

U.S. Department of Housing and Urban Development

451 Seventh Street, SW Washington, DC 20410 www.hud.gov espanol.hud.gov

Environmental Review for Activity/Project that is Categorically Excluded Subject to Section 58.5 Pursuant to 24 CFR 58.35(a)

Project Information

Project Name: PR-RGRW-01327-W-RE

HEROS Number: 900000010365406

Start Date: 11/14/2023

State / Local Identifier:

Project Location:, Barranquitas, PR 00794

Additional Location Information:

Coordinates: Greenhouse location: latitude 18.237132, longitude - 66.347909 Cistern 1 location: latitude 18.238488, longitude -66.347243 Cistern 2 location: latitude 18.238762, longitude -66.347711 Electric generator: latitude 18.236635, longitude -66.348323 Parcel cadastral # 220-035-230-83; 220-035-230-81 Coordinates: Fence location: latitude 18.214155, longitude -66.399803; latitude 18.213738, longitude -66.399313 Parcel cadastral # 245-017-109-16; 245-007-109-03

Description of the Proposed Project [24 CFR 50.12 & 58.32; 40 CFR 1508.25]:

This project (PR-RGRW-01327-W-RE) entails the award of a grant to Miguel Marrero Torres/ DBA Finca Sector Los Marrero, an agricultural business, at Carr. 772 Km. 7.8 Interior Bo. Canabon, Sector Los Marrero, Barranquitas /Carretera 155, KM 23.7 Int, Barrio Saltos, Sector Los Rosados, Orocovis, PR. Tax ID Numbers: Barranguitas: 220-035-230-83, 220-035-230-81; Orocovis: 245-017-109-16, 245-007-109-03. Project Coordinates: Barranquitas: 18.237132 -66.347909, 18.238488 -66.347243, 18.238762 -66.347711; Orocovis: 18.214155 -66.399803, 18.213738, -66.399313. This project had an original CENST review which included the purchase of farm equipment including a sprayer, fertilizers, yam seeds, plow, plow blades and oxen yoke for project cost of \$30,139.55. See attached CENST environmental review. This review includes scope items previously considered as an EA level of review (cisterns, agricultural equipment, agricultural infrastructure, greenhouse, generator) which are now evaluated as CEST level of review in accordance with FR-6492-N-01 with a project cost of \$19,161.55. The proposed activities consist of the purchase and installation of a 20' x 20' greenhouse, two 1,000-gallon cisterns, an electric inverter generator, agricultural equipment and agricultural infrastructure. The agricultural equipment includes: Prunell PPT 2620, Blower PB 9010, thread rolls, mesh masks, plastics mesh, telescopic manual bar, aprons, one gallon of mixture, Arnett STHIL and caps. The agricultural infrastructure includes treated posts, barbed wire, hole making machine, augers, a saw and PVC tubes and they will be used for the construction of a fence. The greenhouse measures 20' x 20' and will be anchored to 10' spaced supports buried 2 feet deep, and will be built with aluminum pillars and arches and a plastic cover on the roof. The proposed area for the installation of the greenhouse will be leveled. The water needed for the greenhouse will come from the new cisterns and all pipes will be above

ground. The two cisterns will be installed on plastic pallets on bare soil provided by the applicant and it will not be necessary to construct a concrete slab. The water needed to fill the cisterns will be provided by an existing communal water well and transported via above ground pipes. The electric inverter generator is to pump water into the cisterns, and it does not require a transfer switch. No new connections will be necessary. The new generator is a SUA 8000iE - 8000 Watt (10.7 hp) and will be stored in an existing structure. The generator will be moved depending on where it would be needed. The proposed activities in the Municipality of Orocovis involve the installation of a barbed wire fence as a pig enclosure with 10-12 inches wide posts buried 6-8 inches deep. The fence will measure approximately 3,300 linear feet. No water or electricity connections will be necessary. The project Miguel Marrero Torres/ DBA Finca Sector Los Marrero, PR-RGRW-01327-W-RE has been evaluated in accordance with FR-6492-N-01. The activities identified CE: #6 - 6. 7 CFR 799.32 (d) (3) (i): Fence installation and replacement. HUD Level of Review: CENST. Potential application to HUD activities: Fence installation and replacement that support agricultural needs, without ground disturbance, CE: #7 - 7. 7 CFR 799.32(e) (2) (iii): Construction of a new farm storage facility. HUD Level of Review: CEST. Potential application to HUD activities: Construction of a new farm storage facility with ground disturbance, and CE: #10 - 10. 7 CFR 799.32(e) (2) (xxxvii): Watering tank or trough installation, if in areas not previously disturbed. HUD Level of Review: CEST. Potential application to HUD activities: Agricultural watering tank or trough installation that includes new ground disturbance have been classified as CENST and CEST under the waiver.

Level of Environment Review Determination:

Categorically Excluded per 24 CFR 58.35(a), and subject to laws and authorities at §58.5: 58.35(a)(3)(iii)

Funding Information

Grant Number	HUD Program	Program Name	
B-17-DM-72-	Community Planning and	Community Development Block Grants	\$0.00
0001	Development (CPD)	(Disaster Recovery Assistance)	
B-18-DE-72-	Community Planning and	Community Development Block Grants	
0001	Development (CPD)	(Disaster Recovery Assistance)	
B-18-DP-72-	Community Planning and	Community Development Block Grants	\$0.00
0001	Development (CPD)	(Disaster Recovery Assistance)	
B-19-DP-78-	Community Planning and	Community Development Block Grants	\$0.00
0002	Development (CPD)	(Disaster Recovery Assistance)	

Estimated Total HUD Funded Amount: \$19,161.55

Estimated Total Project Cost [24 CFR 58.2 (a) (5)]: \$19,161.55

Mitigation Measures and Conditions [CFR 1505.2(c)]:

Summarized below are all mitigation measures adopted by the Responsible Entity to reduce, avoid or eliminate adverse environmental impacts and to avoid non-compliance or non-conformance with the above-listed authorities and factors. These measures/conditions must be incorporated into project contracts, development agreements and other relevant documents. The staff responsible for implementing and monitoring mitigation measures should be clearly identified in the mitigation plan.

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Law, Authority, or Factor	Mitigation Measure or Condition	Comments on Completed Measures	Complete
Endangered	The United States Fish and Wildlife Service	N/A	
Species Act	(USFWS) Caribbean Ecological Services Field		
	Office reviewed the information provided		
	and their files, and on January 10, 2025		
	concurred with the determination that the		
	proposed project actions will have May		
	Affect, but is Not Likely to Adversely Affect		
	(NLAA) the Puerto Rican Boa, Puerto Rican		
	Parrot, and Puerto Rican Broad-Winged		
	Hawk. The USFWS NLAA concurrence is		
	conditioned to the following: (1) if a Boa is		
	encountered, the Conservation Measures		
	will be in accordance with the USFWS		
	Puerto Rican Boa Conservation Measures		
	2024, (2) if a Puerto Rican Parrot is		
	encountered on the site, the USFWS		
	Caribbean Office will be notified		
	immediately and (3) if a Puerto Rican		
	Broad-winged Hawk is encountered on the		
	site, the USFWS Caribbean Office will be		
	notified immediately. Obligations under		
	section 7 of the Act must be reconsidered		
	if: (1) new information reveals impacts of		
	this identified action that may affect listed		
	species or critical habitat in a manner that		
	was not previously considered; (2) this		
	action is subsequently modified in a		
	manner not previously considered in this		
	assessment; or, (3) a new species is listed,		
	or critical habitat determined that may be		
	affected by the identified action. In		
	conclusion, the USFWS concurred with the		
	CDBG-DR/MIT Permits and Environmental		
	Compliance Division NLAA determination.		
	However, the applicant must be informed		
	about the conditions of the determination		
	of concurrence and implement them as		
	described.		

Determination:

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		This categorically excluded activity/project converts to EXEMPT per Section 58.34(a)(12), because it does not require any mitigation for compliance with any listed statutes or authorities, nor requires any formal permit or license; Funds may be committed and drawn down after certification of this part for this (now) EXEMPT project; OR					
	X	This categorically excluded activity/project cannot convert to Exempt status because one or more statutes or authorities listed at Section 58.5 requires formal consultation or mitigation. Complete consultation/mitigation protocol requirements, publish NOI/RROF and obtain "Authority to Use Grant Funds" (HUD 7015.16) per Section 58.70 and 58.71 before committing or drawing down any funds; OR					
		This project is not categorically excluded OR, if originally categorically excluded, is now subject to a full Environmental Assessment according to Part 58 Subpart E due to extraordinary circumstances (Section 58.35(c)).					
1	Prepar	er Signature: Date: April 11, 2025					
	Name .	/ Title/ Organization: Ricardo Espiet Lopez / / Department of Housing - Puerto Rico					
	Respoi	Responsible Entity Agency Official Signature: A. l. l. L. Date: 4/11/2025					
	Name/	lame/ Title: Pedro A. de León Rodríguez, MSEM/Permits and Environmental Compliance Specialist					

This original, signed document and related supporting material must be retained on file by the Responsible Entity in an Environment Review Record (ERR) for the activity / project (ref: 24 CFR Part 58.38) and in accordance with recordkeeping requirements for the HUD program(s).

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Environmental Review for Activity/Project that is Categorically Excluded Subject to Section 58.5 Pursuant to 24 CFR 58.35(a)

Project Information

Project Name: PR-RGRW-01327-W-RE

HEROS Number: 900000010365406

Start Date: 11/14/2023

Responsible Entity (RE): Department of Housing - Puerto Rico, P.O. Box 21365 San

Juan PR, 00928

State / Local Identifier:

RE Preparer: Ricardo Espiet Lopez

Certifying Office

r:

Grant Recipient (if different than Responsible Ent

ity):

Point of Contact:

Point of Contact: Justin Neely **Consultant (if applicable):** HORNE LLP

40 CFR 1506.5(b)(4): The lead agency or, where appropriate, a cooperating agency shall prepare a disclosure statement for the contractor's execution specifying that the contractor has no financial or other interest in the outcome of the action. Such statement need not include privileged or confidential trade secrets or other confidential business information.

✓ By checking this box, I attest that as a preparer, I have no financial or other interest in the outcome of the undertaking assessed in this environmental review.

Project Location:, Barranquitas, PR 00794

Additional Location Information:

Coordinates: Greenhouse location: latitude 18.237132, longitude - 66.347909 Cistern 1 location: latitude 18.238488, longitude -66.347243 Cistern 2 location: latitude 18.238762, longitude -66.347711 Electric generator: latitude 18.236635, longitude -66.348323 Parcel cadastral # 220-035-230-83; 220-035-230-81 Coordinates: Fence location: latitude 18.214155, longitude -66.399803; latitude 18.213738, longitude -66.399313 Parcel cadastral # 245-017-109-16; 245-007-109-03

Direct Comments to: environmentcdbg@vivienda.pr.gov

Description of the Proposed Project [24 CFR 50.12 & 58.32; 40 CFR 1508.25]:

This project (PR-RGRW-01327-W-RE) entails the award of a grant to Miguel Marrero Torres/ DBA Finca Sector Los Marrero, an agricultural business, at Carr. 772 Km. 7.8 Interior Bo. Canabon, Sector Los Marrero, Barranquitas / Carretera 155, KM 23.7 Int, Barrio Saltos, Sector Los Rosados, Orocovis, PR. Tax ID Numbers: Barranquitas: 220-035-230-83, 220-035-230-81; Orocovis: 245-017-109-16, 245-007-109-03. Project Coordinates: Barranquitas: 18.237132 -66.347909, 18.238488 -66.347243, 18.238762 -66.347711; Orocovis: 18.214155 -66.399803, 18.213738, -66.399313. This project had an original CENST review which included the purchase of farm equipment including a sprayer, fertilizers, yam seeds, plow, plow blades and oxen yoke for project cost of \$30,139.55. See attached CENST environmental review. This review includes scope items previously considered as an EA level of review (cisterns, agricultural equipment, agricultural infrastructure, greenhouse, generator) which are now evaluated as CEST level of review in accordance with FR-6492-N-01 with a project cost of \$19,161.55. The proposed activities consist of the purchase and installation of a 20' x 20' greenhouse, two 1,000-gallon cisterns, an electric inverter generator, agricultural equipment and agricultural infrastructure. The agricultural equipment includes: Prunell PPT 2620, Blower PB 9010, thread rolls, mesh masks, plastics mesh, telescopic manual bar, aprons, one gallon of mixture, Arnett STHIL and caps. The agricultural infrastructure includes treated posts, barbed wire, hole making machine, augers, a saw and PVC tubes and they will be used for the construction of a fence. The greenhouse measures 20' x 20' and will be anchored to 10' spaced supports buried 2 feet deep, and will be built with aluminum pillars and arches and a plastic cover on the roof. The proposed area for the installation of the greenhouse will be leveled. The water needed for the greenhouse will come from the new cisterns and all pipes will be above ground. The two cisterns will be installed on plastic pallets on bare soil provided by the applicant and it will not be necessary to construct a concrete slab. The water needed to fill the cisterns will be provided by an existing communal water well and transported via above ground pipes. The electric inverter generator is to pump water into the cisterns, and it does not require a transfer switch. No new connections will be necessary. The new generator is a

SUA 8000iE - 8000 Watt (10.7 hp) and will be stored in an existing structure. The generator will be moved depending on where it would be needed. The proposed activities in the Municipality of Orocovis involve the installation of a barbed wire fence as a pig enclosure with 10-12 inches wide posts buried 6-8 inches deep. The fence will measure approximately 3,300 linear feet. No water or electricity connections will be necessary. The project Miguel Marrero Torres/ DBA Finca Sector Los Marrero, PR-RGRW-01327-W-RE has been evaluated in accordance with FR-6492-N-01. The activities identified CE: #6 - 6. 7 CFR 799.32 (d) (3) (i): Fence installation and replacement. HUD Level of Review: CENST. Potential application to HUD activities: Fence installation and replacement that support agricultural needs, without ground disturbance, CE: #7 - 7. 7 CFR 799.32(e) (2) (iii): Construction of a new farm storage facility. HUD Level of Review: CEST. Potential application to HUD activities: Construction of a new farm storage facility with ground disturbance, and CE: #10 - 10. 7 CFR 799.32(e) (2) (xxxvii): Watering tank or trough installation, if in areas not previously disturbed. HUD Level of Review: CEST. Potential application to HUD activities: Agricultural watering tank or trough installation that includes new ground disturbance have been classified as CENST and CEST under the waiver.

Maps, photographs, and other documentation of project location and description:

PR-RGRW-01327-W-RE IUGF CEST.pdf

ReEvaluation Memo .docx

PR-RGRW-01327-W-RE Site Map 2.pdf

PR-RGRW-01327-W-RE Site Map 1.pdf

PR-RGRW-01327 CENST ERR.pdf

PRDOH Regrow Puerto Rico Program - 5836 Waiver (002).pdf

Farm Service Agency Adopted Categorical Exclusions Identified in FR-6492-N-01.pdf

PR-RGRW-01327-W-RE EFOR.pdf

Level of Environmental Review Determination:

Categorically Excluded per 24 CFR 58.35(a), and subject to laws and authorities at 58.5:

58.35(a)(3)(iii)

Determination:

This categorically excluded activity/project converts to EXEMPT per Section 58.34(a)(12), because it does not require any mitigation for compliance with any listed statutes or authorities, nor requires any formal permit or license; Funds may be committed and drawn down after certification of this part for this (now) EXEMPT project; OR
This categorically excluded activity/project cannot convert to Exempt status because one or more statutes or authorities listed at Section 58.5 requires formal consultation or mitigation. Complete consultation/mitigation protocol requirements, publish NOI/RROF and obtain "Authority to Use Grant Funds" (HUD 7015.16) per Section 58.70 and 58.71 before committing or drawing down any funds; OR

This project is not categorically excluded OR, if originally categorically excluded, is now subject to a full Environmental Assessment according to Part 58 Subpart E due to extraordinary circumstances (Section 58.35(c)).

Approval Documents:

<u>01327-SIG-PAGE(1).pdf</u>

7015.15 certified by Certifying Officer on:

7015.16 certified by Authorizing Officer on:

Reevaluation of a Completed Review

The environmental findings of a completed environmental review were re-evaluated to determine if the original findings are still valid for all of the three scenarios below:

- a. Substantial changes in the nature, magnitude, or extent of the project, including adding new activities not anticipated in the original scope of the project are proposed.
- b. There are new circumstances and environmental conditions which may affect the project or have a bearing on its impact, such as concealed or unexpected conditions discovered during the implementation of the project, or
- c. The selection of an alternative not in the original finding is proposed.

It was determined that the original findings were still valid.

Statement or memo documenting determination:

The project Miguel Marrero Torres/ DBA Finca Sector Los Marrero, PR-RGRW-01327-W-RE has been evaluated in accordance with FR-6492-N-01. The activities identified CE: #6 - 6. 7 CFR 799.32 (d) (3) (i): Fence installation and replacement. HUD Level of Review: CENST. Potential application to HUD activities: Fence installation and replacement that support agricultural needs, without ground disturbance, CE: #7 - 7. 7 CFR 799.32(e) (2) (iii): Construction of a new farm storage facility. HUD Level of Review: CEST. Potential application to HUD activities: Construction of a new farm storage facility with ground disturbance, and CE: #10 - 10. 7 CFR 799.32(e) (2) (xxxvii): Watering tank or trough installation, if in areas not previously disturbed. HUD Level of Review: CEST. Potential application to HUD activities: Agricultural watering tank

PR-RGRW-01327-W-RE

or trough installation that includes new ground disturbance have been classified as CENST and CEST under the waiver.

ReEvaluation Memo (1).docx

PR-RGRW-01327 CENST ERR(1).pdf

PRDOH Regrow Puerto Rico Program - 5836 Waiver (002)(1).pdf

Farm Service Agency Adopted Categorical Exclusions Identified in FR-6492-N-

01(1).pdf

Funding Information

Grant / Project Identification	HUD Program	Program Name	Funding Amount
Number			
B-17-DM-72-0001	Community Planning and	Community Development Block Grants	\$0.00
	Development (CPD)	(Disaster Recovery Assistance)	
B-18-DE-72-0001	Community Planning and	Community Development Block Grants	\$0.00
	Development (CPD)	(Disaster Recovery Assistance)	
B-18-DP-72-0001	Community Planning and	Community Development Block Grants	\$0.00
	Development (CPD)	(Disaster Recovery Assistance)	
B-19-DP-78-0002	Community Planning and	Community Development Block Grants	\$0.00
	Development (CPD)	(Disaster Recovery Assistance)	

Estimated Total HUD Funded,

\$19,161.55

Assisted or Insured Amount:

Estimated Total Project Cost: \$19,161.55

Compliance with 24 CFR §50.4, §58.5 and §58.6 Laws and Authorities

Compliance Factors: Statutes, Executive Orders, and Regulations listed at 24 CFR §50.4, §58.5, and §58.6	Are formal compliance steps or mitigation required?	Compliance determination (See Appendix A for source determinations)
STATUTES, EXECUTIVE ORD	ONS LISTED AT 24 CFR §50.4 & § 58.6	
Airport Hazards	☐ Yes ☑ No	The project site is not within 15,000 feet
Clear Zones and Accident Potential		of a military airport or 2,500 feet of a
Zones; 24 CFR Part 51 Subpart D		civilian airport. The site of the proposed
		greenhouse and cisterns are located
		110,284 feet from the nearest major
		civil airport (Mercedita International
		Airport in Ponce) and 136,350 feet from

		the nearest military airport (Luis Munoz Marin International Airport in San Juan). The site of the proposed fence unit is located 92,650 feet from the nearest major civil airport (Mercedita International Airport in Ponce) and 156,036 feet from the nearest military airport (Luis Munoz Marin International Airport in San Juan). The project is in compliance with Airport Hazards requirements.
Coastal Barrier Resources Act Coastal Barrier Resources Act, as amended by the Coastal Barrier Improvement Act of 1990 [16 USC 3501]	□ Yes ☑ No	This project is not located in a CBRS Unit. The proposed greenhouse and cisterns are located 84,585 feet southeast of the nearest Coastal Barrier Resource System, PR-83. The proposed fence is located 83,133 feet northeast of the nearest Coastal Barrier Resource System, PR-51. Therefore, this project has no potential to impact a CBRS Unit and is in compliance with the Coastal Barrier Resources Act.
Flood Insurance Flood Disaster Protection Act of 1973 and National Flood Insurance Reform Act of 1994 [42 USC 4001- 4128 and 42 USC 5154a]	□ Yes ☑ No	The proposed greenhouse and cisterns are located in Zone X, Panel 72000C1155H, 4/19/2005 on the FEMA FIRM. The proposed fence is located in Zone X, Panel 72000C1135H, 4/19/2005 on the FEMA FIRM. The structure or insurable property is not located in a FEMA-designated Special Flood Hazard Area. While flood insurance may not be mandatory in this instance, HUD recommends that all insurable structures maintain flood insurance under the National Flood Insurance Program (NFIP). The project is in compliance with flood insurance requirements.
STATUTES, EXECUTIVE ORD	DERS, AND REGULATION	ONS LISTED AT 24 CFR §50.4 & § 58.5
Air Quality Clean Air Act, as amended, particularly section 176(c) & (d); 40 CFR Parts 6, 51, 93	□ Yes ☑ No	Based on the project description, this project includes no activities that would require further evaluation under the Clean Air Act. The project is in

Coastal Zone Management Act Coastal Zone Management Act, sections 307(c) & (d)	☐ Yes ☑ No	This project is not located in or does not affect a Coastal Zone as defined in the state Coastal Management Plan. The proposed greenhouse and cisterns are located 79,281 feet and the fence is located 76,763 feet from the nearest Coastal Zone Management Area. The project is in compliance with the Coastal Zone Management Act.
Contamination and Toxic Substances 24 CFR 50.3(i) & 58.5(i)(2)]	□ Yes ☑ No	Site contamination was evaluated as follows: None of the above. On-site or nearby toxic, hazardous, or radioactive substances that could affect the health and safety of project occupants or conflict with the intended use of the property were not found. The project is in compliance with contamination and toxic substances requirements. At the time of this review, this section has not been updated in HEROS to include questions regarding radon. A review of science-based radon data offered a lack of data for the project site and radon testing was determined to be infeasible or impracticable. See attached radon documents.
Endangered Species Act Endangered Species Act of 1973, particularly section 7; 50 CFR Part 402	☑ Yes □ No	This project May Affect, but is Not Likely to Adversely Affect, listed species, and informal consultation was conducted. With mitigation, identified in the mitigation section of this review, the project will be in compliance with the Endangered Species Act.
Explosive and Flammable Hazards Above-Ground Tanks)[24 CFR Part 51 Subpart C	□ Yes ☑ No	Based on the project description the project includes no activities that would require further evaluation under this section. The project is in compliance with explosive and flammable hazard requirements.
Farmlands Protection Farmland Protection Policy Act of 1981, particularly sections 1504(b) and 1541; 7 CFR Part 658	□ Yes ☑ No	This project does not include any activities that could potentially convert agricultural land to a non-agricultural use. The project is in compliance with the Farmland Protection Policy Act.

