runoff and improve habitat for local fauna.

3) **ILLICIT DISCHARGE DETECTION AND ELIMINATION**

As recommended in the EPA's National Menu of Stormwater BMPs, the Municipality of Ceiba will develop an Illicit Discharge Detection and Elimination Program. This program will be developed using the Illicit Discharge Detection and Elimination: A Guidance Manual for Program Development and Technical Assessments. This section of the plan has been developed to detect and eliminate illicit discharges, as defined in 40 CFR § 122.26(b) (2), into the MS4 of the urban area in the Municipality of Ceiba. The plan includes procedures for locating priority areas likely to have illicit discharge, procedures for removing the source of the discharge, and procedures for program evaluation and assessment. In order to meet the permit requirements and objectives established by the EPA, the following best management practices are to be implemented by the Municipality of Ceiba:

3.1. Program to Detect Failing: Septic Systems

The Puerto Rico Environmental Quality Board (EQB) has current regulations for the proper siting, sizing and maintenance of septic systems. The municipality will develop a program to detect failing septic systems and notify its findings to the EQB for proper enforcement. A Hotline will be provided by the Municipality to collect calls from local residents to conduct inspection on failing septic systems or illegal discharges. Inspections will be performed on an annual basis to those residential areas not served by the Puerto Rico Sewer and Aqueducts Authority. The Ceiba's sanitary sewer system is limited to a portion of the urban area. Rural communities usually lack this service which forces the use of septic tanks.

3.2. Program to Direct and Eliminate Illegal Dumping

Illegal dumping is a major pollution problem faced by all municipalities in Puerto Rico and Ceiba is no exception. The Ceiba, El Caño y Aguas Claras creeks are the most affected. Through current ordinances, the municipality has prohibited illegal disposal of waste in an unpermitted area such as creeks, channels, streams and rivers or into a storm drain system. The municipality will develop and implement all procedures, programs, and actions required to appropriately enforce these regulations.

3.3. Program to Detect and Eliminate Illicit Discharges

The municipal government of Ceiba will develop a plan to detect and eliminate illicit discharges. This plan to detect and address illegal discharges to the system will include four steps: locate problem areas, find the source, remove or correct illicit connections, and document the ensuing course of action. A Hotline will be provided by the Municipality to collect calls from local residents to conduct inspection on illegal discharges.

3.4. Program to Detect Identify and Eliminate Wastewater Connections to the Storm Drain System

Current state laws prohibit unwarranted connection of a wastewater system to a storm drain system. The municipality will implement all actions required to appropriately enforce this law.

3.5. Storm Sewer System Map

The local Department of Public Works owns an old infrastructure map for the urban area of Ceiba. As part of the proposed activities a storm drain system map will be developed in the first year. Once completed, this map will aid the municipality in targeting outfalls with dry weather flows and other suspicious discharges for more in-depth inspection and monitoring and will help coordinate management activities to remove illicit connections and track storm drain system maintenance.

4) CONSTRUCTION SITE STORM WATER RUNOFF CONTROL

The proposed SWPPP activities will focus on developing, implementing, and enforcing a program that will reduce or eliminate the impacts of storm water runoff from construction activities throughout the municipality. In order to meet the permit requirements and objectives established by the USEPA, the following best management practices are to be implemented by the Municipality of Ceiba:

- 4.1. Procedures for Reviewing Construction Site Plans
- 4.2. Inspection and Enforcement of Storm Water Requirements at Construction Sites
- 4.3. Inspection of Sanitary Sewer Connections
- 4.4. Require Electronic copies of Sanitary and Sewer Systems Layouts

5) POST CONSTRUCTION STORMWATER MANAGEMENT IN DEVELOPMENT AND REDEVELOPMENT

In order to mitigate Stormwater impacts from new developments within our Municipal boundaries, the local administration will evaluate as BMPs those recommended in the USEPA's National Menu of Stormwater BMPs. As part of the post-construction plan review the Municipality will revise the existing process assessing development projects and will integrate

the EPA's recommendations into this process. The Municipal government of Ceiba has been working on new zoning plans thru local Land Use Plan. This Plan shall be approved by the PR Planning Board, and the Governor of Puerto Rico, and it is the base document used by agencies during the permitting process for all projects proposed within our municipality. Additional zoning restrictions that the municipality may apply will be carefully analyzed as part of the development of our SWPPP.

