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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: Municipality of Morovis
2. Type:  Federal  State  Municipality  Other: \_\_\_\_\_
3. Existing Permittee:  Yes  No If yes, provide EPA NPDES Permit Number: PRR040046
4. Location Address:
  - a. Street: Casa Alcaldia
  - b. Calle del Carmen
  - c. City: Morovis  
State: PR Zip Code: 00687
5. Mailing Address:
  - a. Street: P.O. Box 655
  - b. City: Morovis State: PR Zip Code: 00687-0655
6. Telephone Number: 787-862-2155 Fax: 787-862-2421
7. E-mail: secmunicipal@morovis.pr.gov ; federales@morovis.pr.gov
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.*  
18°19'32.81"N (degrees, minutes, seconds) 66°24'23.62"W (degrees, minutes, seconds)

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

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

1. Name: Ariel H. Soto Irizarry
2. Position Title: Director of Federal Programs
3. Stormwater Management Program (SWMP) Location (web address or physical location): Casa Alcaldia , Federal Programs Office, Calle del Carmen, Morovis, PR 00687.

4. Mailing Address:
- a. Street: P.O.Box 655
- b. City: Morovis State: PR Zip Code: \_\_00687-0655
5. Telephone Number: 787-862-2155 Ext. 2323
6. E-mail: federales@morovis.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 Morovis Municipality is located on the central region of Puerto Rico, thus presents a very steep topography typical of the region. It is adjacent to the north of Orocovis; the south of Manati, Vega Baja and Vega Alta; the east of Ciales; and the west of Corozal. Morovis Municipality location coordinates are as follows:

Most of the stormwater runs on surface drainage infrastructure, which drains into one of the three main surface water bodies, Unibón River to the east, Quebrada Grande de Morovis and Morovis River to the west. The underground infrastructure is mainly used for discharge into the receiving water bodies. The two main objectives of the infrastructure maps are to determine general stormwater flow direction on each road, underground pipeline location and the final receiving body. The three main surface water bodies will be inspected for illegal connections and elevations will be gathered across the bodies along with cross sections at bridges and street crossing to determine hydraulic properties. Attachment A includes a map, which provides details about the urbanized area of the Municipality of Morovis.

**HYDROGRAPHY**

The waterbodies that cross through the Municipality of Morovis are sub-watersheds of the Rio Grande de Manati. The Municipality of Morovis does have TMDL requirements. The Morovis Municipality is located on the central region of Puerto Rico, thus presents a very steep topography typical of the region. Most of the stormwater runs on surface drainage infrastructure, which drains into one of the three (3) main surface water bodies, Unibon River to the east, Quebrada Grande de Morovis and Morovis River to the west. The underground infrastructure is mainly used for discharge into the receiving water bodies. The two (2) main objectives of the infrastructure

maps will be to determine the general storm-water flow direction on each road, underground pipelines location, and the final receiving body.

The Municipality of Morovis is not planning to rely on any other government entity regulated under the storm water regulations to satisfy any permit or Storm Water Management Program (SWMP) requirements.

The best management practices (BMPs) and measurable goals chosen to meet each of the six (6) minimum control measures (MCM) included in the General Permit are described in the Municipality of Morovis SWMP planning document. On the SWMP is available a detailed description of the BMPs, measurable goals, schedule, and responsible persons, which will implement the Program.

The Municipality of Morovis certifies by the submittal of this NOI that all eligibility criteria for protection of threatened or endangered species, critical habitat, and historic properties have been met. Marine fisheries criteria are not applicable to the Municipality of Morovis.

On march 2021, EDS on behalf of the Municipality of Morovis, using the Information for Planning and Consultation (IPaC) system has determined that the proposed project site lies within the range of the Puerto Rican boa (*Epicrates inornatus* now known as *Chilabothrus inornatus*). EDS has determined that the proposed project has **no effect** on the Puerto Rican boa since the project is limited to urban areas, there will be no expansion or new construction. According to the information provided by EDS and after evaluating all the information available, the project area existing conditions does not harbor suitable habitat for the species. Therefore, we believe that there would be no effects to the Puerto Rican boa. No further consultation is needed.