Floodplain Management	☐ Yes ☑ No	The proposed greenhouse and cisterns
Executive Order 11988, particularly section 2(a); 24 CFR Part 55		are located in Zone X, Panel 72000C1155H, 4/19/2005 on the FEMA FIRM. The proposed fence is located in Zone X, Panel 72000C1135H, 4/19/2005 on the FEMA FIRM This project does not occur in a floodplain. The project is in compliance with Executive Order 11988. PFIRMs in Puerto Rico was only developed for certain sections of the municipalities of Carolina, Canovanas, Loiza, San Juan and Trujillo Alto. The proposed project is located in the municipalities of Orocovis and Barranquitas; therefore, PFIRM information was not available for the area and therefore not considered in the review. At the time of this review, this section has not been updated in HEROS to include questions regarding FFRMS. This project does not occur in the FFRMS floodplain. The project is in compliance with Executive Orders 11988 and 13690.
Historic Preservation National Historic Preservation Act of 1966, particularly sections 106 and 110; 36 CFR Part 800	☐ Yes ☑ No	Based on Section 106 consultation there are No Historic Properties Affected because there are no historic properties present. The project is in compliance with Section 106.
Noise Abatement and Control Noise Control Act of 1972, as amended by the Quiet Communities Act of 1978; 24 CFR Part 51 Subpart B	☐ Yes ☑ No	Based on the project description, this project includes no activities that would require further evaluation under HUD's noise regulation. The project is in compliance with HUD's Noise regulation.
Sole Source Aquifers Safe Drinking Water Act of 1974, as amended, particularly section 1424(e); 40 CFR Part 149	□ Yes ☑ No	The project is not located on a sole source aquifer area. According to EPA, there are no sole source aquifers in Puerto Rico. The project is in compliance with Sole Source Aquifer requirements.
Wetlands Protection Executive Order 11990, particularly sections 2 and 5	☐ Yes ☑ No	Based on the project description this project includes no activities that would require further evaluation under this section. The project is in compliance with Executive Order 11990. This

Wild and Scenic Rivers Act Wild and Scenic Rivers Act of 1968, particularly section 7(b) and (c)	Rivers Act of 1968, NWSRS river. The proposed greenhou	
		Rivers Act.
HUD HO	DUSING ENVIRONME	NTAL STANDARDS
	ENVIRONMENTAL.	JUSTICE
Environmental Justice Executive Order 12898	☐ Yes ☑ No	No adverse environmental impacts were identified in the project's total environmental review. The project is in compliance with Executive Order 12898. On January 21, 2025, President Donald Trump issued the Executive Order 14173 titled "Ending Illegal Discrimination and Restoring Merit-Based Opportunity", which revoked Executive Order 12898 and eliminated federal mandates requiring agencies to assess environmental justice impacts. Consequently, there is no longer a federal requirement to address environmental justice concerns in the environmental compliance review process.

Mitigation Measures and Conditions [40 CFR 1505.2(c)]:

Summarized below are all mitigation measures adopted by the Responsible Entity to reduce, avoid or eliminate adverse environmental impacts and to avoid non-compliance or non-conformance with the above-listed authorities and factors. These measures/conditions must be incorporated into project contracts, development agreements and other relevant documents. The staff responsible for implementing and monitoring mitigation measures should be clearly identified in the mitigation plan.

Law,	Mitigation Measure or Condition	Comments on	Mitigation	Complete
Authority,		Completed	Plan	
or Factor		Measures		
Endangered	The United States Fish and	N/A		
Species Act	Wildlife Service (USFWS)			

Caribbean Ecological Services Field Office reviewed the information provided and their files, and on January 10, 2025 concurred with the determination that the proposed project actions will have May Affect, but is Not Likely to Adversely Affect (NLAA) the Puerto Rican Boa, Puerto Rican Parrot, and Puerto Rican Broad-Winged Hawk. The USFWS NLAA concurrence is conditioned to the following: (1) if a Boa is encountered, the Conservation Measures will be in accordance with the USFWS Puerto Rican Boa Conservation Measures 2024, (2) if a Puerto Rican Parrot is encountered on the site, the USFWS Caribbean Office will be notified immediately and (3) if a Puerto Rican Broad-winged Hawk is encountered on the site, the USFWS Caribbean Office will be notified immediately. Obligations under section 7 of the Act must be reconsidered if: (1) new information reveals impacts of this identified action that may affect listed species or critical habitat in a manner that was not previously considered; (2) this action is subsequently modified in a manner not previously considered in this assessment; or, (3) a new species is listed, or critical habitat determined that may be affected by the identified action. In conclusion, the USFWS concurred with the CDBG-DR/MIT Permits and Environmental **Compliance Division NLAA** determination. However, the applicant must be informed about the conditions of the

determination of concurrence		
and implement them as		
described.		

Project Mitigation Plan

Should new ground disturbance occur the Karst zone must be evaluated and when necessary DNER must be consulted prior to construction activities. In accordance with Puerto Rican Permit requirements any generator above 10HP requires an Emergency Generators General Permit of the Puerto Rico Natural and Environmental Resources Department prior to installation. The United States Fish and Wildlife Service (USFWS) Caribbean Ecological Services Field Office reviewed the information provided and their files, and on January 10, 2025 concurred with the determination that the proposed project actions will have May Affect, but is Not Likely to Adversely Affect (NLAA) the Puerto Rican Boa, Puerto Rican Parrot, and Puerto Rican Broad-Winged Hawk. The USFWS NLAA concurrence is conditioned to the following: (1) if a Boa is encountered, the Conservation Measures will be in accordance with the USFWS Puerto Rican Boa Conservation Measures 2024, (2) if a Puerto Rican Parrot is encountered on the site, the USFWS Caribbean Office will be notified immediately and (3) if a Puerto Rican Broad-winged Hawk is encountered on the site, the USFWS Caribbean Office will be notified immediately. Obligations under section 7 of the Act must be reconsidered if: (1) new information reveals impacts of this identified action that may affect listed species or critical habitat in a manner that was not previously considered; (2) this action is subsequently modified in a manner not previously considered in this assessment; or, (3) a new species is listed, or critical habitat determined that may be affected by the identified action. In conclusion, the USFWS concurred with the CDBG-DR/MIT Permits and Environmental Compliance Division NLAA determination. However, the applicant must be informed about the conditions of the determination of concurrence and implement them as described.

Supporting documentation on completed measures

APPENDIX A: Related Federal Laws and Authorities

Airport Hazards

General policy	Legislation	Regulation
It is HUD's policy to apply standards to		24 CFR Part 51 Subpart D
prevent incompatible development		
around civil airports and military airfields.		

1. To ensure compatible land use development, you must determine your site's proximity to civil and military airports. Is your project within 15,000 feet of a military airport or 2,500 feet of a civilian airport?

√ No

Based on the response, the review is in compliance with this section. Document and upload the map showing that the site is not within the applicable distances to a military or civilian airport below

Yes

Screen Summary

Compliance Determination

The project site is not within 15,000 feet of a military airport or 2,500 feet of a civilian airport. The site of the proposed greenhouse and cisterns are located 110,284 feet from the nearest major civil airport (Mercedita International Airport in Ponce) and 136,350 feet from the nearest military airport (Luis Munoz Marin International Airport in San Juan). The site of the proposed fence unit is located 92,650 feet from the nearest major civil airport (Mercedita International Airport in Ponce) and 156,036 feet from the nearest military airport (Luis Munoz Marin International Airport in San Juan). The project is in compliance with Airport Hazards requirements.

Supporting documentation

PR-RGRW-01327-W-RE Airports 2.pdf PR-RGRW-01327-W-RE Airports 1.pdf

Are formal compliance steps or mitigation required?

Yes

√ No

Coastal Barrier Resources

General requirements	Legislation	Regulation
HUD financial assistance may not be	Coastal Barrier Resources Act	
used for most activities in units of the	(CBRA) of 1982, as amended by	
Coastal Barrier Resources System	the Coastal Barrier Improvement	
(CBRS). See 16 USC 3504 for limitations	Act of 1990 (16 USC 3501)	
on federal expenditures affecting the		
CBRS.		

1. Is the project located in a CBRS Unit?

✓ No

Document and upload map and documentation below.

Yes

Screen Summary

Compliance Determination

This project is not located in a CBRS Unit. The proposed greenhouse and cisterns are located 84,585 feet southeast of the nearest Coastal Barrier Resource System, PR-83. The proposed fence is located 83,133 feet northeast of the nearest Coastal Barrier Resource System, PR-51. Therefore, this project has no potential to impact a CBRS Unit and is in compliance with the Coastal Barrier Resources Act.

Supporting documentation

PR-RGRW-01327-W-RE CBRS 2.pdf PR-RGRW-01327-W-RE CBRS 1.pdf

Are formal compliance steps or mitigation required?

Yes

Flood Insurance

General requirements	Legislation	Regulation
Certain types of federal financial assistance may not be	Flood Disaster	24 CFR 50.4(b)(1)
used in floodplains unless the community participates	Protection Act of 1973	and 24 CFR 58.6(a)
in National Flood Insurance Program and flood	as amended (42 USC	and (b); 24 CFR
insurance is both obtained and maintained.	4001-4128)	55.1(b).

1. Does this project involve <u>financial assistance for construction, rehabilitation, or acquisition of a mobile home, building, or insurable personal property?</u>

No. This project does not require flood insurance or is excepted from flood insurance.

✓ Yes

2. Upload a FEMA/FIRM map showing the site here:

PR-RGRW-01327-W-RE FIRM 2(1).pdf PR-RGRW-01327-W-RE FIRM 1(1).pdf

The Federal Emergency Management Agency (FEMA) designates floodplains. The <u>FEMA Map Service Center</u> provides this information in the form of FEMA Flood Insurance Rate Maps (FIRMs). For projects in areas not mapped by FEMA, use the best available information to determine floodplain information. Include documentation, including a discussion of why this is the best available information for the site. Provide FEMA/FIRM floodplain zone designation, panel number, and date within your documentation.

Is the structure, part of the structure, or insurable property located in a FEMA-designated Special Flood Hazard Area?

✓ No

Based on the response, the review is in compliance with this section.

Yes

4. While flood insurance is not mandatory for this project, HUD strongly recommends that all insurable structures maintain flood insurance under the National Flood Insurance Program (NFIP). Will flood insurance be required as a mitigation measure or condition?

Yes

✓ No

Screen Summary

Compliance Determination

The proposed greenhouse and cisterns are located in Zone X, Panel 72000C1155H, 4/19/2005 on the FEMA FIRM. The proposed fence is located in Zone X, Panel 72000C1135H, 4/19/2005 on the FEMA FIRM. The structure or insurable property is not located in a FEMA-designated Special Flood Hazard Area. While flood insurance may not be mandatory in this instance, HUD recommends that all insurable structures maintain flood insurance under the National Flood Insurance Program (NFIP). The project is in compliance with flood insurance requirements.

Supporting documentation

Are formal compliance steps or mitigation required?

Yes

√ No

Air Quality

General requirements	Legislation	Regulation
The Clean Air Act is administered	Clean Air Act (42 USC 7401 et	40 CFR Parts 6, 51
by the U.S. Environmental	seq.) as amended particularly	and 93
Protection Agency (EPA), which	Section 176(c) and (d) (42 USC	
sets national standards on	7506(c) and (d))	
ambient pollutants. In addition,		
the Clean Air Act is administered		
by States, which must develop		
State Implementation Plans (SIPs)		
to regulate their state air quality.		
Projects funded by HUD must		
demonstrate that they conform		
to the appropriate SIP.		

1. Does your project include new construction or conversion of land use facilitating the development of public, commercial, or industrial facilities OR five or more dwelling units?

Yes

✓ No

Based on the response, the review is in compliance with this section.

Screen Summary

Compliance Determination

Based on the project description, this project includes no activities that would require further evaluation under the Clean Air Act. The project is in compliance with the Clean Air Act.

Supporting documentation

Are formal compliance steps or mitigation required?

Yes

Coastal Zone Management Act

General requirements	Legislation	Regulation
Federal assistance to applicant	Coastal Zone Management	15 CFR Part 930
agencies for activities affecting	Act (16 USC 1451-1464),	
any coastal use or resource is	particularly section 307(c)	
granted only when such	and (d) (16 USC 1456(c) and	
activities are consistent with	(d))	
federally approved State		
Coastal Zone Management Act		
Plans.		

1. Is the project located in, or does it affect, a Coastal Zone as defined in your state Coastal Management Plan?

Yes

√ No

Based on the response, the review is in compliance with this section. Document and upload all documents used to make your determination below.

Screen Summary

Compliance Determination

This project is not located in or does not affect a Coastal Zone as defined in the state Coastal Management Plan. The proposed greenhouse and cisterns are located 79,281 feet and the fence is located 76,763 feet from the nearest Coastal Zone Management Area. The project is in compliance with the Coastal Zone Management Act.

Supporting documentation

PR-RGRW-01327-W-RE CZM 2.pdf PR-RGRW-01327-W-RE CZM 1.pdf

Are formal compliance steps or mitigation required?

Yes

√ No

Contamination and Toxic Substances

General Requirements	Legislation	Regulations
It is HUD policy that all properties that are being		24 CFR
proposed for use in HUD programs be free of		58.5(i)(2)
hazardous materials, contamination, toxic		24 CFR 50.3(i)
chemicals and gases, and radioactive substances,		
where a hazard could affect the health and safety of		
the occupants or conflict with the intended		
utilization of the property.		
Reference		
https://www.onecpd.info/environmental-review/site-contamination		

1. How was site contamination evaluated?* Select all that apply.

ASTM Phase I ESA

ASTM Phase II ESA

Remediation or clean-up plan

ASTM Vapor Encroachment Screening.

✓ None of the above

2. Were any on-site or nearby toxic, hazardous, or radioactive substances found that could affect the health and safety of project occupants or conflict with the intended use of the property? (Were any recognized environmental conditions or RECs identified in a Phase I ESA and confirmed in a Phase II ESA?)

✓	Nο	
•	1111	

Explain:

^{*} HUD regulations at 24 CFR § 58.5(i)(2)(ii) require that the environmental review for multifamily housing with five or more dwelling units or non-residential property include the evaluation of previous uses of the site or other evidence of contamination on or near the site. For acquisition and new construction of multifamily and nonresidential properties HUD strongly advises the review include an ASTM Phase I Environmental Site Assessment (ESA) to meet real estate transaction standards of due diligence and to help ensure compliance with HUD's toxic policy at 24 CFR §58.5(i) and 24 CFR §50.3(i). Also note that some HUD programs require an ASTM Phase I ESA.

There are no toxic sites within 3,000 feet of the applicant location. The environmental field observation did not note any items of concern. See the attached environmental field observation report. A google earth review of the area shows no visible hazards. The past land use for the last 10-15 year is agricultural.

Yes

Screen Summary

Compliance Determination

Site contamination was evaluated as follows: None of the above. On-site or nearby toxic, hazardous, or radioactive substances that could affect the health and safety of project occupants or conflict with the intended use of the property were not found. The project is in compliance with contamination and toxic substances requirements. At the time of this review, this section has not been updated in HEROS to include questions regarding radon. A review of science-based radon data offered a lack of data for the project site and radon testing was determined to be infeasible or impracticable. See attached radon documents.

Supporting documentation

Radon Attachments.pdf
PR-RGRW-01327-W-RE Toxics 2.pdf
PR-RGRW-01327-W-RE Toxics 1.pdf
PR-RGRW-01327-W-RE Radon Memo.docx
PR-RGRW-01327-W-RE EFOR(1).pdf

Are formal compliance steps or mitigation required?

Yes

Endangered Species

General requirements	ESA Legislation	Regulations
Section 7 of the Endangered Species Act (ESA)	The Endangered	50 CFR Part
mandates that federal agencies ensure that	Species Act of 1973	402
actions that they authorize, fund, or carry out	(16 U.S.C. 1531 et	
shall not jeopardize the continued existence of	seq.); particularly	
federally listed plants and animals or result in	section 7 (16 USC	
the adverse modification or destruction of	1536).	
designated critical habitat. Where their actions		
may affect resources protected by the ESA,		
agencies must consult with the Fish and Wildlife		
Service and/or the National Marine Fisheries		
Service ("FWS" and "NMFS" or "the Services").		

1. Does the project involve any activities that have the potential to affect specifies or habitats?

No, the project will have No Effect due to the nature of the activities involved in the project.

No, the project will have No Effect based on a letter of understanding, memorandum of agreement, programmatic agreement, or checklist provided by local HUD office

- ✓ Yes, the activities involved in the project have the potential to affect species and/or habitats.
- 2. Are federally listed species or designated critical habitats present in the action area?

No, the project will have No Effect due to the absence of federally listed species and designated critical habitat

- ✓ Yes, there are federally listed species or designated critical habitats present in the action area.
- 3. What effects, if any, will your project have on federally listed species or designated critical habitat?

No Effect: Based on the specifics of both the project and any federally listed species in the action area, you have determined that the project will have absolutely no effect on listed species or critical habitat. in the action area.

May Affect, Not Likely to Adversely Affect: Any effects that the project may have on federally listed species or critical habitats would be beneficial, discountable, or insignificant.

Likely to Adversely Affect: The project may have negative effects on one or more listed species or critical habitat.

4. Informal Consultation is required

Section 7 of ESA (16 USC. 1536) mandates consultation to resolve potential impacts to endangered and threatened species and critical habitats. If a HUD-assisted project may affect any federally listed endangered or threatened species or critical habitat, then compliance is required with Section 7. See 50 CFR Part 402 Subpart B Consultation Procedures.

Did the Service(s) concur with the finding that the project is Not Likely to Adversely Affect?

✓ Yes, the Service(s) concurred with the finding.

Based on the response, the review is in compliance with this section. Document and upload the following below:

- (1) A biological evaluation or equivalent document
- (2) Concurrence(s) from FWS and/or NMFS
- (3) Any other documentation of informal consultation

Exception: If finding was made based on procedures provided by a letter of understanding, memorandum of agreement, programmatic agreement, or checklist provided by local HUD office, provide whatever documentation is mandated by that agreement.

No, the Service(s) did not concur with the finding.

- 6. For the project to be brought into compliance with this section, all adverse impacts must be mitigated. Explain in detail the exact measures that must be implemented to mitigate for the impact or effect, including the timeline for implementation. This information will be automatically included in the Mitigation summary for the environmental review. If negative effects cannot be mitigated, cancel the project using the button at the bottom of this screen.
 - ✓ Mitigation as follows will be implemented:

The United States Fish and Wildlife Service (USFWS) Caribbean Ecological Services Field Office reviewed the information provided and their files, and on January 10, 2025 concurred with the determination that the proposed project actions will have May Affect, but is Not Likely to Adversely Affect (NLAA) the Puerto Rican Boa, Puerto Rican Parrot, and Puerto Rican Broad-Winged Hawk. The USFWS NLAA concurrence is conditioned to the following: (1) if a Boa is encountered, the Conservation Measures will be in accordance with the USFWS Puerto Rican Boa Conservation Measures 2024, (2) if a Puerto Rican Parrot is encountered on the site, the USFWS Caribbean Office will be notified immediately and (3) if a Puerto Rican Broad-winged Hawk is encountered on the site, the USFWS Caribbean Office will be notified immediately. Obligations under section 7 of the Act must be reconsidered if: (1) new information reveals impacts of this identified action that may affect listed species or critical habitat in a manner that was not previously considered; (2) this action is subsequently modified in a manner not previously considered in this assessment; or, (3) a new species is listed, or critical habitat determined that may be affected by the identified action. In conclusion, the USFWS concurred with the CDBG-DR/MIT Permits and Environmental Compliance Division NLAA determination. However, the applicant must be informed about the conditions of the determination of concurrence and implement them as described.

No mitigation is necessary.

Screen Summary

Compliance Determination

This project May Affect, but is Not Likely to Adversely Affect, listed species, and informal consultation was conducted. With mitigation, identified in the mitigation

section of this review, the project will be in compliance with the Endangered Species Act.

Supporting documentation

PR-RGRW-01327-W-RE USFWS Consultation Package.pdf
PR-RGRW-01327-W-RE USFWS Conservation Measures.pdf
PR-RGRW-01327-W-RE USFWS Concurrence Letter.pdf

Are formal compliance steps or mitigation required?

✓ Yes

No

Explosive and Flammable Hazards

General requirements	Legislation	Regulation
HUD-assisted projects must meet	N/A	24 CFR Part 51
Acceptable Separation Distance (ASD)		Subpart C
requirements to protect them from		
explosive and flammable hazards.		

1.	Is the proposed HUD-assisted project itself the development of a hazardous facility (a
facility	that mainly stores, handles or processes flammable or combustible chemicals such as
bulk fu	el storage facilities and refineries)?