6) POLLUTION PREVENTION (GOOD HOUSEKEEPING FOR MUNICIPAL OPERATIONS)

In order to protect our storm water system within our MS4, we will develop and implement a Municipal Employee Training and Education program, with the goal of educating our own employees on the best practices used to protect the quality of our surface waters. The program will also help in monitoring our daily operations and to identify those activities conducted by our employees that may have an impact in the local environment. This educational program will include written materials, conferences, workshops, and seminars.

10. Description of Measurable goals for each Best Management Practice

PUBLIC EDUCATION AND OUTREACH PROGRAM	Control Measures/Goals
Permit Term	Activity
Year 1	<ol style="list-style-type: none"> 1. Distribution of stormwater related material: brochures, leaflets and flyers. 2. Newspaper Campaign. 3. Radio Campaign.
Year 2	<ol style="list-style-type: none"> 1. Newspaper Campaign. 2. School Educational Campaign. 3. Web Page.
Year 3	<ol style="list-style-type: none"> 1. Distribution of stormwater related material: brochures, leaflets and flyers. 2. Newspaper Campaign. 3. Radio Campaign.
Year 4	<ol style="list-style-type: none"> 1. Newspaper Campaign. 2. School Educational Campaign. 3. Web Page.
Year 5	<ol style="list-style-type: none"> 1. Distribution of stormwater related material: brochures, leaflets and flyers. 2. Newspaper Campaign. 3. Radio Campaign.

PUBLIC INVOLMENT AND PARTICIPATION PROGRAM	
Permit Term	Activity
Year 1	1. Annual Cleanup and monitoring (streams and catch basins).
Year 2	1. Annual Cleanup and monitoring (streams and catch basins). 2. Reforestation Programs.
Year 3	1. Annual Cleanup and Monitoring (streams and catch basins).
Year 4	1. Annual Cleanup and monitoring (streams and catch basins). 2. Reforestation Programs.
Year 5	1. Annual Cleanup and monitoring (streams and catch basins).
ILLICIT DISCHARGE DETECTION AND ELIMINATION	
Permit Term	Activity
Year 1	1. Visual inspection in communities served by septic tanks. 2. Dry weather test on critical manholes. 3. Urban area outfalls visual inspection. 4. Develop a Storm Sewer System Map. 5. Visual inspection to old sanitary pipelines.
Year 2	1. Visual inspection to industries. 2. Urban area outfalls visual inspection. 3. Information booklets on septic system's proper maintenance. 4. Visual inspections to old sanitary pipelines.
Year 3	1. Visual inspection in communities served by septic tanks. 2. Dry weather test on critical manholes. 3. Urban area outfalls visual inspection. 4. Develop a Storm Sewer System Map. 5. Visual inspection to old sanitary pipelines.
Year 4	1. Urban area outfalls visual inspection. 2. Complete Storm Sewer System Map. 3. Visual Inspection to old sanitary pipelines. 4.

Year 5	<ol style="list-style-type: none"> 1. Dry Weather Test on critical manhole. 2. Urban area outfalls visual inspection. 3. Visual Inspection to old sanitary pipelines.
CONSTRUCTION SITE STORM WATER RUNOFF CONTROL	
Permit Term	Activity
Yearly	<ol style="list-style-type: none"> 1. Review construction site plans. 2. Construction site inspections. 3. Assuring proper sanitary connections. 4. Require electronic copies of sanitary and sewer lines
POST- CONSTRUCTION STORMWATER MANAGEMENT IN DEVELOPMENT AND REDEVELOPMENT	
Permit Term	Activity
Yearly	<ol style="list-style-type: none"> 1. Coordinate with contractors, developers, and state regulatory agencies to assure the project is in compliance with state and federal laws and with any other regulatory agency requirements. 2. Construction site plan reviews.
POLLUTION PREVENTION (GOOD HOUSEKEEPING FOR MUNICIPAL OPERATIONS)	
Permit Term	Activity
Year 1	<ol style="list-style-type: none"> 1. Develop SPCC Plan for DTPW facility. 2. Install grease traps on mechanical shop drain system at DTPW facility. 3. Install secondary containment to both diesel and used oil tanks.
Year 2	<ol style="list-style-type: none"> 1. Municipal employee trainings (every two years). 2. Improve storm water management for the sanitary transfer station.

11. Person Responsible for implementation

Alberto López, Director of Public Works.

12. Certification

"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 gather and evaluate 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 Responsible Official

Hon. Pedro Colón Osorio

Mayor