Finally, In the previous consultation to the Puerto Rico State Historic Preservation Office (PR\_SHPO) under the National Historic Preservation Act it was found that the MS4 operated by Morovis meets **Criteria B** of the General Permit which states that the storm water discharges from the Municipality of Morovis do not affect a property that is listed or is eligible for listing on the National Register of Historic Places as maintained by the Secretary of the Interior. On March 2021, a second consultation has been done to SHPO and we are waiting for their response which we don't expect to be different.

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): 0%

a. If 100% of 2006 requirements are not met, enter an estimated date of completion: 12/30/2021

(MM/DD/YYYY)

- b. Web address where MS4 map is published: See attached maps (Attachment A)  
*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: 09/19/2015  
 (MM/DD/YYYY)

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

a. Effective Date or Estimated Date of Adoption: 09/19/2015  
 (MM/DD/YYYY)

3. Post-Construction Stormwater Management adopted?  Yes  No

a. Effective Date or Estimated Date of Adoption: 09/19/2015  
 (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)
Unibón River		No		
Quebrada Grande de Morovis		No		

Morovis River		No		
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#### 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
Public Education and Outreach				
1. Develop general awareness education materials	No	Yes	General public, regulated community. Lack of resources.	Expanding the material to a digital format due to Covid19 restrictions.
2. Organize community activities and meetings for public outreach	No	Yes	General public, regulated community. Lack of resources	Include more videos and distance connections due to Covid19 restrictions.
3. Post general information about the stormwater on the municipal website	Yes	Yes	General public, regulated community. Lack of resources	Expand posts to social networks as Facebook, Instagram, twitter, among others.
4. Assign a phone number for environmental and Stormwater complaints.	Yes	Yes	General public, regulated community.	Expand the use of the social networks as Facebook, Instagram, twitter, among others to post and receive complaints.

5. Develop an awareness survey	No	No	General public, regulated community.	Public opinion will be assessing through social networks.
6. Develop a training program for municipal employees	Yes	Yes	Municipal personnel	Include municipal contractors.
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
Public Participation and Involvement				
7. Develop a community Stormwater management program committee	No	Yes	Regulated community leaders. Lack of resources and personnel.	Modified the concept given de COVID19 restrictions. For example, the committee could implement the use of remote tools to meet and discuss (e.g. Zoom).
8. Community workplan for the implementation of the SWMP	No	Yes	General public, regulated community. Lack of resources and personnel	Modified the concept given de COVID19 restrictions. For example, the committee could implement the use of remote tools to meet and discuss (e.g. Zoom).
9. Community activities regarding the SMWP	No	Yes	General public, regulated community. Lack of resources and personnel	Covid10 protocols would be followed during these activities.

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
Illicit Discharge Detection and Elimination Program				
1. Stormwater sewer map	No	Yes	Permit area. Regulated community. Lack of resources.	Use of existing digital information (projects), Google Earth and AutoCAD to produce the map. Field confirmation. Incorporate field inspectors.
2. Evaluate main storm drains outlets in the municipality MS4	No	Yes	Permit Area. Regulated community. Lack of resources and personnel	Use of existing digital information (projects), Google Earth and AutoCAD to produce the map. Field confirmation. Incorporate field inspectors.
3. Inspection and evaluation of facilities that manages bulk products	No	Yes	Industrial activities. Lack of resources and personnel.	Inspection of all projects and activities with the potential of discharging
4. Develop an Ordinance to identified and eliminate illegal discharges.	Yes	Yes	General public, regulated community.	Include the erosion and sediment control section.



5. Training to evaluate Stormwater drains	No	Yes	Municipal personnel. Lack of resources and personnel.	Develop a training for the municipal personnel.
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
Construction Site Storm Water Runoff				
1. Develop the erosion and sediment control Ordinance	No	Yes	General public, regulated community. Municipal inspectors. Lack of resources and personnel.	
2. Inspection and erosion and sedimentation controls in construction projects	No	Yes	Municipal personnel. Lack of resources and personnel.	Inspection of all projects and activities with the potential of discharging
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
Post Construction				
1. Evaluate a development of municipal plan to protect the water bodies after construction projects	No	Yes	Regulated Community. Project development. Lack of resources.	
2. Stormwater best management practices in construction projects.	No	Yes	Regulated Community. Project development. Lack of resources.	