✓	No
	Vac

2. Does this project include any of the following activities: development, construction, rehabilitation that will increase residential densities, or conversion?

✓	No

Based on the response, the review is in compliance with this section.

Yes

Screen Summary

Compliance Determination

Based on the project description the project includes no activities that would require further evaluation under this section. The project is in compliance with explosive and flammable hazard requirements.

Supporting documentation

Are formal compliance steps or mitigation required?

Yes

Farmlands Protection

General requirements	Legislation	Regulation
The Farmland Protection	Farmland Protection Policy	7 CFR Part 658
Policy Act (FPPA) discourages	Act of 1981 (7 U.S.C. 4201	
federal activities that would	et seq.)	
convert farmland to		
nonagricultural purposes.		

1. Does your project include any activities, including new construction, acquisition of undeveloped land or conversion, that could convert agricultural land to a non-agricultural use?

Yes



If your project includes new construction, acquisition of undeveloped land or conversion, explain how you determined that agricultural land would not be converted:

The proposed area for the greenhouse and cisterns iscontinued agricultural use of property which is compatible with a zoning code of A-G (General Agriculture) and R-G (General rural) with existing land use of SREP-A (Specially Protected Agricultural Rustic Land). The proposed action for the fence is continued agricultural use of property which is compatible with a zoning code of R-G (General rural) and existing land use of SRC (Common Rustic Land).

Based on the response, the review is in compliance with this section. Document and upload all documents used to make your determination below.

Screen Summary

Compliance Determination

This project does not include any activities that could potentially convert agricultural land to a non-agricultural use. The project is in compliance with the Farmland Protection Policy Act.

Supporting documentation

PR-RGRW-01327-W-RE Farmlands 2.pdf PR-RGRW-01327-W-RE Farmlands 1.pdf

Are formal compliance steps or mitigation required?

Yes

Floodplain Management

General Requirements	Legislation	Regulation
Executive Order 11988,	Executive Order 11988	24 CFR 55
Floodplain Management,		
requires federal activities to		
avoid impacts to floodplains		
and to avoid direct and		
indirect support of floodplain		
development to the extent		
practicable.		

1. Do any of the following exemptions apply? Select the applicable citation? [only one selection possible]

55.12(c)(3)

55.12(c)(4)

55.12(c)(5)

55.12(c)(6)

55.12(c)(7)

55.12(c)(8)

55.12(c)(9)

55.12(c)(10)

55.12(c)(11)

✓ None of the above

2. Upload a FEMA/FIRM map showing the site here:

PR-RGRW-01327-W-RE FIRM 2(1).pdf PR-RGRW-01327-W-RE FIRM 1(1).pdf

The Federal Emergency Management Agency (FEMA) designates floodplains. The FEMA Map Service Center provides this information in the form of FEMA Flood Insurance Rate Maps (FIRMs). For projects in areas not mapped by FEMA, use **the best available information** to determine floodplain information. Include documentation, including a discussion of why this is the best available information for the site.

Does your project occur in a floodplain?

√ No

Based on the response, the review is in compliance with this section.

Yes

Screen Summary

Compliance Determination

The proposed greenhouse and cisterns are located in Zone X, Panel 72000C1155H, 4/19/2005 on the FEMA FIRM. The proposed fence is located in Zone X, Panel 72000C1135H, 4/19/2005 on the FEMA FIRM This project does not occur in a floodplain. The project is in compliance with Executive Order 11988. PFIRMs in Puerto Rico was only developed for certain sections of the municipalities of Carolina, Canovanas, Loiza, San Juan and Trujillo Alto. The proposed project is located in the municipalities of Orocovis and Barranquitas; therefore, PFIRM information was not available for the area and therefore not considered in the review. At the time of this review, this section has not been updated in HEROS to include questions regarding FFRMS. This project does not occur in the FFRMS floodplain. The project is in compliance with Executive Orders 11988 and 13690.

Supporting documentation

PR-RGRW-01327-W-RE ABFE 2.pdf PR-RGRW-01327-W-RE ABFE 1.pdf

Are formal compliance steps or mitigation required?

Yes

Historic Preservation

General requirements	Legislation	Regulation
Regulations under	Section 106 of the	36 CFR 800 "Protection of Historic
Section 106 of the	National Historic	Properties"
National Historic	Preservation Act	https://www.govinfo.gov/content/pkg/CF
Preservation Act	(16 U.S.C. 470f)	R-2012-title36-vol3/pdf/CFR-2012-title36-
(NHPA) require a		vol3-part800.pdf
consultative process		
to identify historic		
properties, assess		
project impacts on		
them, and avoid,		
minimize, or mitigate		
adverse effects		

Threshold

Is Section 106 review required for your project?

No, because the project consists solely of activities listed as exempt in a Programmatic Agreement (PA). (See the PA Database to find applicable PAs.) No, because the project consists solely of activities included in a No Potential to Cause Effects memo or other determination [36 CFR 800.3(a)(1)].

✓ Yes, because the project includes activities with potential to cause effects (direct or indirect).

Step 1 – Initiate Consultation Select all consulting parties below (check all that apply):

✓ State Historic Preservation Offer (SHPO) Completed

Indian Tribes, including Tribal Historic Preservation Officers (THPOs) or Native Hawaiian Organizations (NHOs)

Other Consulting Parties

Describe the process of selecting consulting parties and initiating consultation here:

Only SHPO was consulted as No Historic Properties Affected was determined and no Tribal Lands were identified.

Document and upload all correspondence, notices and notes (including comments and objections received below).

Was the Section 106 Lender Delegation Memo used for Section 106 consultation?

Yes

No

Step 2 – Identify and Evaluate Historic Properties

1. Define the Area of Potential Effect (APE), either by entering the address(es) or uploading a map depicting the APE below:

In the chart below, list historic properties identified and evaluated in the APE. Every historic property that may be affected by the project should be included in the chart.

Upload the documentation (survey forms, Register nominations, concurrence(s) and/or objection(s), notes, and photos) that justify your National Register Status determination below.

Address / Location	National Register	SHPO Concurrence	Sensitive
/ District	Status		Information

Additional Notes:

No Historic Properties present within the APE

2. Was a survey of historic buildings and/or archeological sites done as part of the project?

Yes

✓ No

Step 3 –Assess Effects of the Project on Historic Properties

Only properties that are listed on or eligible for the National Register of Historic Places receive further consideration under Section 106. Assess the effect(s) of the project by applying the Criteria of Adverse Effect. (36 CFR 800.5)] Consider direct and indirect effects as applicable as

per guidance on direct and indirect effects.

Choose one of the findings below - No Historic Properties Affected, No Adverse Effect, or Adverse Effect; and seek concurrence from consulting parties.

✓ No Historic Properties Affected

Based on the response, the review is in compliance with this section. Document and upload concurrence(s) or objection(s) below.

Document reason for finding:

✓ No historic properties present.

Historic properties present, but project will have no effect upon them.

No Adverse Effect

Adverse Effect

Screen Summary

Compliance Determination

Based on Section 106 consultation there are No Historic Properties Affected because there are no historic properties present. The project is in compliance with Section 106.

Supporting documentation

PR-RGRW-01327-W-RE SHPO Consultation Package.pdf

Are formal compliance steps or mitigation required?

Yes

Noise Abatement and Control

General requirements	Legislation	Regulation
HUD's noise regulations protect	Noise Control Act of 1972	Title 24 CFR 51
residential properties from		Subpart B
excessive noise exposure. HUD	General Services Administration	
encourages mitigation as	Federal Management Circular	
appropriate.	75-2: "Compatible Land Uses at	
	Federal Airfields"	

1. What activities does your project involve? Check all that apply:

New construction for residential use

Rehabilitation of an existing residential property

A research demonstration project which does not result in new construction or reconstruction

An interstate land sales registration

Any timely emergency assistance under disaster assistance provision or appropriations which are provided to save lives, protect property, protect public health and safety, remove debris and wreckage, or assistance that has the effect of restoring facilities substantially as they existed prior to the disaster

✓ None of the above

Screen Summary

Compliance Determination

Based on the project description, this project includes no activities that would require further evaluation under HUD's noise regulation. The project is in compliance with HUD's Noise regulation.

Supporting documentation

Are formal compliance steps or mitigation required?

Yes

Sole Source Aquifers

General requirements	Legislation	Regulation
The Safe Drinking Water Act of 1974	Safe Drinking Water	40 CFR Part 149
protects drinking water systems	Act of 1974 (42 U.S.C.	
which are the sole or principal	201, 300f et seq., and	
drinking water source for an area	21 U.S.C. 349)	
and which, if contaminated, would		
create a significant hazard to public		
health.		

1.	Does the project consist solely of acquisition, leasing, or rehabilitation of an existing
building	g(s)?

Yes

✓ No

2. Is the project located on a sole source aquifer (SSA)?

A sole source aquifer is defined as an aquifer that supplies at least 50 percent of the drinking water consumed in the area overlying the aquifer. This includes streamflow source areas, which are upstream areas of losing streams that flow into the recharge area.

< No

√

Based on the response, the review is in compliance with this section. Document and upload documentation used to make your determination, such as a map of your project (or jurisdiction, if appropriate) in relation to the nearest SSA and its source area, below.

Yes

3. Does your region have a memorandum of understanding (MOU) or other working agreement with Environmental Protection Agency (EPA) for HUD projects impacting a sole source aquifer?

Yes

No

Screen Summary

Compliance Determination

The project is not located on a sole source aquifer area. According to EPA, there are no sole source aquifers in Puerto Rico. The project is in compliance with Sole Source Aquifer requirements.

Supporting documentation

PR-RGRW-01327-W-RE Sole Source Aquifers 2.pdf PR-RGRW-01327-W-RE Sole Source Aquifers 1.pdf

Are formal compliance steps or mitigation required?

Yes

Wetlands Protection

General requirements	Legislation	Regulation
Executive Order 11990 discourages direct or	Executive Order	24 CFR 55.20 can be
indirect support of new construction impacting	11990	used for general
wetlands wherever there is a practicable		guidance regarding
alternative. The Fish and Wildlife Service's		the 8 Step Process.
National Wetlands Inventory can be used as a		
primary screening tool, but observed or known		
wetlands not indicated on NWI maps must also		
be processed Off-site impacts that result in		
draining, impounding, or destroying wetlands		
must also be processed.		

1. Does this project involve new construction as defined in Executive Order 11990, expansion of a building's footprint, or ground disturbance? The term "new construction" shall include draining, dredging, channelizing, filling, diking, impounding, and related activities and any structures or facilities begun or authorized after the effective date of the Order

✓ No

Based on the response, the review is in compliance with this section.

Yes

Screen Summary

Compliance Determination

Based on the project description this project includes no activities that would require further evaluation under this section. The project is in compliance with Executive Order 11990. This project does not involve new construction, so a visual wetlands survey was not conducted.

Supporting documentation

PR-RGRW-01327-W-RE Wetlands 2.pdf PR-RGRW-01327-W-RE Wetlands 1.pdf

Are formal compliance steps or mitigation required?

Yes

Wild and Scenic Rivers Act

General requirements	Legislation	Regulation
The Wild and Scenic Rivers Act	The Wild and Scenic Rivers	36 CFR Part 297
provides federal protection for	Act (16 U.S.C. 1271-1287),	
certain free-flowing, wild, scenic	particularly section 7(b) and	
and recreational rivers	(c) (16 U.S.C. 1278(b) and (c))	
designated as components or		
potential components of the		
National Wild and Scenic Rivers		
System (NWSRS) from the effects		
of construction or development.		

1. Is your project within proximity of a NWSRS river?

✓ No

Yes, the project is in proximity of a Designated Wild and Scenic River or Study Wild and Scenic River.

Yes, the project is in proximity of a Nationwide Rivers Inventory (NRI) River.

Screen Summary

Compliance Determination

This project is not within proximity of a NWSRS river. The proposed greenhouse and cisterns are located 194,795 feet and the proposed fence is located 213,341 feet from the nearest Wild and Scenic River. The project is in compliance with the Wild and Scenic Rivers Act.

Supporting documentation

PR-RGRW-01327-W-RE Wild and Scenic 2.pdf PR-RGRW-01327-W-RE Wild and Scenic 1.pdf

Are formal compliance steps or mitigation required?

Yes

Environmental Justice

General requirements	Legislation	Regulation
Determine if the project	Executive Order 12898	
creates adverse environmental		
impacts upon a low-income or		
minority community. If it		
does, engage the community		
in meaningful participation		
about mitigating the impacts		
or move the project.		

HUD strongly encourages starting the Environmental Justice analysis only after all other laws and authorities, including Environmental Assessment factors if necessary, have been completed.

1. Were any adverse environmental impacts identified in any other compliance review portion of this project's total environmental review?

Yes

✓ No

Based on the response, the review is in compliance with this section.

Screen Summary

Compliance Determination

No adverse environmental impacts were identified in the project's total environmental review. The project is in compliance with Executive Order 12898. On January 21, 2025, President Donald Trump issued the Executive Order 14173 titled "Ending Illegal Discrimination and Restoring Merit-Based Opportunity", which revoked Executive Order 12898 and eliminated federal mandates requiring agencies to assess environmental justice impacts. Consequently, there is no longer a federal requirement to address environmental justice concerns in the environmental compliance review process.

Supporting documentation

Are formal compliance steps or mitigation required?

Yes



United States Department of the Interior

FISH AND WILDLIFE SERVICE

Caribbean Ecological Services Field Office
Bayamón | Mayagüez | Maricao | Río Grande | St Croix
P.O. Box 491
Boquerón, Puerto Rico 00622



In Reply Refer to: FWS/R4/CESFO/72153-Gen

Submitted Via Electronic Mail: jcperez@vivienda.pr.gov

Juan Carlos Pérez-Bofill, PE, MEng.
Director – Disaster Recovery CDBG-DR Program
Puerto Rico Department of Housing
P.O. Box 21365
San Juan, P.R 00928-1365

Re: CDBG-DR PR-RGRW-04170 José Feliciano García, Yauco, Puerto Rico

Dear Mr. Pérez-Bofill

Thank you for your letter dated August 21, 2024, requesting informal consultation on the above referenced project. As per your request, our comments are provided under the Endangered Species Act (Act) (87 Stat. 884, as amended; 16 United States Code 1531 et seq.), and the Fish and Wildlife Coordination Act (48 Stat. 401, as amended; 16 U.S.C. 661 et seq.).

The Puerto Rico Department of Housing (PRDOH) is proposing the installation of a new premanufactured storage container (20 feet (ft) long x 8 ft wide x 9.5 ft high). The proposed structure will be located on a 6.07-acre property on State Road PR-365, Km. 8.3, Bo. Rubias, La Culata Sector (18°07'42.9"N 66°53'19.6"W) in the municipality of Yauco. No tree clearing or vegetation removal will be required.

Using the U.S. Fish and Wildlife Service's (Service) Information for Planning and Consultation (IPaC) system, the PRDOH has determined that the proposed project site is located within the range of Puerto Rican boa (*Chilabothrus inornatus*), Puerto Rican broad-winged hawk (*Buteo platypterus brunnescens*), Puerto Rican sharp-shinned hawk (*Accipiter striatus venator*), *Puerto* Rican parrot (*Amazona vittata*) and Puerto Rican harlequin butterfly (*Atlantea tulita*).

PRDOH used the Caribbean Determination Key (DKey) in the IPaC application to evaluate the potential impacts of the proposed project on federally listed species (Project code: 2024-017112). Based on the answers provided, a consistency letter was obtained for the Puerto Rican boa, Puerto Rican broad-winged hawk and Puerto Rican sharp-shinned hawk, which determined that the proposed actions for this project may affect, but is likely to adversely affect (MLAA) these species.

Based on the nature of the project, scope of work, information available, and analysis of the existing habitat (low grasses and ruderal vegetation with adjacent forested areas), PRDOH has determined that the proposed project may affect, but is not likely to adversely affect (NLAA) the Puerto Rican boa, Puerto Rican broad-winged hawk and Puerto Rican sharp-shinned hawk instead of the MLAA obtained by using the DKey. Conservation measures will be implemented in case an encounter with this species occur. As for the Puerto Rican parrot and Puerto Rican harlequin butterfly, PRDOH has determined that the proposed actions will NLAA these species with the implementation of conservation measures.

We have reviewed the information provided and our files, and concur with PRDOH's determination that the proposed project may affect, but is not likely to adversely affect the above mentioned species with the implementation of the conservation measures.

In view of this, we believe that requirements of section 7 of the Endangered Species Act (Act) have been satisfied. However, obligations under section 7 of the Act must be reconsidered if: (1) new information reveals impact of this identified action that may affect listed species or critical habitat in a manner that was not previously considered; (2) this action is subsequently modified in a manner not previously considered in this assessment; or, (3) a new species is listed, or critical habitat determined that may be affected by the identified action.

Thank you for the opportunity to comment on this project. If you have any questions or require additional information, please contact us via email at <u>caribbean_es@fws.gov</u> or by phone at (786) 244-0081.

Sincerely,

LOURDES MENA Digitally signed by LOURDES MENA Date: 2024.09.13 11:54:58 -04'00'

Lourdes Mena Field Supervisor

drr

cc: SWCA HUD



February 2, 2024

Carlos A. Rubio Cancela State Historic Preservation Officer Puerto Rico State Historic Preservation Office Cuartel de Ballajá (Tercer Piso) San Juan, PR 00902-3935

Puerto Rico Disaster Recovery, CDBG-DR Re-Grow PR Urban-Rural Agricultural (Re-Grow PR) Program

Section 106 NHPA Effect Determination Submittal: PR-RGRW-01327 – Miguel Marrero Torres/ DBA Finca Sector Los Marrero – Carr. 772 Km. 7.8 Interior Bo. Canabón, Sector Los Marrero, Barranquitas, Puerto Rico and Carretera 155, KM 23.7 Int, Barrio Saltos, Sector Los Rosados, Orocovis, Puerto Rico – No Historic Properties Affected

Dear Architect Rubio Cancela,

In accordance with Section 106 of the National Historic Preservation Act and its implementing regulations, 36 CFR Part 800, HORNE is providing information for your review and requesting your concurrence regarding the above-referenced projects on behalf of the Puerto Rico Department of Housing (PRDOH). On February 9, 2018, an allocation of Community Development Block Grant - Disaster Recovery (CDBG-DR) funds was approved by the United States Department of Housing and Urban Development (HUD) under the Federal Register Volume 83, No. 28, 83 FR 5844, to assist the Commonwealth of Puerto Rico in meeting unmet needs in the wake of Hurricanes Irma and Maria. On August 14, 2018, an additional \$8.22 billion recovery allocation was allocated to Puerto Rico under the Federal Register Volume 83, No. 157, 83 FR 40314. With these funding allocations, the Puerto Rico Department of Housing (Housing) aims to lead a comprehensive and transparent recovery for the benefit of Puerto Rico residents.

On behalf of PRDOH and the subrecipient, the Puerto Rico Department of Agriculture, HORNE is submitting documentation for activities proposed by Miguel Marrero Torres/ DBA Finca Sector Los Marrero located at Carr. 772 Km. 7.8 Interior Bo. Canabón, Sector Los Marrero, in the municipality of Barranquitas and at Carretera 155, KM 23.7 Int, Barrio Saltos, Sector Los Rosados, in the municipality of Orocovis. The undertaking for this project includes the purchase and installation of a 20' x 20' greenhouse, two 1,000-gallon cisterns, an electric generator, agricultural equipment, fence materials, sprinklers, ñame supplies, fertilizer, and a plow. For the proposed activities in the Municipality of Barranquitas the greenhouse and the two cisterns will require ground disturbance. The greenhouse will be anchored to 10' spaced supports buried 2 feet deep, and the proposed installation area will be leveled. The two cisterns will be installed on plastic pallets provided by the applicant. The water needed



will be provided by an existing communal water well and transported via above ground pipes. The proposed activities in the Municipality of Orocovis involve the installation of a barbed wire fence as a pig enclosure with 10-12 inches wide posts buried 6-8 inches deep.

Based on the submitted documentation, the Program requests a concurrence that a finding of no historic properties affected is appropriate for this proposed project.

Please contact me by email at lauren.poche@horne.com or phone at 225-405-7676 with any questions or concerns.

Kindest regards,

Lauren Bair Poche, M.A.

Architectural Historian, EHP Senior Manager

LBP/JLE

Attachments

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM
REGROW PUERTO RICO PROGRAM
Section 106 NHPA Effect Determination



Applicant: Miguel Marrero Torres/ DBA Finca Sector Los Marrero

Case ID: PR-RGRW-01327 City: Barranquitas/Orocovis

Project Location: Carr. 772 Km. 7.8 Interior Bo. Canabón, Sector Los Marrero, Barranquitas / Carretera 155, KM 23.7 Int, Barrio Saltos, Sector Los Rosados, Orocovis, PR

Project Coordinates: Barranquitas: 18.237132 -66.347909, 18.238488 -66.347243, 18.238762 -66.347711; Orocovis: 18.214155 -66.399803, 18.213738, -66.399313

TPID (Número de Catastro): Barranquitas: 220-035-230-83, 220-035-230-81; Orocovis: 245-017-109-16, 245-007-109-03

Type of Undertaking:

☐ Substantial Repair/Improvements

Construction Date (AH est.): n/a

Property Size (acres): 18.5-Baranquitas; 8.24-Orocovis

SOI-Qualified Archaeologist: Jaqueline López Meléndez

Date Reviewed: October 17, 2023; November 7, 2023

In compliance with Section 106 of the National Historic Preservation Act (NHPA), the Program is responsible for identifying historic properties listed in the NRHP and any properties not listed that would be considered eligible for listing that are located within the geographic area of potential effects (APE) of the proposed project and assessing the potential effects of its undertakings on these historic properties.

Project Description (Undertaking)

The proposed activities for PR-RGRW-01327 consist of the purchase and installation of a 20' x 20' greenhouse, two 1,000-gallon cisterns, an electric generator, agricultural equipment, fence materials, sprinklers, ñame supplies, fertilizer, and a plow. For the proposed activities in the Municipality of Barranquitas the greenhouse and the two cisterns will require ground disturbance. The greenhouse will be anchored to 10' spaced supports buried 2 feet deep, and the proposed installation area will be leveled. The two cisterns will be installed on plastic pallets provided by the applicant. The water needed will be provided by an existing communal water well and transported via above ground pipes. The project area for the proposed greenhouse and cisterns is located at Carr. 772 Km 7.8, Interior, Bo. Canabón, Sector Los Marrero within the Municipality of Barranquitas.

The proposed activities in the Municipality of Orocovis involve the installation of a barbed wire fence as a pig enclosure with 10-12 inches wide posts buried 6-8 inches deep. The project area for the proposed fence is located at Bo Salto, Carr 155, PR, Puerto Rico, 00720, within the Municipality of Orocovis.

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM

REGROW PUERTO RICO PROGRAM

Section 106 NHPA Effect Determination

Applicant: Miguel Marrero Torres/ DBA Finca Sector Los Marrero

Case ID: PR-RGRW-01327

City: Barranquitas/Orocovis

Area of Potential Effects

As defined in 36 CFR §800.16(d), the area of potential effects (APE) is the geographic area or areas within which an undertaking may directly or indirectly cause changes in the character or use of historic properties if any such properties exist. Based on this definition and the nature and scope of the Undertaking, the Program has determined that the direct APE in Barranquitas is the location of the greenhouse and the two cisterns, plus a 15-meter buffer. The direct APE in Orocovis is the location of the barbed wire fence plus a 15-meter buffer. The visual APE includes the viewsheds of the proposed project locations in Barranquitas and Orocovis.

Identification of Historic Properties – Archaeology

Municipality of Barranquitas

Existing information on previously identified historic properties has been reviewed to determine if any such properties are located within the APE of this undertaking. The review of this existing information by a Program contracted Historic Preservation Specialist meeting the Secretary of the Interior's Professional Qualification Standards (36 CFR Part 61), shows that there are no reported archaeological sites, archaeological materials of significant cultural properties within a half-mile (0.50 miles) radius of the project location. The closest reported archaeological site to the PR-RGRW-01327 project area is the Pre-Columbian site Botijas I (SHPO: OR0100030) located 0.59 miles southwest. The proposed project is located in Barranquitas, at an elevation between 1,804 and 1,968 feet above sea level. Per the USGS/NRCS Web Soil Survey, the project area is within mapped soil series: Múcara and Humatas. The project area APE is in MxF and HtF. The nearest bodies of water are: an unnamed creek, located 0.24 miles northwest and Cañabón river, located 0.38 miles southwest. The coast is approximately 16.90 miles north from the project area.

There are no cultural resource studies within a half-mile radius of the property.

The cisterns will be installed in an area with MxF soils and the greenhouse where we have HtF soils. The soil Múcara clay, 40 to 60 percent slopes (MxF) is a very steep, moderately deep, well-drained soil on side slopes and rounded hilltops of strongly dissected uplands. The soil Humatas clay, 40 to 60 percent slopes (HtF) is a deep soil, very steep, and well drained. It is on the side slopes and ridgetops of humid volcanic uplands. The permeability and available water capacity of this Humatas soil are moderate. Runoff is very rapid, and fertility is medium. Slope and an erosion hazard make this soil poorly suited for cultivated crops.

The project area does not have cultural resources that are listed either on the National Register of Historic Places (NRHP) or in a Traditional Urban Center or Historic District. On

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM
REGROW PUERTO RICO PROGRAM
Section 106 NHPA Effect Determination

Applicant: Miguel Marrero Torres/ DBA Finca Sector Los Marrero

Case ID: PR-RGRW-01327

City: Barranquitas/Orocovis

October 16, 2023, we visually inspected the project area. The project area is located in the rural area of Barranquitas, in a property with variable topography.

Municipality of Orocovis

Existing information on previously identified historic properties has been reviewed to determine if any such properties are located within the APE of this undertaking. The review of this existing information by a Program contracted Historic Preservation Specialist meeting the Secretary of the Interior's Professional Qualification Standards (36 CFR Part 61), shows that there are no reported archaeological sites, archaeological materials of significant cultural properties within a half-mile (0.50 miles) radius of the project location. The closest reported archaeological site to the PR-RGRW-01327 project area is the Pre-Columbian site OR-19/OR-20 (SHPO: OR0100021) located 0.51 miles northeast. The proposed project is located in Orocovis, at an elevation between 2,231 and 2,428 feet above sea level. Per the USGS/NRCS Web Soil Survey, the project area is within mapped soil series: Maricao. The project area APE is in MxF. The nearest body of water is: Los Saltos creek, located 0.26 miles west. The coast is approximately 15.88 miles southwest from the project area.

There are no cultural resource studies within a half-mile radius of the property.

There is one (1) archaeological study within 0.50 miles radius of the project area, with negative results.

The fence will be installed in an area with MxF and MoF soils. The soil Maricao clay, 20 to 60 percent slopes (MoF) is a steep to very steep, well-drained soil on side slopes and narrow hilltops of the strongly dissected uplands. Permeability and the available water capacity are moderate. Runoff is very rapid, and erosion is a hazard. This soil is difficult to work because it is steep to very steep and because of the stickiness and plasticity of the clay.

The project area does not have cultural resources that are listed either on the National Register of Historic Places (NRHP) or in a Traditional Urban Center or Historic District. On November 3, 2023, we visually inspected the project area. The project area is located in the rural area of Orocovis, in a property with variable topography.

Determination

The project area in the Municipality of Barranquitas is not within or adjacent to the boundaries of a National Register of Historic Places (NRHP)-eligible or listed historic district or Traditional Urban Center. There are no reported archaeological materials or significant cultural properties within a half-mile radius of the proposed project location. There are no known archaeological sites or NRHP listed/eligible historic properties are within or adjacent to the property or the parcel in which the Area of Potential Effect of case PR-RGRW-01327 is located. The construction of public roads and agricultural infrastructure has minimally impacted the surrounding terrain.

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM REGROW PUERTO RICO PROGRAM Section 106 NHPA Effect Determination	GOVERNMENT OF PUERTO RICO DEPAREMENT OF HOUSING
Applicant: Miguel Marrero Torres/ DBA Finca Sector Los Marrero	
Case ID: PR-RGRW-01327	City: Barranquitas/Orocovis

The project area in the Municipality of Orocovis is not within or adjacent to the boundaries of a National Register of Historic Places (NRHP)-eligible or listed historic district or Traditional Urban Center. There are no reported archaeological materials or significant cultural properties within a half-mile radius of the proposed project location. There are no known archaeological sites or NRHP listed/eligible historic properties are within or adjacent to the property or the parcel in which the Area of Potential Effect of case PR-RGRW-01327 is located. The construction of public roads and agricultural infrastructure has minimally impacted the surrounding terrain.

Therefore, no historic properties will be affected by the proposed project activities in Barranquitas and Orocovis.

Recommendation (Please keep on same page as SHPO Staff Section)

following determination is appropriate for the undertaking (Choose One):
No Historic Properties Affected ■ No Historic Properties Affected No Historic Properties
□ No Adverse Effect
Condition (if applicable):
□ Adverse Effect
Proposed Resolution (if appliable)
This Section is to be Completed by SHPO Staff Only
The Puerto Rico State Historic Preservation Office has reviewed the above information and:
□ Concurs with the information provided.
□ Does not concur with the information provided.
Comments:

Carlos Rubio-Cancela	Data
State Historic Preservation Officer	Date:

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM REGROW PUERTO RICO PROGRAM	GOVERNMENT OF PUER TO RICO
Section 106 NHPA Effect Determination	DEPARTMENT OF HOOSING
Applicant: Miguel Marrero Torres/ DBA Finca Sector Los Marrero	, , ,
Case ID: PR-RGRW-01327	City: Barranquitas/Orocovis

Table 1: Municipality of Barranquitas

Table of archaeological sites, historic properties and historic districts located within the project area or within a 0.50-miles radius.

Name	SHPO id #	IPRC id #	Distance/Direction	Description	NRHP (listed, eligible, non- eligible, no data)
None	-	-	-	-	-

Table 2: Municipality of Orocovis

Table of archaeological sites, historic properties and historic districts located within the project area or within a 0.50-miles radius.

Name	SHPO id #	IPRC id #	Distance/Direction	Description	NRHP (listed, eligible, non- eligible, no data)
None	-	-	-	-	-

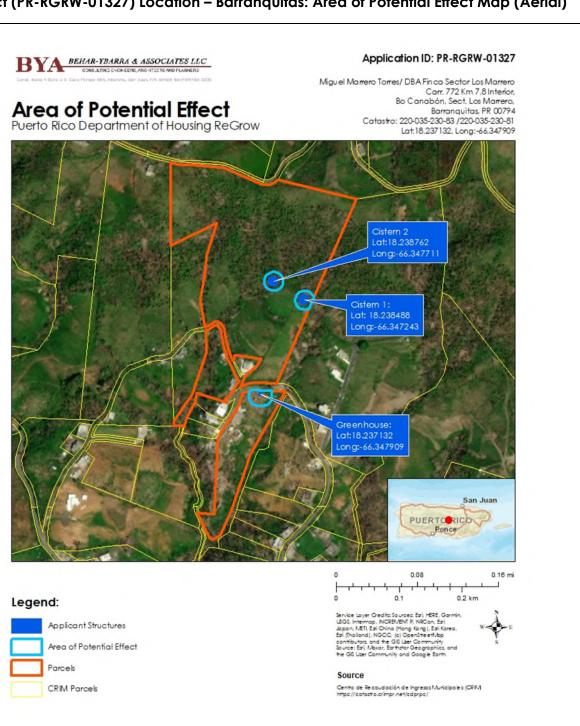
Table of cultural resources surveys conducted within the project area or within a 0.50-miles radius.

Author	Phase/Title	Year	SHPO / IPRC code	Results	Distance/ Direction
Juan González	IA-IB/ Improvements to the water supply system of Orocovis and Barranquitas	1995	ICP/CAT-OR- 95-02-02, SHPO: 03- 14-95-04	Negative	0.12 mi E



Case ID: PR-RGRW-01327 City: Barranquitas/Orocovis

Project (PR-RGRW-01327) Location – Barranquitas: Area of Potential Effect Map (Aerial)





Case ID: PR-RGRW-01327 City: Barranquitas/Orocovis

Project (PR-RGRW-01327) Location – Orocovis: Area of Potential Effect Map (Aerial)



Area of Potential Effect

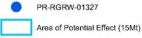
Puerto Rico Department of Housing ReGrow

Application ID: PR-RGRW-01327

Miguel Marrero Torres/ DBA Finca Sector Los Marrero Car retera 155, KM 23.7 Int, Bo. Saltos, Sector Los Rosados, Orocovis, PR, 00720 Catastro: 245-017-109-16 / 245-007-109-03 Lat: 18.214155, Long: -66.399803 / Lat: 18.213738, Log: -66.399313

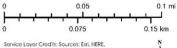






Fences

Parcels-Orocovis



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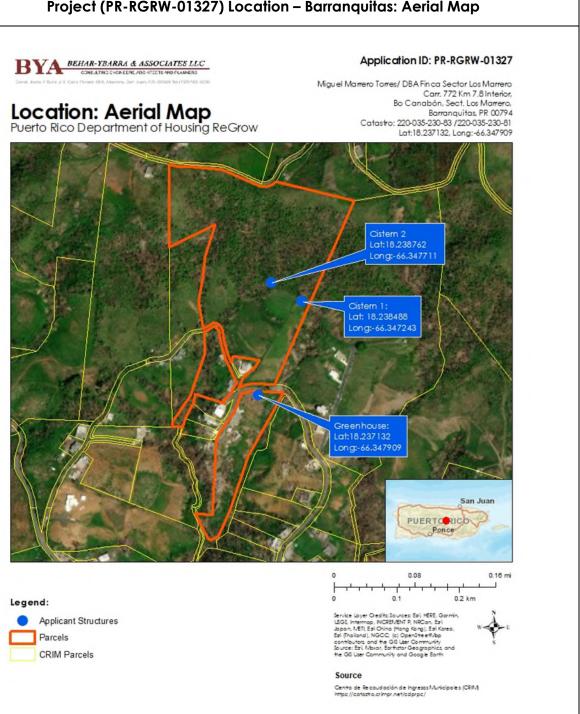
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Case ID: PR-RGRW-01327 City: Barranquitas/Orocovis

Project (PR-RGRW-01327) Location – Barranquitas: Aerial Map





Case ID: PR-RGRW-01327 City: Barranquitas/Orocovis

Project (PR-RGRW-01327) Location – Orocovis: Aerial Map

BYA BEHAR-YBARRA & ASSOCIATES LLC CONSULTING ENGINEERS, ARCHITECTS AND PLANNERS

Location: Aerial MapPuerto Rico Department of Housing ReGrow

Application ID: PR-RGRW-01327

Miguel Marrero Torres/ DBA Finca Sector Los Marrero Carretera 155, KM 23.7 Int, Bo. Saltos, Sector Los Rosados, Orocovis, PR, 00720 Catastro: 245-017-109-16 / 245-007-109-03 Lat:18.214155, Long: -66.399803 Lat: 18.213738, Log: -66.399313

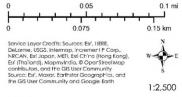




PR-RGRW-01327

Fences Parcels-Orocovis

CRIM Parcels

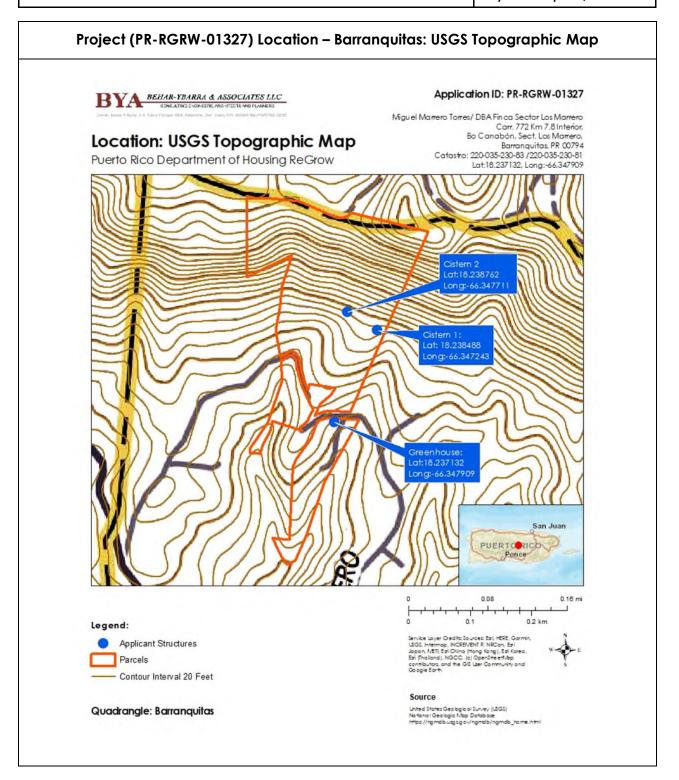


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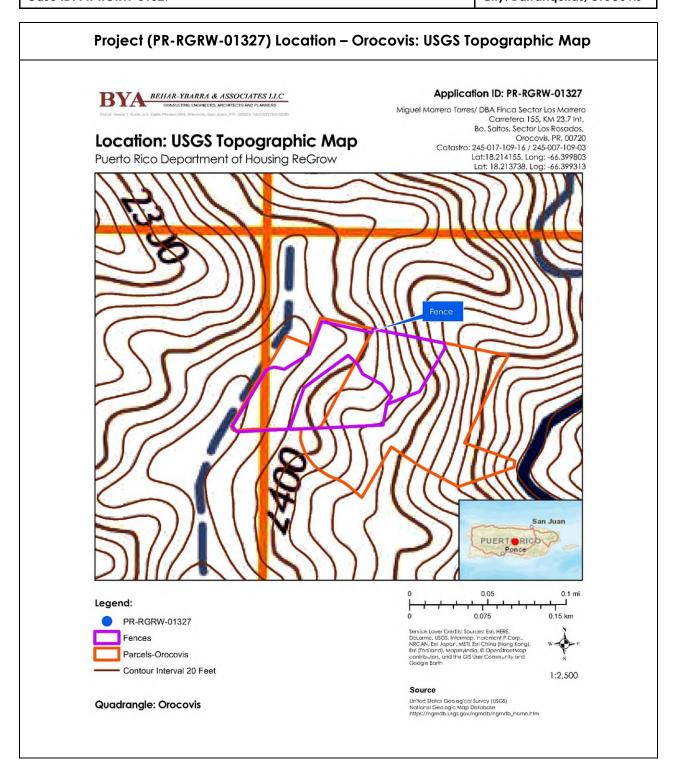


Case ID: PR-RGRW-01327 City: Barranquitas/Orocovis





Case ID: PR-RGRW-01327 City: Barranquitas/Orocovis





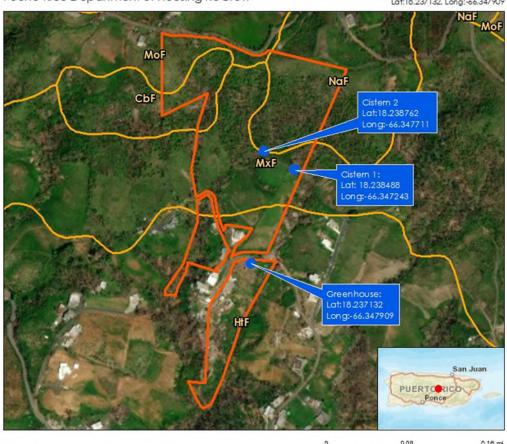
Case ID: PR-RGRW-01327 City: Barranquitas/Orocovis

Project (PR-RGRW-01327) Location – Barranquitas: Soils Map



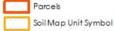
Application ID: PR-RGRW-01327

Miguel Marrero Torres/ DBA Fin ca Sector Los Marrero Carr. 772 Km 7.8 Interior, Bo Canabón, Sect. Los Marrero Rocardo Rocardo



Legend:

Applicant Structures



Soil Map Unit Symbol

CbF - Caguabo-Rock outcrop complex, 20 to 60 percent slopes

HtF - Humatas clay, 40 to 60 percent slopes MoF - Maricao clay, 20 to 60 percent slopes

MxF - Mucara clay, 40 to 60 percent slopes

NaF - Naranjito silty clay loam, 40 to 60 percent slopes



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Cento de Recaudación de Ingresas Municipales (CRIM) https://catastro.crimpr.net/cdprpc/



Case ID: PR-RGRW-01327 City: Barranquitas/Orocovis

Project (PR-RGRW-01327) Location – Orocovis: Soils Map

BYA BEHAR-YBARRA & ASSOCIATES LLC

Soils MapPuerto Rico Department of Housing ReGrow

Application ID: PR-RGRW-01327

Miguel Marrero Torres/ DBA Finca Sector Los Marrero Carretera 155, KM 23.7 Int, Bo. Saltos, Sector Los Rosados, Orocovis, PR, 00720 Catastro: 245-017-109-16 / 245-007-109-03 Lat: 18.214155, Long: -66.399803 Lat: 18.213738, Log: -66.399313



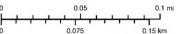


PR-RGRW-01327

Fences Parcels-Orocovis Soil Map Unit Symbol

Soil Map Unit Symbol

MoF - Maricao clay, 20 to 60 percent slopes MxE - Mucara clay, 20 to 40 percent slopes MxF - Mucara clay, 40 to 60 percent slopes



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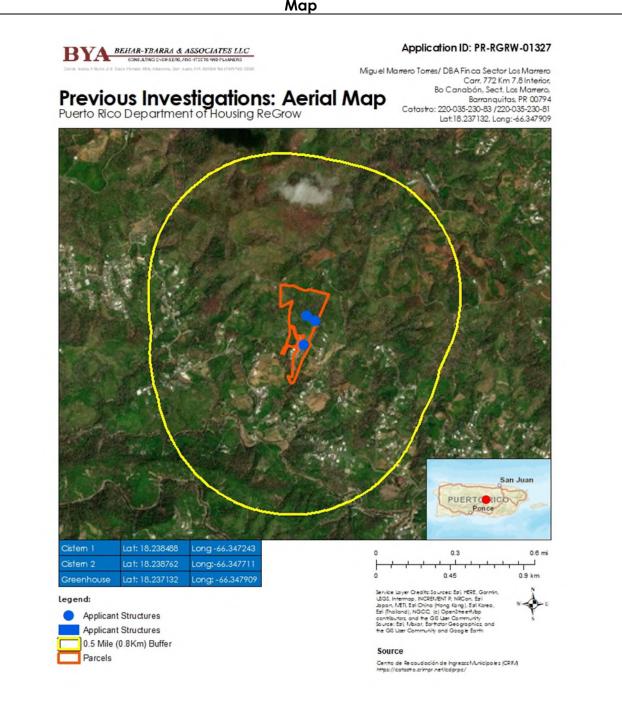


Centro de Recaudación de Ingresos Municipales (CRIM) https://calastro.crimpr.net/cdprpc/



Case ID: PR-RGRW-01327 City: Barranquitas/Orocovis

Project (PR-RGRW-01327) Location – Barranquitas: Previous Investigations - Aerial Map





Case ID: PR-RGRW-01327 City: Barranquitas/Orocovis

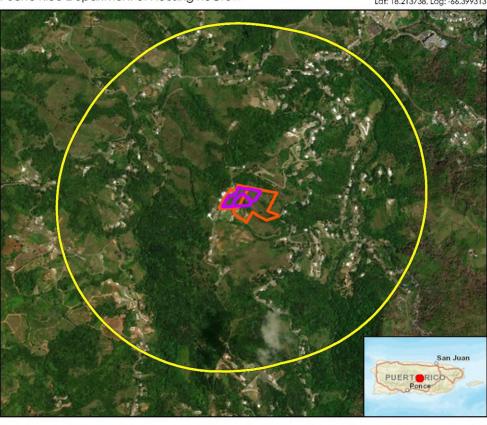
Project (PR-RGRW-01327) Location – Orocovis: Previous Investigations – Aerial Map