Pollution Prevention/Good housekeeping				
1. Develop municipal Spill Prevention Plan for the Municipal Public Works area	No	Yes	Municipal personnel. Lack of resources and personnel.	
2. Activities to collect household hazardous solid waste	No	Yes	General public. Regulated community. Lack of resources.	Maintain the coordination with the Solid Waste Authority (SWA)
3. BMP Guides	No	Yes	Municipal personnel. Lack of resources.	
4. Training municipal public works employee	Yes	Yes	Municipal personnel	Develop a training program.

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)	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.)
1. <b>Public Education and Outreach</b>	An educated and informed population is crucial for successful implementation and success of this program. If the public understands the importance of the program the municipality will have the support to achieve compliance. Public participation is vital to develop support and a sense of responsibility, to implement the plan according to the itinerary, to provide economic benefits, and to increase the participation in others municipal programs.	
2. Public access to SWMP material.	Maintain all documents pertaining the SWMP available to public consulting at an identified location in the municipal building. Notify this on the website	At least one hard copy of the relevant documents of the program (SWMP, Annual reports, educational material, brochures, among others. Electronic files will be available.
3. Municipal personnel Training Program	Continue offering training on SWMP to the Municipality personnel.	Train 100% of required personnel.
4. Education to children and youth.	Continue with workshops targeted at school children as well as participants of the summer camps (following COVID19 protocol) sponsored by the municipal government. Due to the COVID19 restrictions, recorded sessions and virtual workshops could be organized to complement the regular sessions until face to face reunions are approved.	Number of participants attending summer camps to be identify by year of attendance and place where the workshop was offered (Following COVID19 protocol).  Number of summer camp offered every year. (Following COVID19 protocol).  Number of virtual sessions & number of participants during virtual sessions.

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

5. Webpage and Social Networks post	Include information and educational messages of the SWMP on the webpage and social networks of the municipality. Post information of the SWMP on Morovis Facebook page ( <a href="https://www.facebook.com/Morovis.gov/">https://www.facebook.com/Morovis.gov/</a> ) and Twitter Account (Alcaldesa Morovis @CarmenMorovis).	Number of posts related to the SWMP  Number of comments related to these posts or stormwater issues and activities.
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**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.)
Public Participation and Involvement	Public participation is vital to develop support and a sense of responsibility, to implement the plan according to the itinerary, to provide economic benefits, and to increase the participation in others municipal programs.	
1. Include a Stormwater booth in local fairs.	Sponsor a booth with information on SWMP in at least one major event such as Earth Day, health fairs, local celebrations, among others.  Promote virtual events including at least one related to SWMP topic.	Number of visitors to the booth Number of events  Number of virtual events and participants.
2. Post messages in social networks	Post news and articles related to SWMP Program in the Municipality web page and social media networks as Facebooks, Twitter, among others.	Number of posts related to the SWMP  Number of comments related to these posts or stormwater issues and activities.

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

3. Manage public complains related to Stormwater	Develop a complain system to attend regular public in topics and issues related to stormwaters.	Number of complaints by the public. Number of solved cases.
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**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.)
<b>Illicit Discharge Detection and Elimination</b>	Illicit discharges are considered "illicit" because MS4s are not designed to accept, process, or discharge such non-storm water wastes. By reducing illicit discharges storm waters are protected from pollutants.	
1. Reduce organic discharges to the water bodies through the Stormwater system.	Focus on lowering the load of fecal coliforms carry by storm waters, fields inspections will be continued in those areas that lack a sanitary sewer system and use septic tanks for wastewater disposal.	Reduce waste water discharge to the storm water system 100% at the end of the period.
2. <b>Monitoring dischargers during dry weather</b>	Create a program to record any discharge during dry weather	Document each discharge and eliminate the discharge.
3. <b>Continues inspections of business to detect illegal discharges</b>	Continue to update the list of the establishments in Morovis and perform periodic inspections of them to assure no illicit connections exist	Inspect 100% of business at the end of the period.