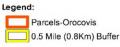


Application ID: PR-RGRW-01327

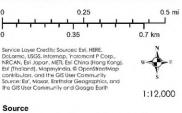
Miguel Marrero Torres/ DBA Finca Sector Los Marrero Carretera 155, KM 23.7 Int, Bo. Saltos, Sector Los Rosados, Previous Investigations: Aerial Map
Puerto Rico Department of Housing ReGrow

Orocovis, PR. 00720
Catastro: 245-017-109-16 / 245-007-109-0
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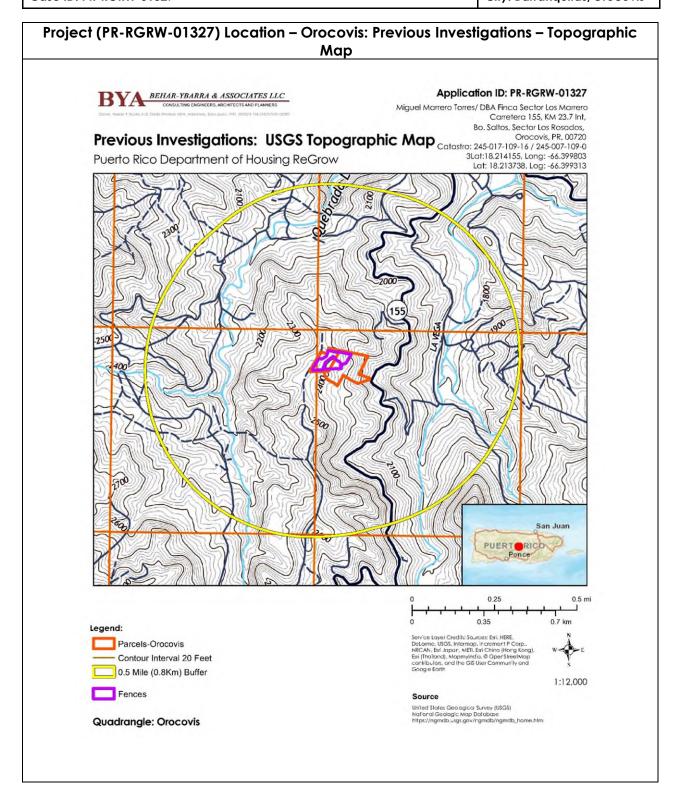


Case ID: PR-RGRW-01327 City: Barranquitas/Orocovis

Project (PR-RGRW-01327) Location - Barranquitas: Previous Investigations –Topographic Map Application ID: PR-RGRW-01327 BYA BEHAR-YBARRA & ASSOCIATES LLC Miguel Marrero Torres/ DBA Finca Sector Los Marrero Carr. 772 Km 7.8 Interior, Bo Canabón, Sect. Los Marrero, Previous Investigations: USGS Topographic Map Barranquitas, PR 00794 Catastro: 220-035-230-83 /220-035-230-81 Puerto Rico Department of Housing ReGrow Lat:18.237132, Long:-66.347909 San Juan PUERTORICO 0.6 mi Lat: 18.238762 Long:-66.347711 Lat: 18.237132 0.45 Service Layer Credits Sources: Ear, LIERE. DeLarme, USGS, Intermap, increment P Corp., NRCAN, Ear Japan, NRTL Earl Chine (Hong Kong Eri (Tholiank), Moomylefa, in OpenStreetMap contributors, and the GIS User Community and Goog e Earl. Legend: Applicant Structures 0.5 Mile (0.8Km) Buffer Parcels Source Contour Interval 20 Feet United States Geologica Survey (USGS) National Geologic Map Database https://ngmdb.usgs.gov/ngmdb/ngmdb_bama.html Quadrangle: Barranquitas

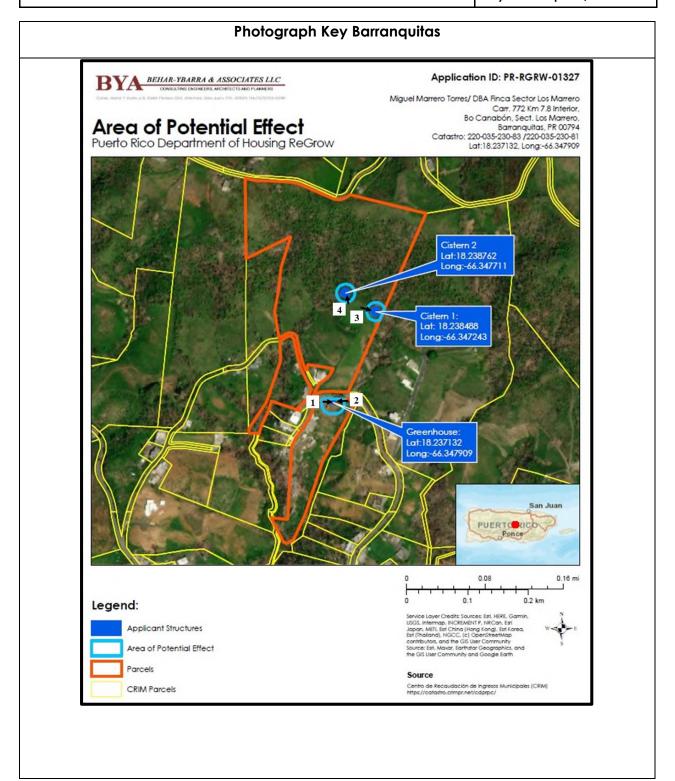


Case ID: PR-RGRW-01327 City: Barranquitas/Orocovis





Case ID: PR-RGRW-01327 City: Barranquitas/Orocovis





Case ID: PR-RGRW-01327 City: Barranquitas/Orocovis

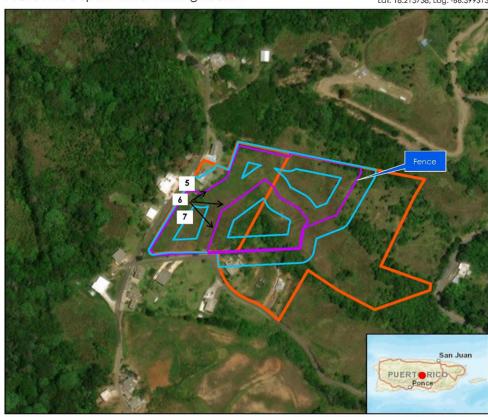
Photograph Key- Orocovis



Area of Potential Effect Puerto Rico Department of Housing ReGrow

Application ID: PR-RGRW-01327

Miguel Marrero Torres/ DBA Finca Sector Los MarreroCar retera 155, KM 23.7 Int, Bo. Saltos, Sector Los Rosados, Orocovis, PR, 00720 Catastro: 245-017-109-16 / 245-007-109-03 Lat: 18.214155, Long: -66.399803 / Lat: 18.213738, Log: -66.399313

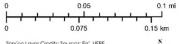


Legend:



Area of Potential Effect (15Mt)

Parcels-Orocovis



Service Layer Credits: Sources: Esr', HERE, DeLorme, USCS, Intermap, Increment IP Corp., NRCAN, Est Jopan, MEIL Est (China (Hong Kong), Est (Thoi and), Mapmiyindia, @ Open'SteelMap contribution, and the GS User Community Source: Est, Maxar, Earthstar Geographic, and the GS User Google Est in the Gib User Community and Google Est in the Community and Google Est in the Community and Coogle Est in the Community and Coogle Est in the Coople E

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Source

Centro de Recaudación de Ingresos Municipa es (CRIM) https://catastra.crimpr.net/cdprpc/

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM REGROW PUERTO RICO PROGRAM Section 106 NHPA Effect Determination



Applicant: Miguel Marrero Torres/ DBA Finca Sector Los Marrero

Case ID: PR-RGRW-01327 City: Barranquitas/Orocovis



Photo #: 1

Date: October 16, 2023

Description (include direction): General area where the greenhouse will be installed, looking east. Municipality of Barranquitas.



Photo #: 2

Date: October 16, 2023

Description (include direction): General area where the greenhouse be installed, looking west. Municipality of Barranquitas.

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM
REGROW PUERTO RICO PROGRAM
Section 106 NHPA Effect Determination



Applicant: Miguel Marrero Torres/ DBA Finca Sector Los Marrero

Case ID: PR-RGRW-01327 City: Barranquitas/Orocovis



Photo #: 3

Date: October 16, 2023

Description (include direction): General area where the Cistern 1 will be installed, looking southeast. Municipality of Barranquitas.



Photo #: 4

Date: October 16, 2023

Description (include direction): General area where the Cistern 2 be installed, looking northwest. Municipality of Barranquitas.

Puerto Rico 2017 Disaster Recovery, CDBG-DR Program ReGrow Puerto Rico Program Section 106 NHPA Effect Determination



Applicant: Miguel Marrero Torres/ DBA Finca Sector Los Marrero

Case ID: PR-RGRW-01327 City: Barranquitas/Orocovis



Photo #: 5

Date: November 3, 2023

Description (include direction): General area where the fence will be installed, looking northeast. Municipality of Orocovis.



Photo #: 6

Date: November 3, 2023

Description (include direction): General area where the fence be installed, looking east. Municipality of Orocovis.

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM REGROW PUERTO RICO PROGRAM Section 106 NHPA Effect Determination



Applicant: Miguel Marrero Torres/ DBA Finca Sector Los Marrero

Case ID: PR-RGRW-01327 City: Barranquitas/Orocovis



Photo #: 7

Date: November 3, 2023

Description (include direction): General area where the fence will be installed, looking southeast. Municipality of Orocovis.



GOVERNMENT OF PUERTO RICO

STATE HISTORIC PRESERVATION OFFICE

Executive Director I Carlos A. Rubio-Cancela I carubio@prshpo.pr.gov

February 6, 2024

Lauren Bair Poche

HORNE- Architectural Historian Manager 10000 Perkins Rowe, Suite 610 Bldg G Baton Rouge, LA 70810

SHPO: CF-02-02-24-08 PRDOH – DR RE-GROW PROGRAM – PR – RGRW – 01327 FINCA SECTOR LOS MARRERO – CARR 772 KM. 7.8 INTERIOR BO. CANABON, SECTOR LOS MARRERO, BARRANQUITAS PUERTO RICO AND CARRETERA 155, KM BARRIO SALTOS, SECTOR LOS ROSADOS, OROCOVIS PUERTO RICO

Ms. Bair Poche,

Our Office has received and reviewed the above referenced project in accordance with 54 USC 306108 (commonly known as Section 106 of the National Historic Preservation Act, as amended) and 36 CFR Part 800: Protection of Historic Properties from the Advisory Council on Historic Preservation. The State Historic Preservation Officer (SHPO) is to advise and assist federal agencies and other responsible entities when identifying historic properties, assessing effects upon them, and considering alternatives to avoid or reduce the project's effects.

Our records support your finding of no historic properties affected within the project's area of potential effects.

Please note that should the Agency discover other historic properties at any point during project implementation, you should notify the SHPO immediately. If you have any questions concerning our comments, do not hesitate to contact our Office.

Sincerely,

Carlos A. Rubio-Cancela

State Historic Preservation Officer

CARC/GMO/OEDJR



OFICINA ESTATAL DE CONSERVACIÓN HISTÓRICA OFICINA DEL GOBERNADOR STATE HISTORIC PRESERVATION OFFICE



October 20, 2022

Arch. Carlos A. Rubio Cancela

Executive Director State Historic Preservation Officer Cuartel de Ballajá Bldg. San Juan, Puerto Rico

Re: Authorization to Submit Documents

Dear Arch. Rubio Cancela:

The U.S. Department of Housing (HUD) approved the allocations of Community Development Block Grant (CDBG-DR) funds on February 9, 2018. It also approved the allocation of Community Development Block Grant Mitigation (CDBG-MIT) funds on January 27, 2020. The purpose of these allocations is to address unsatisfied needs as a result of Hurricanes Irma and Maria in September 2017; and to carry out strategic and high-impact activities to mitigate disaster risks and reduce future losses.

To comply with the environmental requirements established by HUD, the Department of Housing of Puerto Rico (PRDOH) contracted Horne Federal LLC to provide environmental registry review services, among others, that will support the objectives of the agenda for both CDBG-DR and CDBG -MIT Programs.

In line to expedite the processes, Horne Federal LLC, is authorized to submit to the State Historic Preservation Officer, documentation of projects related to both the CDBG-DR and CDBG-MIT on behalf of PRDOH.

Cordially,

Juan C Pérez Bofill, P.E. M.Eng Director of Disaster Recovery CDBG DR-MIT





Memorandum to File

Date: 4/10/2025

From: Justin Neely

Environmental Manager

SKNeely

CDBG-DR Program

Regrow Puerto Rico Program

Puerto Rico Department of Housing

Application Number: PR-RGRW-01327-W-RE

Project: Miguel Marrero Torres/ DBA Finca Sector Los Marrero

Re: Justification for the Infeasibility and Impracticability of Radon Testing

After reviewing Application Number PR-RGRW-01327-W-RE under the Regrow Puerto Rico Program, administered by the Puerto Rico Department of Housing (**PRDOH**), to complete the property's contamination analysis in accordance with 24 C.F.R. § 50.3(i) and 24 C.F.R. § 58.5(i), we have determined that testing the property's radon levels is infeasible and impracticable.

Per the U.S. Department of Housing and Urban Development's (**HUD**) CPD Notice 23-103, the recommended best practices and alternative options for radon testing are infeasible and impracticable in this case due to the following reasons:

 As required by the CPD Notice 23-103, the scientific data reviewed in lieu of testing must consist of a minimum of ten documented test results over the previous ten years. If there are less than ten documented results over this

CDBG-DR Program
Regrow Puerto Rico Program
Memorandum to File
Infeasibility and Impracticability of Radon Testing
Page 2 of 3

period, it is understood that there is a lack of scientific data. The latest report for radon testing in Puerto Rico was prepared in 1995 by the U.S. Department of the Interior in Cooperation with the U.S. Environmental Protection Agency. No other completed studies and reports on radon testing are available in Puerto Rico.

- There is no available science-based or state-generated information for Puerto
 Rico for the last ten years that can be used to determine whether the project
 site is in a high-risk area. The Department of Health and Human Services,
 Centers for Disease Control and Prevention (CDC), National Environmental
 Public Health Tracking, and Radon Testing map do not include Puerto Rico data.
- There are only two (2) licensed professionals in Puerto Rico who can conduct radon testing using the American National Standards Institute/American Association of Radon Scientists and Technologists (ANSI/AARST) testing standards, which makes it difficult, time-consuming, and highly expensive to coordinate and secure a site visit for the contamination evaluation.
- Do-it-yourself (DIY) radon test kits are known to be unreliable in assuring and controlling the quality of the test results; they are not readily available in Puerto Rico, and the cost and time required for purchasing and sending them for analysis are unreasonable when weighed against the results' reliability and the need for prompt results.
- Local authorities in Puerto Rico do not have the specialized radon monitoring
 equipment or trained staff needed to conduct the radon testing analysis and
 ensure proper quality control and quality assurance practices are adhered to.
 We also do not have a radiation laboratory certified for radon testing.

CDBG-DR Program
Regrow Puerto Rico Program
Memorandum to File
Infeasibility and Impracticability of Radon Testing
Page 3 of 3

As part of the evaluation for this determination, PRDOH sent information requests to six (6) local agencies at the state and federal levels. We received responses from the following agencies:

- United States Geological Survey;
- Centers for Disease Control and Prevention;
- Puerto Rico Department of Health; and
- United States Environmental Protection Agency.

The agencies mentioned above confirmed the lack of scientific data on Radon testing for Puerto Rico and the technical difficulties that we face to comply with HUD's Radon testing requirement. For the above-mentioned reasons, Radon testing is infeasible and impracticable for this property, and no further consideration of Radon is needed for the environmental review.

	AP	PLICANT/LOCATION INFORMATION
Applicant ID:	PR-RGRW-01327	
Applicant Name:	Miguel Marrero Torres/ DBA Finca Sector Los Marrero	The state of the s
Parcel ID:	Barranquitas: 220-035-230-83, 220- 035-230-81; Orocovis: 245-017- 109-16, 245-007-109-03	
Latitude:	18.238354	
Longitude:	-66.347507	37 34
Street Address:	CARR 772 KM 7.8 Interior Barrio Cañabon, Sector Los Marreros	Che Che
Municipio:	Comerio / Orocovis	Jan Coloman
Zip Code:	00794	The way to the second
Site Inspector:	Egon Gonzalez	
Date of Visit:	September 28, 2023	(156)
Time of Visit:	11:19	Esri, HERE, Ga Powered by Esri
Building Type:		





Esri, HERE, Ga Powered by Esri

Esri, Maxar, Ea... Powered by Esri

	FIELD OBSERVATIONS				
	Question	Answer	Notes		
Α.	Is the structure in use?	No			
В.	Is the structure a greenhouse?	Yes	Structure will be a greenhouse		
C.	Is Electricity connected? (Utilities or Well)	Yes	Electricity provided by Electric company LUMA		
D.	Is water connected? (Utilities or Well)	Yes	Water provided from community water well		
1.	Are there signs of poor housekeeping on site? (mounds of rubble, garbage, strom debris, solid waste, petroleum products, paint, pesticides, cleaning fluids, vehicle batteries, abandoned vehicles, pits, pools, ponds of hazardous substances, etc.)	Yes			
2.	Are there any 55-gallon drums visible on site? If yes, are they leaking?	Yes	Herbicide Gly Star Plus		
3.	Are there any (or signs of any) underground storage tanks on the property?	No			
4.	Are there signs of AST on the parcel or adjacent parcel? If yes, list approximate size and contents, if known.	No			
5.	Is there any stained soil or pavement on the parcel?	No			
6.	Is a water drainage system in use?	No			
7.	Is a warehouse in use for storage of Fertilizer or Pesticides?	No			
8.	Are there any groundwater monitoring wells on the site or adjacent parcel?	Yes	Ground monitoring well near parcel		
9.	Is there evidence of a faulty septic system?	No			
10.	Is there distressed vegetation on the parcel?	No			
11.	Is there any visible indication of mold?	No			
12.	Is there any visible evidence of asbestos, chipping, and flaking or peeling paint, or hazardous materials present in or on the structure?	No			
13.	Are any additional site hazards observed?	No			
14.	Is there any permanent standing water, such as a pond or stream, located on the site(do not include ponding from recent rain / weather events)?	No			
15.	Does the subject property have water frontage?	No			
16.	Is there any indication of the presence of wetlands?	No			
17.	Are there any obvious signs of animals or birds nesting on or near the site?	No			
18.	Is the applicant aware of any significant historical event or persons associated with the structure, or of it being located in a historic district/ area?	No			



19. Is a historic marker present? No

Front of Structure

Photo Direction: Barranquitas

Comments: Greenhouse: 18ft x 25ft Coordinates: 18.237132, -66.347909



Facing Away from Front

Photo Direction:



Side #1 of Structure

Photo Direction:

Comments:



Facing Away From Side #1

Photo Direction:



Back of Structure

Photo Direction:

Comments:



Facing Away from Back

Photo Direction:



Side #2 of Structure

Photo Direction:

Comments:



Facing Away from Side #2

Photo Direction:



Streetscape #1

Photo Direction:

Comments:



Streetscape #2

Photo Direction:



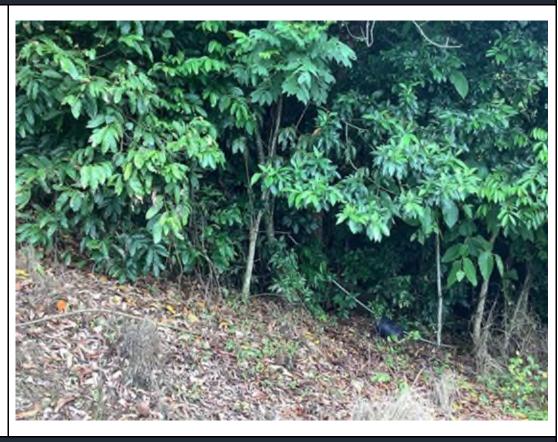
Address

Photo Direction:



Photo Direction:

Photo Description: Water cistern #1 will go over plastic pallets and will be500gal or 1000gal Coordinates: 18.238488, -66.347243



Architectural Details 2

Photo Direction:

Photo Description: Water cistern #1



Photo Direction:

Photo Description: Water cistern #1



Architectural Details 4

Photo Direction:

Photo Description: Water pipes laid over ground



Photo Direction:

Photo Description: Water fed from stream by gravity



Architectural Details 6

Photo Direction:

Photo Description: Water cistern #2 500gal or 1000gal Coordinates: 18.238762, -66.347711



Photo Direction:

Photo Description: Water cistern #2 water will be provided by community water well



Architectural Details 8

Photo Direction:

Photo Description: Water cistern #2





Photo Direction:

Photo Description: Water cistern #2



Architectural Details 10

Photo Direction:

Photo Description: Overview Greenhouse

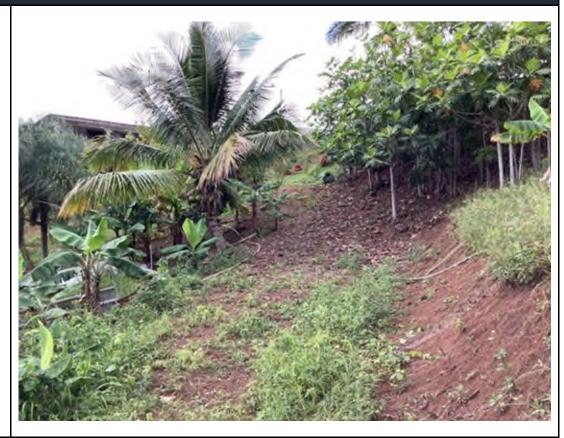


Photo Direction:

Photo Description: Generator, fertilizer and pesticide storage



Architectural Details 12

Photo Direction:

Photo Description: Generator, fertilizer and pesticide storage



Photo Direction:

Photo Description: Pig farm



Architectural Details 14

Photo Direction:

Photo Description: Electricity provided by electric company



Photo Direction:

Photo Description: Pig farm



Architectural Details 16

Photo Direction:

Photo Description: Pig farm





Photo Direction:

Photo Description: Herbicide 55Gal drum Gly star Plus



Architectural Details 18

Photo Direction:

Photo Description: Abandoned ehicle





Photo Direction:

Photo Description: Water monitoring well



Architectural Details 20

Photo Direction: Orocovis

Photo Description: Proposed fence



Photo Direction:	Architectural Details 21
Photo Description:	
	Architectural Details 22
Photo Direction:	
Photo Description:	

February 6, 2025

TO: José M. Olmo Terrasa, Esq.