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

<p>4. Apply the municipal ordinance and</p>	<p>Apply the ordinance that establishes penalties and fines to the construction sites found in non-compliance with the Phase II NPDES permit requirements</p>	<p>Number of cases.</p>
<p>5. Train the personnel to maintain to identify and eliminate illegal discharges.</p>	<p>Continue with the training to the municipality public work personnel, municipality employees and the community on the hazards caused by improper waste disposal. Continue to investigate and carry out an action plan to eliminate all illicit discharges reported.</p>	<p>Number of trainings to be offered  Closing 100% of reported illicit discharges.</p>
<p>6. Mapping the stormwater system.</p>	<p>Develop a mapping program of the SW system in the urban areas, including inlets and outlets/outfalls.</p>	<p>Percentage of coverage. Number of inlets, outlets and outfalls.</p>

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

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.)
<p><b>Construction Sites Run-Off Control</b></p>	<p>Polluted storm water runoff from construction sites often flows to MS4s and ultimately is discharged into local rivers and streams. The resulting contribution of other pollutants from construction sites can cause physical, chemical, and biological harm to waterways. The Program focus on preventing pollutants from reaching storm waters.</p>	
<p>1. Revise the actual ordinance or create a new one for erosion and sedimentation.</p>	<p>Develop an Ordinance to control erosion and sedimentation.</p>	<p>A revise or new ordinance.</p>

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

2. Interagency liaison.	Establish liaison with local agencies as PRASA, and DRNE to attend violations to the MS4 permit.	Process 100% of the violations.
3. Maintain inspections on the non-municipal construction activities.	Inspect and report constructions activity causing sediments going to the stormwater system (Prevention of erosion).	Perform a site visit to 100% of the construction projects over 1 hectare.
4. Train personnel and contractors on the SWMP	Provide training to those contractors retained by the municipal government on SWMP and best management practices	Number of trainings offered Number of participants.
5. Maintain inspections on the municipal construction activities.	Carry out field inspections to those construction projects in the municipality of Morovis	Inspect 100% of the projects at least once during the phase of construction.

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

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.)
Post-Construction Run-Off Control	By developing, implementing, and enforcing a program to address discharges of post-construction storm water runoff from new development and redevelopment areas pollutants reaching storm water can be reduce. Applicable controls could include preventative actions such as protecting sensitive areas (e.g., wetlands) or the use of structural controls	

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

1. Revise the actual ordinance or create a new one for erosion and sedimentation.	Develop an Ordinance to control erosion and sedimentation.	A revise or new ordinance.
2. Follow up inspections on developed areas	Maintain inspection of the developed areas to monitor the operation of the Stormwater system.	Number of inspections Number of complaints

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

BMP Description or BMP ID (e.g. MCM-1)	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.)	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>Pollution Prevention/ Good Housekeeping</b>	By implementing a program focus on reducing the amount and type of pollution that collects on streets, parking lots, open spaces, storage and vehicle maintenance areas privation is achieved in discharging pollutants into local waterways; and on cleaning and adequate maintenance to municipality outdoors.	
1. Maintaining of the SW System with emphasis on the key areas.	Clean critical portions of the Morovis storm sewer system at least once per year.	Clean 100% of the critical stormwater drainages.
2. Sweeping activities	Maintain a program of sweeping the streets of Morovis.	Number of areas served Amount of debris removal.