Deputy Director for Economic Recovery Grant Management Re-Grow PR Urban Rural Agriculture Program

RE: Endangered Species Concurrence - Conservation Measures Implementation

Miguel Marrero Torres DBA Finca (PR-RGRW-01327)

Dear Mr. Olmo:

This memorandum is to notify the CDBG-DR Re-Grow PR Urban-Rural Agriculture Program (Re-Grow Program) that on October 28, 2024, for the case **PR-RGRW-01327**, the CDBG-DR/MIT Permits and Environmental Compliance Division submitted an informal consultation under Section 7 (a)(2) of the Endangered Species Act (Act) (87 Stat. 884, as amended; 16 United States Code 1531 et seq.), and in accordance with the Fish and Wildlife Coordination Act (47 Stat. 401, as amended; 16 U.S.C. 661 et seq.) for the proposed project of the construction of a fence and to acquire agricultural infrastructure, for Miguel Marrero Torres DBA Finca, an agricultural business, located at PR-155 Km 23.7, Saltos Ward, Los Rosados Sector, Orocovis, PR 00720; longitude 18.214155, latitude - 66.399803.

Using the Information for Planning and Consultation (IPaC) system, the proponent has determined that the proposed project lies within the range of the following federally listed species:

Name of Species Status			
Puerto Rican Boa	Endangered		
Puerto Rican Parrot Endangered			
Puerto Rican Broad-Winged Hawk Endangered			
Critical Habitat			
There were no Critical Habitats noted within the project area.			

The United States Fish and Wildlife Service (USFWS) Caribbean Ecological Services Field Office reviewed the information provided and their files, and on January 10, 2025 concurred with the determination that the proposed project actions will have **May Affect**, **but is Not Likely to Adversely Affect (NLAA)** the Puerto Rican Boa, Puerto Rican Parrot, and Puerto Rican Broad-Winged Hawk.

The USFWS NLAA concurrence is conditioned to the following: (1) if a Boa is encountered, the Conservation Measures will be in accordance with the USFWS Puerto Rican Boa Conservation Measures 2024, (2) if a Puerto Rican Parrot is encountered on the site, the USFWS Caribbean Office will be notified immediately and (3) if a Puerto Rican Broadwinged Hawk is encountered on the site, the USFWS Caribbean Office will be notified immediately.

Obligations under section 7 of the Act must be reconsidered if: (1) new information reveals impacts of this identified action that may affect listed species or critical habitat in a manner that was not previously considered; (2) this action is subsequently modified in a manner not previously considered in this assessment; or, (3) a new species is listed, or critical habitat determined that may be affected by the identified action.

In conclusion, the USFWS concurred with the CDBG-DR/MIT Permits and Environmental Compliance Division NLAA determination. However, the applicant must be informed about the conditions of the determination of concurrence and implement them as described.

In order to facilitate the species identification, please, find attached the Caribbean Endangered and Threatened Animals Fact Sheets for: the Puerto Rican Boa, Puerto Rican Parrot, and Puerto Rican Broad-Winged Hawk.

USFWS Caribbean Ecological Services Field Office key contact information:

 José Cruz-Burgos, Endangered Species Coordinator Office phone (786) 244-0081 or mobile (305) 304-1386 Email: jose_cruz-burgos@fws.gov

Sincerely,

Permits and Environmental Compliance Division Disaster Recovery Office

Caribbean ES Puerto Rican Boa

Puerto Rican Boa

Generated August 01, 2024 02:11 PM UTC, IPaC v6.112.0-rc2



IPaC - Information for Planning and Consultation (https://ipac.ecosphere.fws.gov/): A project planning tool to help streamline the U.S. Fish and Wildlife Service environmental review process.

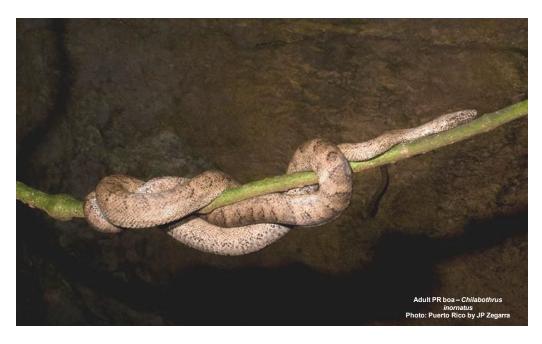


U.S. FISH AND WILDLIFE SERVICE CARIBBEAN ECOLOGICAL SERVICES FIELD OFFICE

Conservation Measures for the Puerto Rican boa (Chilabothrus inornatus)

Section 7 (a)(1) of the Endangered Species Act (ESA) charges Federal agencies to aid in the conservation of listed species, and section 7 (a)(2) requires the agencies, through consultation with the U.S. Fish and Wildlife Service (Service), to ensure their activities are not likely to jeopardize the continued existence of listed species or adversely modify designated critical habitats. Section 7 applies to the management of Federal lands as well as Federal actions that may affect federally listed species, such as Federal approval of private activities through the issuance of Federal funding, permits, licenses, or other actions. Any person that injures, captures, or kills a Puerto Rico boa is subject to penalties under the ESA. If Federal funds or permits are needed, the funding or permitting agency should initiate Section 7 consultation with the Service. To initiate a consultation under the Section 7 of the ESA, you must submit a project package with the established minimum requirements. These conservation measures should be incorporated into the project plans to minimize possible impacts to the species.

The endangered Puerto Rican (PR) boa (*Chilabothrus inornatus*, formerly *Epicrates inornatus*) is the largest endemic snake species that inhabits Puerto Rico. The PR boa is non-venomous and does not pose any life threatening danger to humans, but some individuals may try to bite if disturbed or during capture or handling. Its body color ranges from tan to dark brown with irregular diffuse marking on the dorsum, but some individuals lack marking and are uniformly dark. Juveniles may have a reddish color with more pronounced markings. In general, as they mature, their body color tends to darken.



Last Revised: January 2024

The PR boa was federally listed in 1970. Currently, the species has an island-wide distribution and occurs in a wide variety of habitat types, ranging from wet montane to subtropical dry forest and can be found from mature forest to areas with different degrees of human disturbance such as roadsides or houses, especially if near their habitat in rural areas. The PR boa is considered mostly nocturnal, remaining less active, concealed or basking under the sun during the day.

The Service has developed the following conservation measures with the purpose of assisting others to avoid or minimize adverse effects to the PR boa and its habitat. These recommendations may be incorporated into new project plans and under certain circumstances into existing projects. Depending on the project, additional conservation measures can be implemented besides the ones presented in this document.

Conservation Measures:

- 1. Inform all project personnel about the potential presence of the PR boa in areas where the proposed work will be conducted. A pre-construction meeting should be conducted to inform all project personnel about the need to avoid harming the species as well as penalties for harassing or harming PR boas. An educational poster or sign with photo or illustration of the species should be displayed at the project site.
- Prior to any construction activity, including removal of vegetation and earth movements, the boundaries of the project and areas to be excluded and protected should be clearly marked in the project plan and in the field in order to avoid further habitat degradation into forested and conservation areas.
- 3. Once areas are clearly marked, and prior to the use of heavy machinery and any construction activity (including removal of vegetation and earth movement), a biologist or project personnel with experience on this species should survey the areas to be cleared to verify the presence of any PR boa within the work area.
- 4. If a PR boa is found within any of the working or construction areas, activities should stop at that area and information recorded (see #5). **Do not capture the boa.** If boas need to be moved out of harm's way, designated personnel shall immediately contact the Puerto Rico Department of Natural and Environmental Resources (PRDNER) Rangers for safe capture and relocation of the animal (PRDNER phone #s: (787) 724-5700, (787) 230-5550, (787) 771-1124). **If immediate relocation is not an option, project-related activities at that area must stop until the boa moves out of harm's way on its own**. Activities at other work sites, where no boas have been found after surveying the area, may continue.
- 5. For all boa sightings (dead or alive), record the time and date of the sighting and the specific location where it was found. PR boa data should also include a photo of the animal (dead or alive), site GPS coordinates, the time and date, and comments on how the animal was detected and its behavior.

Last Revised: January 2024

- 6. If a PR boa is captured by PRDNER personnel, record the name of that person and information on where the PR boa will be taken. This information should be reported to the Service.
- 7. Measures should be taken to avoid and minimize PR boa casualties by heavy machinery or motor vehicles being used on site. Any heavy machinery left on site (staging) or near potential PR boa habitat (within 50 meters of potential boa habitat), needs to be thoroughly inspected each morning before work starts to ensure that no boas have sheltered within engine compartments or other areas of the equipment. If PR boas are found within vehicles or equipment, do not capture the animal, and let it move on its own or call PRDNER Rangers for safe capture and relocation of the animal (see #4). If not possible, the animal should be left alone until it leaves the vehicle on its own.
- 8. PR boas may seek shelter in debris piles. Measures should be taken to avoid and minimize boa casualties associated with sheltering in debris piles as a result of project activities. Debris piles should be placed far away from forested areas. Prior to moving, disposing or shredding, debris piles should be carefully inspected for the presence of boas. If debris piles will be left on site, we recommend they be placed in areas that will not be disturbed in the future.
- 9. If a dead PR boa is found, immediately cease all work in that area and record the information accordingly (see #5). If the PR boa was accidentally killed as part of the project actions, please include information on what conservation measures had been implemented and what actions will be taken to avoid further killings. A dead boa report should be sent by email (see contacts below) to the Service within 48 hours of the event.
- 10. Projects must comply with all state laws and regulations. Please contact the PRDNER for further guidance.

If you have any questions regarding the above conservation measures, please contact the Service:

- José Cruz-Burgos, Endangered Species Program Coordinator
 - o Email: jose cruz-burgos@fws.gov
 - o Office phone (305) 304-1386
- Jan Zegarra, Fish and Wildlife Biologist
 - o Email: jan zegarra@fws.gov
 - o Office phone (786) 933-1451

Guaraguao de bosque Buteo platypterus brunnescens



Distribución



Familia: Accipitridae Orden: Falconiformes

<u>Descripción</u>

El guaraguao de bosque de Puerto Rico o guaraguaito es de color marrón oscuro con barras blancas y rojizas en la parte ventral. Es una subespecie endémica de Puerto Rico de tamaño mediano, que mide aproximadamente 39 centímetros (15.5 pulgadas). Es más pequeño que el Buteo platypterus platypterus pero más grande que la subespecie que ocurre en las Antillas Menores. El guaraguao de bosque es la subespecie de halcón de ala ancha más oscuro. En los adultos, la cola es de un color negro claro con bandas blancas horizontales en la base, medio y extremo de la cola, y esto, junto con el pecho rojizo, caracteriza a la especie. Los machos y las hembras son muy similares en apariencia, pero las hembras son un poco más grandes. Las aves juveniles tienen barras oscuras en el pecho y no tienen las bandas distintivas en la cola. La población del guaraguao de bosque de Puerto Rico oscila cerca de los 125 individuos.

Información biológica

Reproducción

Esta especie anida en bosques secundarios maduros y plantaciones antiguas. En el Bosque Estatal de Río Abajo (RACF, por sus siglas en inglés), los sitios de anidación están caracterizados por la presencia de árboles tales como el palo María (Calophyllum antillanum), la teca (Tectona grandis), la caoba hondureña (Swietenia macrophylla) y la majagua (Hibiscus elatus). Los guaraguaos de bosque colocan sus nidos en la parte superior de árboles grandes que sobrepasan la cubierta forestal. Información recientemente recopilada sobre la abundancia y características demográficas del guaraguao de bosque en RACF indica un alto nivel de fidelidad entre parejas; una tasa de sobrevivencia en nidos de 0.67 a través de la temporada de reproducción; y una productividad de 1.1 crías por nido. Entre los años 2001 a 2003, se marcaron con radio transmisores y se colocaron bandas en las patas a varias crías de guaraguaos en el RACF. En 2013, al visitar el área donde se marcaron, se documentó que seguían vivas (Llerandi-Román and Ríos-Cruz pers. comm.). Por ejemplo, una hembra joven que fue marcada entre el 2001 al 2003 en el RACF fue documentada anidando exitosamente entre los años 2007 al 2009. (Ríos-Cruz pers. comm.)

Hábitat

Esta especie habita en bosques enanos, bosques de palmas de sierra, de caimitillo-granadillo y de tabonuco. Estos bosques se encuentran en las reservas forestales del Bosque Estatal de Carite, Bosque Estatal Toro Negro, Bosque Los Tres Picachos y el Bosque Nacional El Yunque. También habita en

AMENAZADA

plantaciones madereros maduros, en cafetales bajo sombra y en bosques secundarios maduros del área de carso al norte-central de Puerto Rico dentro y cerca del Bosque Estatal de Río Abajo y el área de Río Encantado entre los pueblos de Florida y Ciales. La topografía húmeda de los bosques del carso le provee al guaraguao de bosque otra alternativa como área para anidar. En estudios recientes, se han documentado miembros de una especie similar de guaraguao (guaraguao de cola roja; *Buteo jamaicensis jamaicensis*) anidando en las laderas del carso adyacentes al RACF.

Distribución

El guaraguao de bosque es un ave de rapiña poco común y extremadamente localizado, que se encuentra en los bosques montañosos de tierra alta de Puerto Rico. Las poblaciones existentes se hallan primariamente dentro de cinco bosques: el RACF, el Bosque Estatal Carite, el Bosque Estatal Toro Negro, el Bosque Los Tres Picachos y el Bosque Nacional El Yunque. Llerandi-Román (2006) halló trece territorios de guaraguao de bosque justo fuera de los límites de RACF, en seis sitios diferentes con hábitat apropiado para los guaraguaos de bosque. Los territorios se encuentran a lo largo del valle del Río Tanamá, al noroeste del RACF

Amenazas

La abundancia y la distribución del guaraguao de bosque es limitada. Cualquier amenaza que atente contra su población y su hábitat puede resultar en detrimento para esta especie. De forma natural, los huracanes constituyen una amenaza ya que destruyen su hábitat debido a las intensas lluvias y a los fuertes vientos. No obstante, existe una gran variedad de actividades humanas que también amenazan las poblaciones de esta especie. La construcción de instalaciones recreativas, de estructuras para energía y comunicaciones y de carreteras contribuye a la destrucción y fragmentación de su hábitat. De igual manera, la caza ilegal, las malas prácticas de manejo y la carencia de planes de manejo para los bosques públicos también afectan las poblaciones del guaraguao de bosque. Los bajos números poblacionales de esta especie pueden, por sí mismos, estar afectando la población ya que se pierde la variación genética de esta.

Medidas de conservación

El guaraguao de bosque está incluido en la lista de especies amenazadas desde el 1994. La Ley Federal de Especies en Peligro de Extinción de 1973, según enmendada, prohíbe matar, dañar, molestar, atrapar, comprar o vender una especie, así como partes o productos derivados de ellas. El tener la especie en la lista federal fomenta y ayuda a crear acciones de conservación por las agencias federales, estatales, privadas, y por grupos e individuos particulares. La Ley de Especies En Peligro fomenta la compra de terrenos y la cooperación con el Estado, y requiere que se ejecuten acciones de recuperación en relación a todas las especies listadas. Entre las medidas esenciales para proteger el hábitat y fomentar el crecimiento de las poblaciones existentes están: la protección de los sitios de anidamiento y alimento en las áreas públicas y privadas, el mejoramiento de los hábitats, la reforestación en áreas abiertas, la actualización de la información acerca de la distribución y la identificación o creación de corredores biológicos entre poblaciones cercanas (tales como RACF, Los Tres Picachos y Toro Negro) con tal de facilitar el movimiento de los guaraguaos de bosque entre los bosques.

Referencias

Delannoy, C.A. 1992. Status surveys of the Puerto Rican sharp-shinned hawk (*Accipiter striatus venator*) and Puerto Rican broad-winged hawk (*Buteo platypterus brunnescens*). Final report submitted to the U.S. Fish and Wildlife Service as specified in work contract no. 14-16-0004-91-031.

Hengstenberg D.W., and F.J. Vilella. 2004. Nesting Ecology and Behavior of Broad-winged Hawks in Moist Karst Forests of Puerto Rico. Journal of Raptor Research. 39(4): 404-416.

Hernández, E. 1980. Estudio de aves, reptiles y anfibios en la reserva forestal de Carite. Informe presentado como requisito del curso Ciencias Naturales 306, Programa de Mantenimiento Ambiental. Facultad de Ciencias Naturales, Universidad de Puerto Rico, Recinto de Rio Piedras, Rio Piedras, Puerto Rico.

Llerandi –Roman, I.C. 2006. Red-tailed Hawk Home range, habitat use, and activity patterns in north-central Puerto Rico. Thesis. Mississippi State University. Mississippi State, MS.

Llerandi-Román, I.C., Rios-Cruz, J.M. and F.J. Vilella. 2009. Cliff-nesting by the Red-tailed Hawk in Moist Karst Forests of Northen Puerto Rico.

AMENAZADA

Miranda-Castro, L., A.R. Puente, and S. Vega-Castillo. 2000. First list of the vertebrates os Los Tres Picachos State Forest, Puerto Rico, with data on relative abundance and altitudinal distribution. Caribbean Journal of Science 36(1-2):117-126.

Raffaele, H.A. 1989. A guide of the Birds of Puerto Rico and the Virgin Islands. Princeton University Press, New Jersey.

Snyder, N.F., J.W. Wiley and C.B. Kepler. 1987. The parrots of Luquillo: Natural history and conservation of the Puerto Rican parrot. Western Foundation of Vertebrate Zoology, Los Angeles, California.

U.S. Fish and Wildlife Service. 2010. Puerto Rican broad-winged hawk or guaraguao de bosque (*Buteo platypterus brunnescens*) 5-Year Review. Caribbean Ecological Services Field Office, Boquerón, Puerto Rico.

U.S. Fish and Wildlife Service. 1994. Endangered and Threatened Wildife and Plants; Determination of Endangered Status for the Puerto Rican broad-winged hawk and the Puerto Rican sharpshinned hawk. Federal Register 59:46710-46715.

Wiley, J.W. and G.P. Bauer. 1985. Caribbean National Forest, Puerto Rico. American Birds 39:12-18.

Vilella F.J. & D.W. Hengstenberg. 2006. Broad-Winged Hawk (*Buteo platypterus brunnecsens*) movement and habitat use in a moist limestone forest of Puerto Rico. Ornitología Neotropical. 17: 563–579

Información adicional

Oficina de Servicios Ecológicos del Caribe Dirección: PO Box 491, Boquerón, PR 00622 Teléfono: 787-851-7297 / Fax: 787-851-7440 Internet: www.fws.gov/caribbean





Cotorra puertorriqueña Amazona vittata vittata



Familia: Psittacidae Orden: Psittaciformes

Descripción

La cotorra puertorriqueña o Iguaca, como la llamaban los indios taínos, es un ave verde brillante con una mancha roja en la frente, un anillo blanco alrededor del ojo y plumas primarias azules. Su pico es color marfil y el borde de su cola es redondo. Los juveniles son bastante parecidos a los adultos. Tanto hembras como machos son parecidos y miden cerca de doce pulgadas (aprox. 30 centímetros). A veces, la franja roja en la frente es más ancha en los machos que en las hembras. Mientras vuela emite un fuerte y ruidoso "kar...kar." Este sonido se escucha a gran distancia. Emite otros sonidos para comunicarse con otras cotorras y para defender su territorio.

<u>Información biológica</u>

Reproducción

La cotorra puertorriqueña alcanza su edad reproductiva entre los 3 a 5 años. Las cotorras usualmente forman

parejas que perduran por mucho tiempo, normalmente de por vida. Las parejas permanecen juntas casi todo el año, excepto cuando la hembra está incubando y el macho asume la responsabilidad de proveer alimento. La cotorra usa como nido las cavidades que se encuentran en árboles de gran tamaño como el palo colorado (Cyrilla racemiflora), entre otros. De ser necesario, también podría anidar en las cavidades de roca caliza. El anidamiento comienza en los meses de febrero y marzo, hasta junio. Tradicionalmente, la anidación coincide con el período más seco del año y durante el período de fructificación (producir frutos) de plantas cuyas semillas, frutas y hojas le sirven de alimento.

Distribución

Dieta

La cotorra come plantas tales como: palma de sierra, palma real, maricao, maria, guaba, cupey, guaraguao y yagrumo, entre otros árboles.

Distribución

La cotorra puertorriqueña, ave endémica a Puerto Rico fue abundante en Puerto Rico, incluyendo las islas de Culebra, Vieques y Mona. Esta cotorra es la última especie de psitácidos existentes y originaria en territorio de los Estados Unidos. Los psitácidos son la familia de aves, en su mayoría tropicales, con plumas de colores vivos y pico corto, alto y muy encorvado (ej. guacamayo y cotorra). La población silvestre de cotorras puertorriqueñas se limita actualmente a la Sierra de Luquillo, mayormente en el Bosque Nacional El Yunque, al este de Puerto Rico y en el Bosque Estatal de Río Abajo, en el norte central de Puerto Rico, entre Arecibo y Utuado. Al menos tres de las cotorras liberadas en Río Abajo se han dispersado y en 2012 fueron vistas entre Morovis, Vega Baja y Manatí.

Amenazas

Además de tener una población pequeña y una distribución limitada, la especie también se ve afectada por el zorzal pardo (Margarops fuscatus) quien mata los huevos y pichones de la cotorra para usar el nido. El guaraguao colirojo (Buteo jamaicensis), el guaraguaito de bosque (Buteo platypterus brunnescens) y las ratas (Rattus rattus y R. norvegicus) son depredadores mortales de cotorras juveniles y adultas. Las moscas parasíticas (Philornis pici) depositan sus larvas en los pichones de aves para completar su ciclo de desarrollo. Estas moscas enferman y matan a los pichones. Las abejas europeas y africanas (Apis mellifera) invaden los nidos de la cotorra para formar adentro sus colmenas. También pueden matar a los pichones. Los huracanes y otros eventos climatológicos pueden afectar la estabilidad de la especie en su estado natural. La pérdida de hábitat por la deforestación es una amenaza que siempre está presente y limita las opciones de lugares aptos para reintroducir la cotorra a la vida silvestre.

Medidas de conservación

La cotorra puertorriqueña fue designada como especie en peligro de extinción en el año 1967, antes de que la Ley de Especies en Peligro de Extinción de 1973 entrara en vigor. Existe un Acuerdo Cooperativo entre el Servicio Federal de Pesca y Vida Silvestre, el Departamento de Recursos Naturales y Ambientales y el Servicio Forestal de los Estados Unidos para manejar de forma conjunta la recuperación de la cotorra puertorriqueña. Las tres agencias constituyen el Comité de Recuperación de la Cotorra Puertorriqueña. Inicialmente, se estableció un programa de propagación en cautiverio que, con el tiempo, ha crecido para incluir liberaciones de cotorras al estado silvestre, monitoreo de las poblaciones silvestres, manejo del hábitat e investigación. Otras entidades privadas y académicas se han unido a los esfuerzos para realizar investigaciones y educar.

El Comité realiza censos de cotorras periódicamente y estima que existen ente 18 a 22 cotorras en El Yunque y cerca de 60 a 70 en Río Abajo. Los biólogos de campo utilizan múltiples estrategias para manejar el hábitat. La escasez de árboles maduros con cavidades

requiere que se construyan e instalen nidos artificiales para que la cotorra puertorriqueña anide. También, los expertos controlan las poblaciones de las especies depredadoras, cuando es necesario, para asegurar el desarrollo normal de los huevos y de los pichones.

La población en cautiverio se mantiene para varios propósitos: reproducir cotorras y aumentar su número, asegurar poblaciones adicionales, particularmente en el caso de una catástrofe natural tal como un huracán, y para, eventualmente, poder proveer aves para reintroducirlas a los bosques donde habitaban. En los aviarios, se utilizan técnicas avanzadas para diagnosticar enfermedades y proveer tratamiento. Actualmente, hay cerca de 350 cotorras entre el Aviario Iguaca, manejado por el Servicio Federal de Pesca y Vida Silvestre en El Yunque, y en el Aviario José L. Vivaldi, manejado por el Departamento de Recursos Naturales y Ambientales de Puerto Rico, en el Bosque Estatal Río Abajo.

La Ley Federal de Especies en Peligro de Extinción de 1973, según enmendada, prohíbe matar, dañar, molestar, atrapar, comprar o vender una especie, así como partes o productos derivados de ellas

Referencias

Snyder, N.F., J.W. Wiley, and C.B.Kepler. 1987. The parrots of Luquillo: Natural history and conservation of the Puerto Rican parrot. West. Found. Vet. Zool., Los Angeles.

U.S. Fish and Wildlife Service. 2009. Revisión final al Plan de Recuperación para la Cotorra Puertorriqueña (*Amazona vittata*).

Thomas H. White, Jr. and Fernando Núñez-García. "From Cage to Rainforest" U. S. Fish and Wildlife Service. 2008-06-04

Información adicional

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October 17, 2024

Lourdes Mena
Field Supervisor
Caribbean Ecological Services Field Office
U.S. Fish and Wildlife Service
Office Park I, Suite 303
State Road #2 Km 156.5
Mayagüez, Puerto Rico 00680
Email: Caribbean_es@fws.gov;
Lourdes_Mena@fws.gov

RE: Informal Consultation for PR-RGRW-01327 at Carr. 772 Km. 7.8 Interior Bo. Canabón, Sector Los Marrero in Barranquitas, PR, 00794.

Dear Ms. Mena:

The Puerto Rico Department of Housing is requiring informal consultation under Section 7 (a)(2) of the Endangered Species Act (Act) (87 Stat. 884, as amended; 16 United States Code 1531 et seq.), and in accordance with the Fish and Wildlife Coordination Act (47 Stat. 401, as amended; 16 U.S.C. 661 et seq.) for the proposed project PR-RGRW-01327. The project scope of work (SOW) is divided between two locations. In the municipality of Barranquitas, the plan includes the installation of a greenhouse, two cisterns, and the purchase of an electric generator and agricultural equipment. For the municipality of Orocovis, it involves acquiring agricultural infrastructure for the construction of a fence. This consultation will focus on the town of Barranquitas, located at coordinates for the two water cisterns: 18.238762, -66.347711; 18.238488, -66.347243 and greenhouse at: 18.237132, -66.347909 on Carr. 772 Km. 7.8 Interior Bo. Canabón, Sector Los Marrero in Barranquitas, PR, 00794, see Figure 1: Location Map and Figure 2: Topographic Map. The project is part of the Re-Grow Puerto Rico Urban-Rural Agriculture Program (RGRW) that aims to increase agricultural capacity while promoting and increasing food security inland wide. This Program will enhance and expand agricultural production related to economic revitalization and sustainable development activities.

The proposed activities for PR-RGRW-01327 in the municipality of Barranquitas consist of the purchase and installation of a 20' x 20' greenhouse, two 1,000-gallon cisterns, an electric inverter generator and agricultural equipment. The agricultural equipment includes: Prunell PPT 2620, Blower PB 9010, thread rolls, mesh masks, plastics mesh, telescopic manual bar, aprons, one gallon of mixture, Arnett STHIL and caps. The greenhouse measures 20' x 20' and will be anchored to 10' spaced supports buried 2 feet deep, and will be built with aluminum pillars and arches and a plastic cover on the roof. The proposed area for the greenhouse installation will be leveled, requiring the removal of vegetation such as grass, but no tree cutting will be necessary. The greenhouse will be installed directly on bare soil and will remain that way. The water needed for the greenhouse will come from the new cisterns and all pipes will be above ground. The two cisterns will be installed on plastic pallets on bare soil and the area will be leveled, also requiring the removal of vegetation such as grass, but no tree cutting will be necessary. The water needed to fill the cisterns will be provided by an existing community water well and transported via above ground pipes. The electric inverter generator is to pump water into the cisterns, and it does not require a transfer switch. No new connections will be necessary. The new generator will



be stored in an existing structure. This structure is a storage facility right next to the farm owner's residence. The generator will be moved depending on where it would be needed. The generator is equipped with wheels, making it portable and not permanently fixed to the ground. The Area of Potential Effect (APE) has been defined as the area potentially impacted by ground disturbing activities related to the installation of the cisterns and the greenhouse, see Figure 3: Area of Potential Effect.

Existing Conditions and Trends:

The proposed project parcel 220-035-230-83 and 220-035-230-81, the areas are designated as not prime farmland, See Figure 4: Farmland Protection Map. The project location is in a rural area of Barranquitas. This location has a variable topography and the area where the greenhouse and cisterns will be placed is covered in grass, refer to Photo 1 to 4. The ground in the area will need to be leveled slightly, which will require the removal of some vegetation, like grass, but no trees will be cut. Per the USGS/NRCS Web Soil Survey, the project area is within mapped soil series: Múcara (MxF) and Humatas (HtF). The land has been used for agricultural uses for over 20 years and the proposed project will not change the land use associated with these placements. The closer Final Critical Habitat is located 70,675 feet from the project location, see Figure 5: Critical Habitats Map. There are no wetlands located on or near the project activity area, see Figure 6: Wetlands Map.

Using the Information for Planning and Consultation (IPaC) system (See Exhibit B), we have determined that the proposed project lies within the range of the following federally listed species and critical habitats:

Name of species Threatened/Endangered/Candidate			
Reptiles			
Puerto Rican boa (Chilabothrus inornatus) Endangered			
Critical Habitat			
There are no critical habitats within the project area.			

The nature of the project, scope of work, information available, a careful analysis of the IpaC, the Puerto Rico Boa conservation measures, the Caribbean Dkey dated October 15, 2024, in the US Fish and Wildlife Service's online IPaC application, and the observations during the field visit, were used to evaluate the potential impacts to federally listed species from this project. Based on that information and the answer inputted into the Dkey and since ground disturbance will occur, it was determined that the proposed action will have "May affect, but not likely to adversely affect" determination on the Puerto Rican Boa, see Exhibit B.

Name of the species		Effect Determination	Conservation Measures that		
					will be implemented
Puerto	Rican	boa	(Chilabothrus	May Affect, but is Not	Puerto Rican Boa Conservation
inornatu	us)			Likely to Adversely	Measures 2024
				Affect (NLAA)	
Critical Habitats					
There are no critical habitats within the project area.					



In order to complete the informal consultation process, we are requesting your concurrence for the NLAA determination for the Puerto Rican Boa. Attached to this letter, we are including the documents used to reach our effect determinations for the listed species. See Exhibit D for conservation measures for the NLAA species. Should you require any additional information, please contact Paige Pilkinton at paige.pilkinton@horne.com.

References:

Puerto Rican boa (Chilabothrus inornatus)

Species Profile: https://ecos.fws.gov/ecp/species/6628 USFWS Puerto Rican boa Conservation Measures



Exhibit A: Figures





Location: Aerial Map
Puerto Rico Department of Housing ReGrow

Miguel Marrero Torres/ DBA Finca Sector Los Marrero Carr. 772 Km 7.8 Interior, Bo Canabán, Sect. Los Marrero, Barranquitas, PR 00794 Catastro: 220-035-230-83 /220-035-230-81 Lat:18.237132, Long:-66.347909

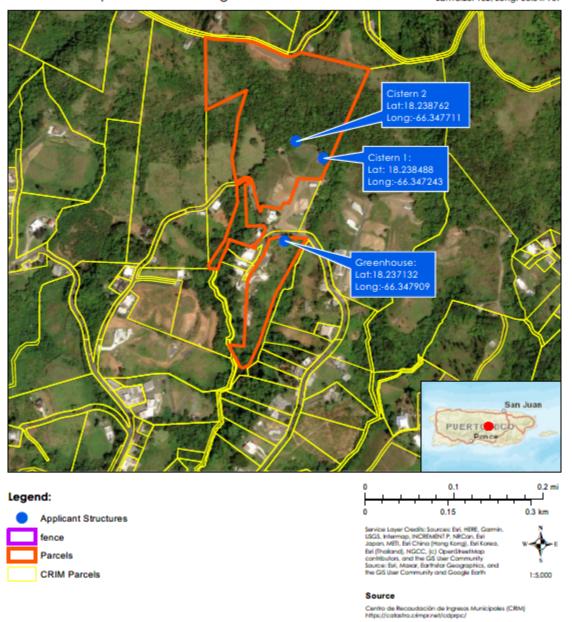


Figure 1: PR-RGRW-01327 Location Map





Miguel Marrero Torres/ DBA Finca Sector Los Marrero Carr. 772 Km 7.8 Interior, Bo Canabón, Sect. Los Marrero, Barranquitas, PR 00794 Catastro: 220-035-230-83 /220-035-230-81 Lat:18.237132, Long:-66.347909

Location: USGS Topographic Map

Puerto Rico Department of Housing ReGrow

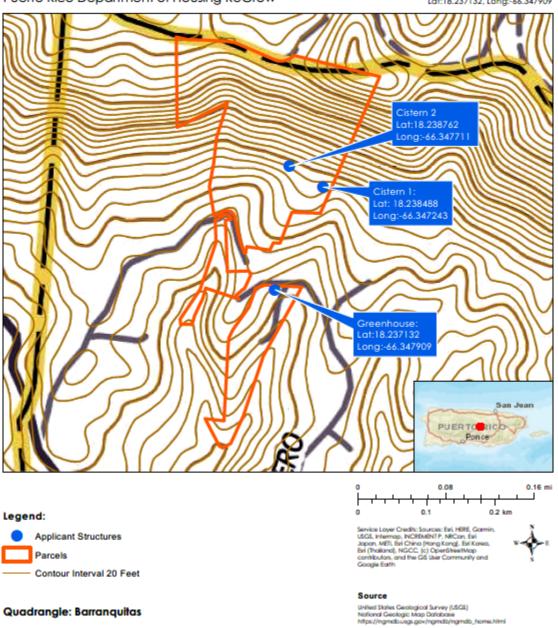


Figure 2: PR-RGRW-01327 Topographic Map





Miguel Marrero Torres/ DBA Finca Sector Los Marrero Carr. 772 Km 7.8 Interior, Bo Canabón, Sect. Los Marrero, Barranquitas, PR 00794 Catastro: 220-035-230-83 /220-035-230-81 Lat:18.237132, Long:-66.347909

Area of Potential Effect

CRIM Parcels

Puerto Rico Department of Housing ReGrow

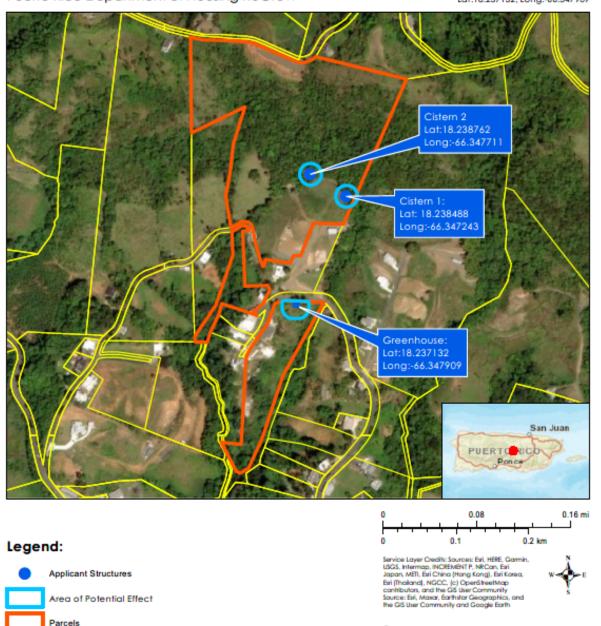


Figure 3: PR-RGRW-01327 Area of Potential Effect Map

Source

Centro de Recaudación de Ingresos Municipales (CRIM) https://catastro.crimpr.net/catprpc/





Farmland Protection

Puerto Rico Department of Housing ReGrow

Miguel Marrero Torres/ DBA Finca Sector Los Marrero Carr. 772 Km 7.8 Interior, Bo Canabán, Sect. Los Marrero, Barranquitas, PR 00794 Catastro: 220-035-230-83 /220-035-230-81 Lat:18.237132, Long:-66.347909

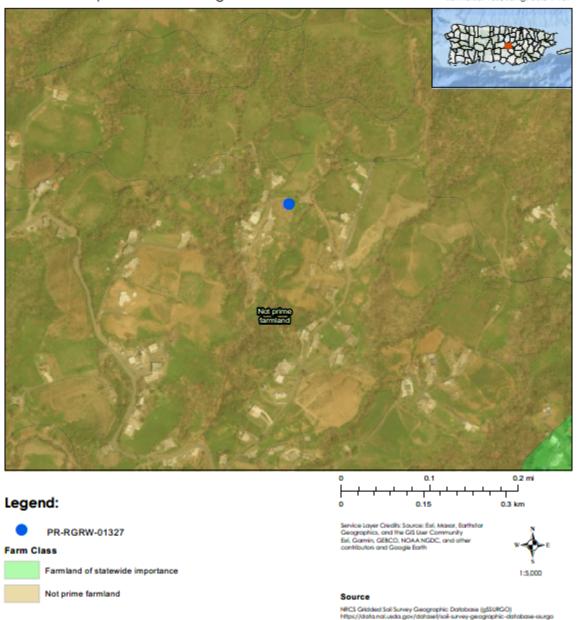


Figure 4: PR-RGRW-01327 Farmland Protection Map





Miguel Marrero Torres/ DBA Finca Sector Los Marrero Carr. 772 Km 7.8 Interior,

Bo Canabón, Sect. Los Marrero, Barranquitas, PR 00794

Catastro: 220-035-230-83 /220-035-230-81 Lat:18.237132, Long:-66.347909

Threatened and Endangered Species
Puerto Rico Department of Housing ReGrow



Figure 5: PR-RGRW-01327 Critical Habitats Map

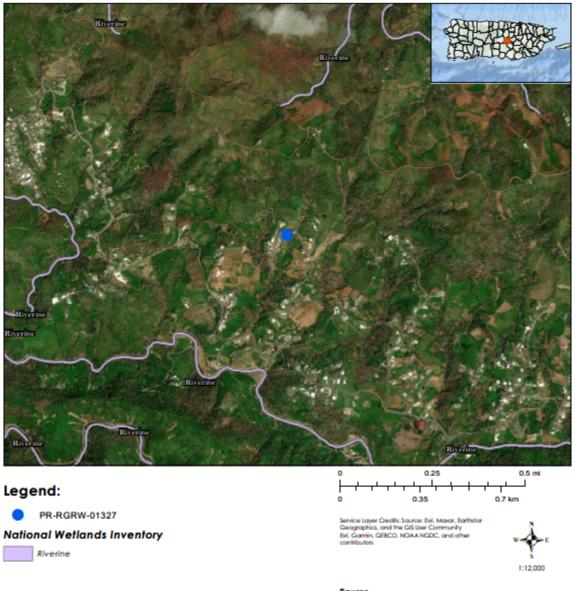




Wetlands

Puerto Rico Department of Housing ReGrow

Miguel Marrero Torres/ DBA Finca Sector Los Marrero Carr. 772 Km 7.8 Interior. Bo Canabón, Sect. Los Marrero, Barranquitas, PR 00794 Catastro: 220-035-230-83 /220-035-230-81 Lat:18.237132, Long:-66.347909



U.S. Fish and Widdle Service - National Weatlands Inventory https://www.fws.gov/program/national-wetlands-inventory

Figure 6: PR-RGRW-01327 Wetlands Map



Exhibit B: Information for Planning and Consultation (IPaC)



United States Department of the Interior



FISH AND WILDLIFE SERVICE

Caribbean Ecological Services Field Office Post Office Box 491 Boqueron, PR 00622-0491 Phone: (939) 320-3135 Fax: (787) 851-7440

Email Address: <u>CARIBBEAN ES@FWS.GOV</u>

In Reply Refer To: 10/15/2024 16:42:07 UTC

Project Code: 2024-0047017

Project Name: PR-RGRW-01327 Barranquitas

Subject: List of threatened and endangered species that may occur in your proposed project

location or may be affected by your proposed project

To Whom It May Concern:

THE FOLLOWING SPECIES LIST IS NOT A SECTION 7 CONSULTATION. PLEASE CONTACT OUR OFFICE TO COMPLETE THE CONSULTATION PROCESS

The purpose of the Endangered Species Act (Act) is to provide a means whereby threatened, and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 et seq.), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect those species and/or their designated critical habitat.

Federal agencies are required to "request of the Secretary of Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action". The enclosed species list provides information to assist with the U.S. Fish and Wildlife Service (Service) consultation process under section 7 of the Act. However, **the enclosed species list does not complete the required consultation process.** The species list identifies threatened, endangered, proposed and candidate species, as well as proposed and designated critical habitats, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. A discussion between the Federal agency and the Service should include what types of listed species may occur in the proposed action area and what effect the proposed action may have on those species. This process initiates informal consultation.

Once a species list is obtained for the proposed project, an effect determination for endangered and threatened species should be made. The applicant could make an effect determination by using available keys on IPaC for specific species. For species with no determination keys, the applicant should request concurrence from the Service by sending a project package

to <u>caribbean es@fws.gov</u>. To obtain guidance for completing this process and the minimum requirements for project packages, please visit:

 $\underline{https://www.fws.gov/sites/default/files/documents/consultation-under-section-7-of-the-endangered-species-act-with-the-caribbean-ecological\%20Services-field-office-template-letter.pdf$

When a federal agency, after discussions with the Service, determines that the proposed action is not likely to adversely affect any listed species, or adversely modify any designated critical habitat, and the Service concurs, the informal consultation is complete, and the proposed project moves ahead. If the proposed action is suspected to affect a listed species or modify designated critical habitat, the Federal agency may then prepare a Biological Assessment (B.A.) to assist in its determination of the project's effects on species and their habitat. However, a B.A. is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2) (c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a B.A. where the agency provides the Service with an evaluation on the likely effects of the action to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a B.A. are described at 50 CFR 402.12.

If a federal agency determines, based on its B.A. or biological evaluation, that listed species and/ or designated critical habitat may be affected by the proposed project, the agency is required to further consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species, and proposed critical habitat be addressed within the consultation process. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

https://www.fws.gov/sites/default/files/documents/endangered-species-consultation-handbook.pdf

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species.

This list is provided pursuant to Section 7 of the Endangered Species Act and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action". Please use this list to determine whether your project requires consultation and to make your effects determination. For more guidance, use the Guideline for Consultation under Section 7 of the Endangered Species Act with the Caribbean Ecological Services Field Office by clicking here.