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

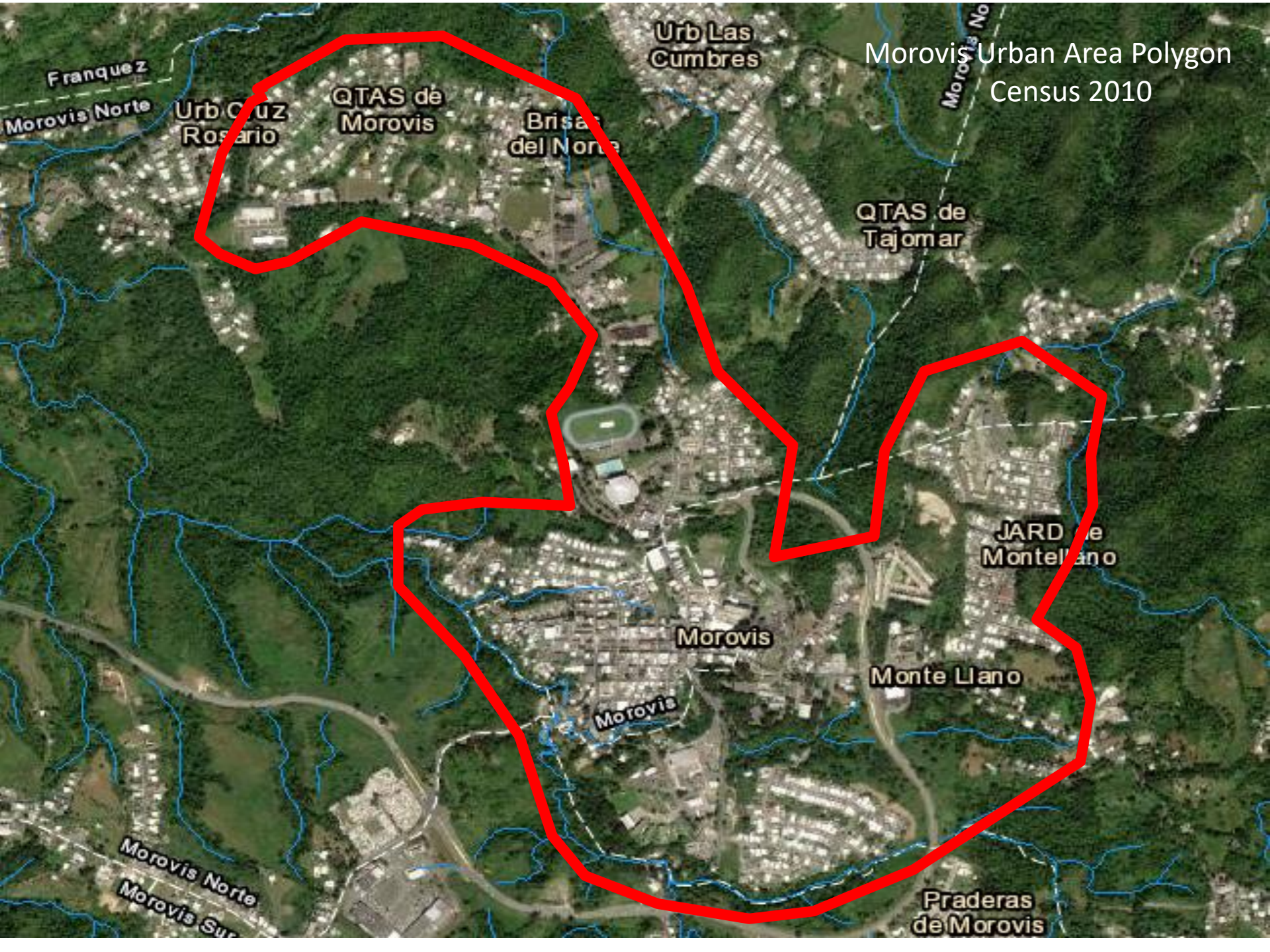
3. Waste collection and recycling.	Assist the community by providing waste collection.	Number of services provided. Establish a route and public schedule for debris collection Amount of debris removal.
4. Prepare procedures for key operations.	Develop an SOPs for the handling of wastes, oil, debris and sediments generated during the Municipality operations (Public Works)  Perform periodic inspections to Morovis facilities to verify their compliance with the SWMP.	Number of SOP developed  Number of inspections
5. Water bodies cleaning campaign	Develop a program to clean and remove debris at the Morovis water bodies.	Cleaning at least once per year each water body, and at least twice to those in flooding areas.
6. Train the municipal personnel in key procedures.	Train the municipal operations personnel in good housekeeping practices during routine activities such as oil/used oil management, painting, gardening, waste management, cleaning, etc.	Number of trainees per year  Train 100% of the municipal operations on the SOP for material and waste storage, handling, and disposal.

**Part I. 2016 Stormwater Management Program (SWMP) Summary (continued)****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: Carmen I. Maldonado GonzálezTitle: Mayor Date: 04-23-2021

## ATTACHMENT A



Morovis Urban Area Polygon  
Census 2010

Franquez

Morovis Norte

Urb Cruz  
Rosario

QTAS de  
Morovis

Brisas  
del Norte

Urb Las  
Cumbres

Morovis No

QTAS de  
Tajomar

JARD  
de  
Montellano

Morovis

Monte Llano

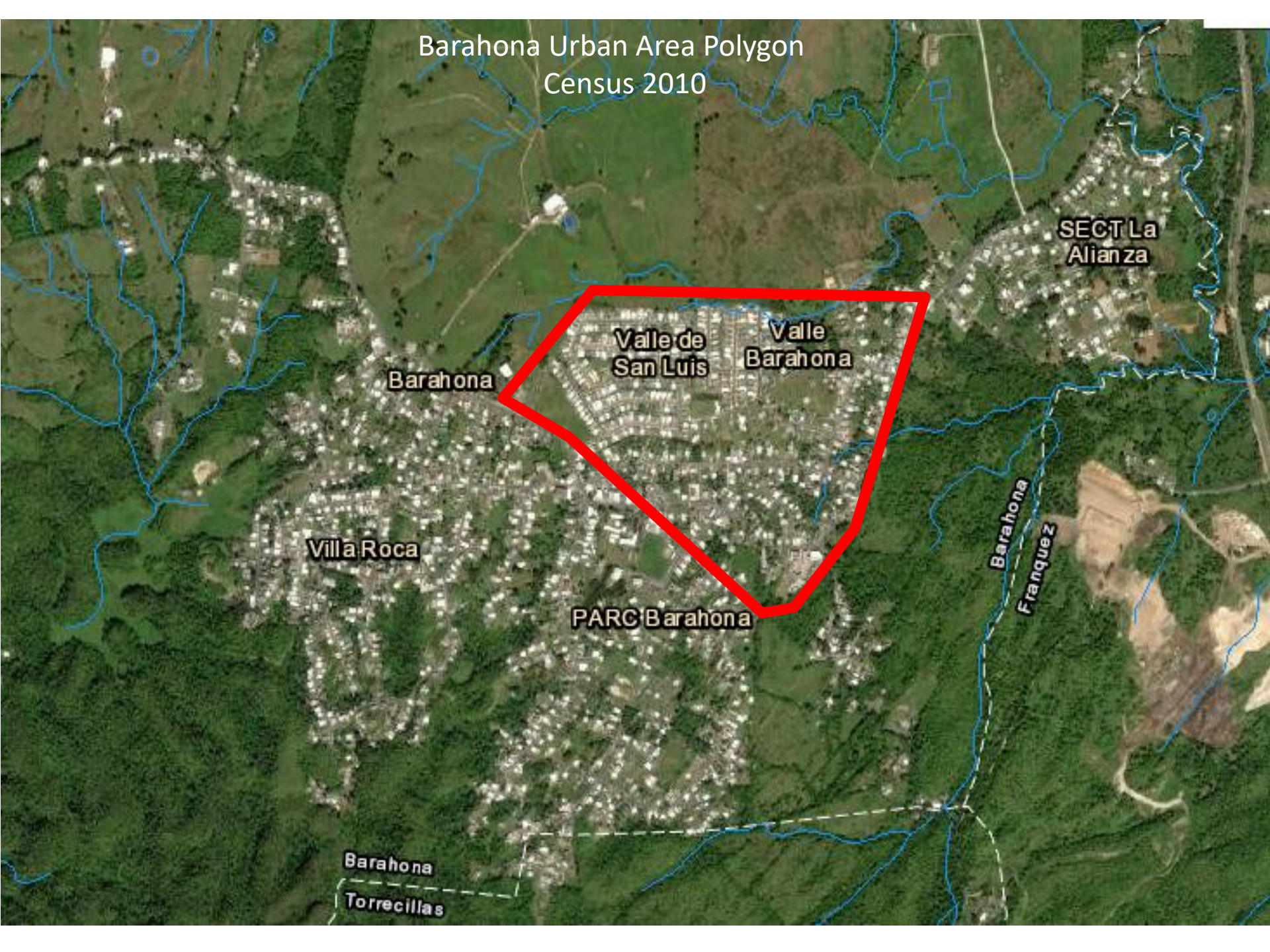
Morovis

Praderas  
de Morovis

Morovis Norte

Morovis Sur

Barahona Urban Area Polygon  
Census 2010



Barahona

Vale de  
San Luis

Vale  
Barahona

SECT La  
Alianza

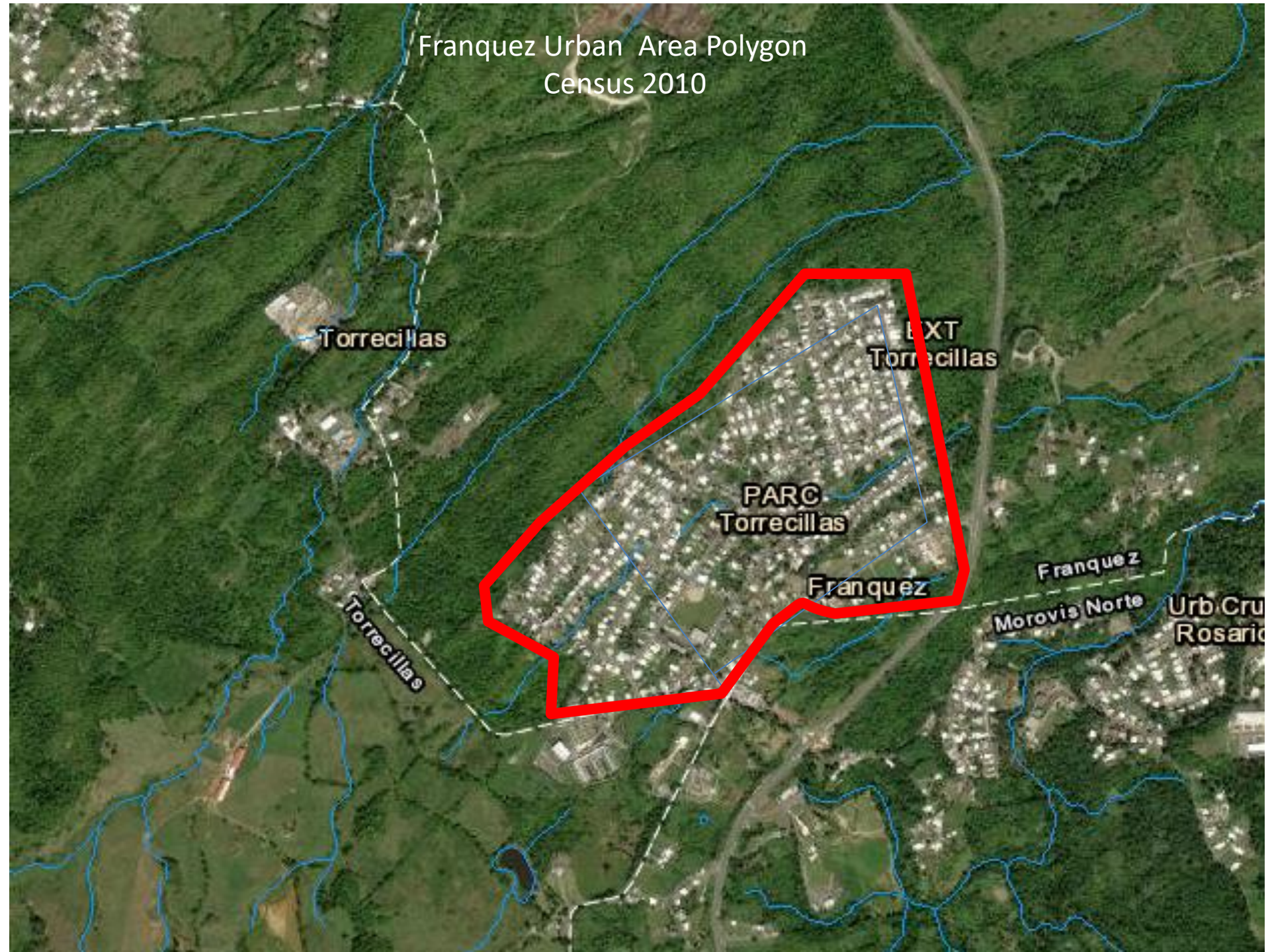
Villa Roca

PARC Barahona

Barahona  
Franquez

Barahona  
Torrecillas

Franquez Urban Area Polygon  
Census 2010



Torrecillas

EXT  
Torrecillas

PARC  
Torrecillas

Franquez

Torrecillas

Franquez  
Morovis Norte

Urb Cru  
Rosario