This species list is provided by:

Project code: 2024-0047017

Caribbean Ecological Services Field Office caribbean es@fws.gov
Post Office Box 491
Boqueron, PR 00622-0491
(786) 244-0081

Attachment(s):

- Official Species List
- USFWS National Wildlife Refuges and Fish Hatcheries
- Bald & Golden Eagles
- Migratory Birds
- Wetlands

OFFICIAL SPECIES LIST

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Caribbean Ecological Services Field Office Post Office Box 491 Boqueron, PR 00622-0491 (939) 320-3135

PROJECT SUMMARY

Project code: 2024-0047017

Project Code: 2024-0047017

Project Name: PR-RGRW-01327 Barranquitas
Project Type: New Constr - Above Ground

Project Description: The proposed activities for PR-RGRW-01327 consist of the purchase and

installation of a 20' x 20' greenhouse, two 1,000-gallon cisterns, an electric generator, agricultural equipment, fence materials, sprinklers, ñame supplies, fertilizer, and a plow. For the proposed activities in the Municipality of Barranquitas the greenhouse and the two cisterns will require ground disturbance. The greenhouse will be anchored to 10' spaced supports buried 2 feet deep, and the proposed installation area will be leveled. The two cisterns will be installed on plastic pallets provided by the applicant. The water needed will be provided by an existing communal water well and transported via above ground pipes. The project area for the proposed greenhouse and cisterns is located at Carr. 772 Km 7.8, Interior, Bo. Canabón, Sector Los Marrero within the Municipality of Barranquitas.

Project Location:

The approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@18.23792375,-66.34781256100206,14z



Counties: Barranquitas County, Puerto Rico

ENDANGERED SPECIES ACT SPECIES

Project code: 2024-0047017

There is a total of 1 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries¹, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

1. <u>NOAA Fisheries</u>, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

Project code: 2024-0047017 10/15/2024 16:42:07 UTC

REPTILES

NAME STATUS

Puerto Rican Boa Chilabothrus inornatus

Endangered

No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/6628

General project design guidelines:

https://ipac.ecosphere.fws.gov/project/5WZ2F5DG2BERXLGSHOQJOS7IGI/documents/generated/7159.pdf

CRITICAL HABITATS

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

YOU ARE STILL REQUIRED TO DETERMINE IF YOUR PROJECT(S) MAY HAVE EFFECTS ON ALL ABOVE LISTED SPECIES.

USFWS NATIONAL WILDLIFE REFUGE LANDS AND FISH HATCHERIES

Any activity proposed on lands managed by the <u>National Wildlife Refuge</u> system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

THERE ARE NO REFUGE LANDS OR FISH HATCHERIES WITHIN YOUR PROJECT AREA.

BALD & GOLDEN EAGLES

Bald and golden eagles are protected under the Bald and Golden Eagle Protection Act¹ and the Migratory Bird Treaty Act².

Any person or organization who plans or conducts activities that may result in impacts to bald or golden eagles, or their habitats³, should follow appropriate regulations and consider implementing appropriate conservation measures, as described in the links below. Specifically, please review the "Supplemental Information on Migratory Birds and Eagles".

- 1. The Bald and Golden Eagle Protection Act of 1940.
- 2. The Migratory Birds Treaty Act of 1918.
- 3. 50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)

THERE ARE NO BALD AND GOLDEN EAGLES WITHIN THE VICINITY OF YOUR PROJECT AREA.

MIGRATORY BIRDS

Project code: 2024-0047017

Certain birds are protected under the Migratory Bird Treaty Act¹ and the Bald and Golden Eagle Protection Act².

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats³ should follow appropriate regulations and consider implementing appropriate conservation measures, as described in the links below. Specifically, please review the "Supplemental Information on Migratory Birds and Eagles".

- 1. The Migratory Birds Treaty Act of 1918.
- 2. The Bald and Golden Eagle Protection Act of 1940.
- 3. 50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)

THERE ARE NO FWS MIGRATORY BIRDS OF CONCERN WITHIN THE VICINITY OF YOUR PROJECT AREA.

WETLANDS

Impacts to <u>NWI wetlands</u> and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local <u>U.S. Army Corps of</u> Engineers District.

Please note that the NWI data being shown may be out of date. We are currently working to update our NWI data set. We recommend you verify these results with a site visit to determine the actual extent of wetlands on site.

THERE ARE NO WETLANDS WITHIN YOUR PROJECT AREA.

Project code: 2024-0047017 10/15/2024 16:42:07 UTC

IPAC USER CONTACT INFORMATION

Agency: Private Entity

Name: Patricia Carmenatty

Address: Perseo St. 554 Cond. Iberia Suite J-3

City: San Juan

State: PR Zip: 00920

Email patricia.carmenatty@byaea.com

Phone: 7877830290



United States Department of the Interior



FISH AND WILDLIFE SERVICE

Caribbean Ecological Services Field Office Post Office Box 491 Boqueron, PR 00622-0491

Phone: (939) 320-3135 Fax: (787) 851-7440 Email Address: <u>CARIBBEAN ES@FWS.GOV</u>

In Reply Refer To: 10/15/2024 16:49:51 UTC

Project code: 2024-0047017

Project Name: PR-RGRW-01327 Barranquitas

Subject: Consistency letter for the project named 'PR-RGRW-01327 Barranquitas' for specified

threatened and endangered species, that may occur in your proposed project location, pursuant to the IPaC determination key titled Caribbean Determination Key (DKey).

Dear Applicant:

Thank you for using the assisted evaluation keys in IPaC. This letter is provided pursuant to the Service's authority under the Endangered Species Act of 1973, as amended (ESA) (87 Stat. 884; 16 U.S.C. 1531et seq.). On October 15, 2024, Patricia Carmenatty used the Caribbean DKey; dated April 03, 2024, in the U.S. Fish and Wildlife Service's online IPaC application to evaluate potential impacts to federally listed species, from a project named 'PR-RGRW-01327 Barranquitas'. The project is located in Barranquitas County, Puerto Rico (shown below).

The approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@18.23792375,-66.34781256100206,14z



The following description was provided for the project 'PR-RGRW-01327 Barranguitas':

The proposed activities for PR-RGRW-01327 consist of the purchase and installation of a 20' x 20' greenhouse, two 1,000-gallon cisterns, an electric generator, agricultural equipment, fence materials, sprinklers, ñame supplies, fertilizer, and a plow. For the proposed activities in the Municipality of Barranquitas the greenhouse and the two cisterns will require ground disturbance. The greenhouse will be anchored to 10' spaced supports buried 2 feet deep, and the proposed installation area will be leveled. The two cisterns will be installed on plastic pallets provided by the applicant. The water needed will be provided by an existing communal water well and transported via above ground pipes. The project area for the proposed greenhouse and cisterns is located at Carr. 772 Km 7.8, Interior, Bo. Canabón, Sector Los Marrero within the Municipality of Barranquitas.

Based on your answers and the assistance of the Service's Caribbean DKey, you made the following effect determination(s) for the proposed Action:

SpeciesListing StatusDeterminationPuerto Rican Boa (Chilabothrus inornatus)EndangeredNLAA

<u>Consultation with the Service is not complete.</u> The above effect determination(s) becomes applicable when the lead federal action agency or designated non-federal representative submits them as a request to the Service to rely on the Caribbean DKey in order to satisfy the agency's consultation requirements for this project.

Please provide this consistency letter to the lead federal action agency or its designated non-federal representative with a request for its review, and as the agency deems appropriate, to submit for concurrence verification through the IPaC system. The lead federal action agency or designated non-federal representative should log into IPaC using their agency email account and click "Search by record locator." They will need to enter the record locator **161-151082244**

Note: Projects located within the range of the Puerto Rican boa or the Virgin Islands tree boa might encounter these species during project activities. **This letter does not provide take to handle or move these species.** If relocation of the species is needed, please contact either the Puerto Rico Department of Natural Resources (DNER) at 787-724-5700, 787-230-5550, or 787-771-1124 for projects in Puerto Rico, or the Virgin Islands Department of Planning and Natural Resources, Division of Fish and Wildlife (DFW) at 340-775-6762 for projects in the Virgin Islands. Otherwise, contact the Caribbean Ecological Services Field Office (caribbean_es@fws.gov) to determine whether the consultation needs to be reinitiated.

If the proposed project is located within species range where a DKey has not been developed for those species, please follow the established guidance for initiating section 7 consultation Caribbean Ecological Services Field Office.

We appreciate your interest in protecting endangered species and their habitats. It is the Service's mission to work with others to conserve, protect, and enhance fish, wildlife, and plants and their

habitats for the continuing benefit of our people. If you have any questions or require additional information, please contact our office at Caribbean_es@fws.gov.

Action Description

You provided to IPaC the following name and description for the subject Action.

1. Name

PR-RGRW-01327 Barranquitas

2. Description

The following description was provided for the project 'PR-RGRW-01327 Barranquitas':

The proposed activities for PR-RGRW-01327 consist of the purchase and installation of a 20' x 20' greenhouse, two 1,000-gallon cisterns, an electric generator, agricultural equipment, fence materials, sprinklers, ñame supplies, fertilizer, and a plow. For the proposed activities in the Municipality of Barranquitas the greenhouse and the two cisterns will require ground disturbance. The greenhouse will be anchored to 10' spaced supports buried 2 feet deep, and the proposed installation area will be leveled. The two cisterns will be installed on plastic pallets provided by the applicant. The water needed will be provided by an existing communal water well and transported via above ground pipes. The project area for the proposed greenhouse and cisterns is located at Carr. 772 Km 7.8, Interior, Bo. Canabón, Sector Los Marrero within the Municipality of Barranquitas.

The approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@18.23792375,-66.34781256100206,14z



Project code: 2024-0047017

QUALIFICATION INTERVIEW

1. Is the proposed project an EPA Multi-Sector General Permit (MSGP) renewal for an existing project? (MSGP Fact Sheet)

No

2. Is the proposed project within an urban developed area? (i.e., cities, downtowns, shopping malls etc.)

Note: Urban and developed areas has one or more of the following characteristics: Presence of existing buildings, residential areas, and commercial establishments. Well-established infrastructure including roads, utilities, and urban facilities. High population density. Established neighborhoods and urban amenities ("urbanizaciones"). Developed landscape with paved surfaces, parking lots, and industrial areas. Signs of human activity and urbanization, such as shopping centers and recreational facilities. Location within the boundaries of a city or town ("casco urbano"). High concentration of built-up structures and limited open spaces. Aerial imagery might be requested to the applicant.

No

3. Does the proposed project consist of rehabilitation or demolition of existing single-family homes and buildings?

No

4. Does the proposed project consist of improvements to existing facilities?

Note: Examples of facilities are occupied single family homes, and buildings; existing recreational facilities, including the installation of roofs to existing basketball courts, etc.

No

5. Does the proposed project consist of repavement or repair of existing roads and installing transit signage or guardrails?

No

6. Does the proposed project consist of the construction of gutters and/or sidewalks along existing roads, and developments?

No

7. Does the proposed project consist of replacement or repair of existing bridges which include cutting vegetation or earth movement?

No

8. Does the proposed project consist of activities within existing Right of Ways (ROWs) along roads which include cutting vegetation or earth movement?

No

9. Is the proposed project located within a rural area covered by grassland (pasture lands "pastos")?

No

10. Is the proposed project adjacent or within a forested area?

Note: Examples of immediately adjacent to forested areas are rock walls and haystack hills ("mogotes"), wet montane forest, lowland wet forest, remnant coastal, mangrove forest, damp and dry limestone karst forests, pastureland with patches of exotic trees.

No

11. Is the proposed project an existing facility or the expansion of an existing facility within the footprint of the already developed area?

No

12. Is the proposed project a new facility which would require earth moving, vegetation clearing, or debris removal using heavy machinery, the use of staging areas, construction of temporary access roads?

Yes

13. [Hidden Semantic] Does the proposed project intersect the Puerto Rican boa area of influence?

Automatically answered

Yes

14. Will the proposed project implement the U.S. Fish and Wildlife <u>Puerto Rican boa Conservation Measures?</u>

Yes

15. Are you the Federal agency or designated non-federal representative for the proposed action?

No

10/15/2024 16:49:51 UTC

10/15/2024 16:49:51 UTC

IPAC USER CONTACT INFORMATION

Agency: Private Entity

Patricia Carmenatty Name:

Address: Perseo St. 554 Cond. Iberia Suite J-3

City: San Juan

State: PR Zip: 00920

Email patricia.carmenatty@byaea.com

Phone: 7877830290



Exhibit C: Field Visit Photos





Photo #: 1

Date: October 16, 2023

Description (include direction): General area where the greenhouse will be installed, looking east.



Photo #: 2

Date: October 16, 2023

Description (include direction): General area where the greenhouse be installed, looking west.





Photo #: 3

Date: October 16, 2023

Description (include direction): General area where the Cistern 1 will be installed, looking southeast.



Photo #: 4

Date: October 16, 2023

Description (include direction): General area where the Cistern 2 be installed, looking northwest.



Exhibit D: Conservation Measures



U.S. FISH AND WILDLIFE SERVICE CARIBBEAN ECOLOGICAL SERVICES FIELD OFFICE

Conservation Measures for the Puerto Rican boa (*Chilabothrus inornatus*)

Section 7 (a)(1) of the Endangered Species Act (ESA) charges Federal agencies to aid in the conservation of listed species, and section 7 (a)(2) requires the agencies, through consultation with the U.S. Fish and Wildlife Service (Service), to ensure their activities are not likely to jeopardize the continued existence of listed species or adversely modify designated critical habitats. Section 7 applies to the management of Federal lands as well as Federal actions that may affect federally listed species, such as Federal approval of private activities through the issuance of Federal funding, permits, licenses, or other actions. Any person that injures, captures, or kills a Puerto Rico boa is subject to penalties under the ESA. If Federal funds or permits are needed, the funding or permitting agency should initiate Section 7 consultation with the Service. To initiate a consultation under the Section 7 of the ESA, you must submit a project package with the established minimum requirements. These conservation measures should be incorporated into the project plans to minimize possible impacts to the species.

The endangered Puerto Rican (PR) boa (*Chilabothrus inornatus*, formerly *Epicrates inornatus*) is the largest endemic snake species that inhabits Puerto Rico. The PR boa is non-venomous and does not pose any life threatening danger to humans, but some individuals may try to bite if disturbed or during capture or handling. Its body color ranges from tan to dark brown with irregular diffuse marking on the dorsum, but some individuals lack marking and are uniformly dark. Juveniles may have a reddish color with more pronounced markings. In general, as they mature, their body color tends to darken.



The PR boa was federally listed in 1970. Currently, the species has an island-wide distribution and occurs in a wide variety of habitat types, ranging from wet montane to subtropical dry forest and can be found from mature forest to areas with different degrees of human disturbance such as roadsides or houses, especially if near their habitat in rural areas. The PR boa is considered mostly nocturnal, remaining less active, concealed or basking under the sun during the day.

The Service has developed the following conservation measures with the purpose of assisting others to avoid or minimize adverse effects to the PR boa and its habitat. These recommendations may be incorporated into new project plans and under certain circumstances into existing projects. Depending on the project, additional conservation measures can be implemented besides the ones presented in this document.

Conservation Measures:

- 1. Inform all project personnel about the potential presence of the PR boa in areas where the proposed work will be conducted. A pre-construction meeting should be conducted to inform all project personnel about the need to avoid harming the species as well as penalties for harassing or harming PR boas. An educational poster or sign with photo or illustration of the species should be displayed at the project site.
- Prior to any construction activity, including removal of vegetation and earth movements, the boundaries of the project and areas to be excluded and protected should be clearly marked in the project plan and in the field in order to avoid further habitat degradation into forested and conservation areas.
- 3. Once areas are clearly marked, and prior to the use of heavy machinery and any construction activity (including removal of vegetation and earth movement), a biologist or project personnel with experience on this species should survey the areas to be cleared to verify the presence of any PR boa within the work area.
- 4. If a PR boa is found within any of the working or construction areas, activities should stop at that area and information recorded (see #5). **Do not capture the boa.** If boas need to be moved out of harm's way, designated personnel shall immediately contact the Puerto Rico Department of Natural and Environmental Resources (PRDNER) Rangers for safe capture and relocation of the animal (PRDNER phone #s: (787) 724-5700, (787) 230-5550, (787) 771-1124). **If immediate relocation is not an option, project-related activities at that area must stop until the boa moves out of harm's way on its own**. Activities at other work sites, where no boas have been found after surveying the area, may continue.
- 5. For all boa sightings (dead or alive), record the time and date of the sighting and the specific location where it was found. PR boa data should also include a photo of the animal (dead or alive), site GPS coordinates, the time and date, and comments on how the animal was detected and its behavior.

- 6. If a PR boa is captured by PRDNER personnel, record the name of that person and information on where the PR boa will be taken. This information should be reported to the Service.
- 7. Measures should be taken to avoid and minimize PR boa casualties by heavy machinery or motor vehicles being used on site. Any heavy machinery left on site (staging) or near potential PR boa habitat (within 50 meters of potential boa habitat), needs to be thoroughly inspected each morning before work starts to ensure that no boas have sheltered within engine compartments or other areas of the equipment. If PR boas are found within vehicles or equipment, do not capture the animal, and let it move on its own or call PRDNER Rangers for safe capture and relocation of the animal (see #4). If not possible, the animal should be left alone until it leaves the vehicle on its own.
- 8. PR boas may seek shelter in debris piles. Measures should be taken to avoid and minimize boa casualties associated with sheltering in debris piles as a result of project activities. Debris piles should be placed far away from forested areas. Prior to moving, disposing or shredding, debris piles should be carefully inspected for the presence of boas. If debris piles will be left on site, we recommend they be placed in areas that will not be disturbed in the future.
- 9. If a dead PR boa is found, immediately cease all work in that area and record the information accordingly (see #5). If the PR boa was accidentally killed as part of the project actions, please include information on what conservation measures had been implemented and what actions will be taken to avoid further killings. A dead boa report should be sent by email (see contacts below) to the Service within 48 hours of the event.
- 10. Projects must comply with all state laws and regulations. Please contact the PRDNER for further guidance.

If you have any questions regarding the above conservation measures, please contact the Service:

- José Cruz-Burgos, Endangered Species Program Coordinator
 - o Email: jose_cruz-burgos@fws.gov
 - o Office phone (305) 304-1386
- Jan Zegarra, Fish and Wildlife Biologist
 - o Email: jan_zegarra@fws.gov
 - o Office phone (786) 933-1451

Radon Attachments



August 20, 2024

Mrs. Carmen R. Guerrero Pérez Caribbean Environmental Protection Division City View Plaza II - Suite 7000 #48 Rd. 165 km 1.2 Guavnabo, PR 00968-8069

Vía email: guerrero.carmen@epa.gov

RE: Request for Information regarding available data on radon testing and levels within Puerto Rico

The Puerlo Rico Department of Housing (PRDOH) kindly requests your assistance in gathering data, information, or reports related to radon testing in Puerlo Rico, as this information is crucial for our compliance with the U.S. Department of Housing and Urban Development (HUD) Community Planning and Development (CPD) Notice CDP-23-103.

Community Planning and Development (CPD) Notice CDP-23-103. This Notice emphasizes the importance of radon testing and milligation in ensuring safe living environments, particularly in HUD-assited properties. PRDOH, as the grantee of the Community Development Block Grant for Disaster Recovery and Miligation (CDBG-DR/MII), is responsible for ensuring compliance with environmental requirements under CDBG-DR/MII programs. To fulfill our obligations under this Notice, we must compile comprehensive and up-to-date information on radon levels, testing practices, and any miltigation efforts within the Islands of Puerto Rico. Rico.

Specifically, we are seeking for possible availability of the following information

 $\underline{Radon\ testing\ data} - Results\ from\ radon\ testing\ conducted\ within\ your\ agency's\ purview,\ including\ details\ on\ location,\ testing\ methods,\ and\ recorded\ radon\ levels.$

Barbosa Ave. #606 , Building Juan C. Cordero Davila, Rio Piedras, PR 00918 | PO Box 21365 San Juan, PR 00928-1365 Tel. (787) 274-2527 | www.nivenda.pr.gov



August 20, 2024

Dr. Silvina Cancelos College of Engineering
University of Puerto Rico – Mayagüez Campus 259 Norte Blvd. Alfonso Valdés Cobián Mayagüez, Puerto Rico

Vía email: silvina.cancelos@upr.edu

RE: Request for Information regarding available data on radon testing and levels within Puerto Rico

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Radon testing data – Results from radon testing conducted within your agency's purview, including details on location, testing methods, and recorded radon levels.

Barbosa Ave. #606 , Building Juan C. Cordeto Dávila, Río Piedras, PR 00918 | PO Box 21365 San Juan, PR 00928-1365 Tel. (767) 274-2527 | https://doi.org/10.1002/j.com/noenda.pr.g.gg/

CDBG-DR/MIT Program
Request for Information in relation with HUD CPD-23-103 for Puerto Rico
Page 2 / 2

Reports and assessments – Any reports, studies, or assessments your agency has produced or commissioned that address radon testing or miligation.

<u>Policies and quidelines</u> – Information or any policy, guideline, or protocol your agency follows concerning radon testing, exposure limits, or mitigation.

<u>Historical data</u> – if available, historical data or trends in radon levels within the regions you monitor that may impact HUD-assisted housing.

This information is vital to ensure that our radon management strategies are practical and compliant with federal requirements, if some of this information may be sensitive or confidential, we are prepared to discuss any necessary agreements or protocols for sharing this data securely.

Please let us know if you require additional details or have any questions regarding this request. We would greatly appreciate your response by September 15, 2024, so we can incorporate this data into our ongoing compliance efforts.

Thank you in advance for your cooperation and support. We look forward to working together on this critical initiative.

llmn (rez Rodfiguez, Esq.

CDBG-DR/MIT Program
Request for Information in relation with HUD CPD-23-103 for Puerto Rico
Page 2 / 2

Reports and assessments – Any reports, studies, or assessments your agency has produced or commissioned that address radon testing or mitigation.

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Please let us know if you require additional details or have any questions regarding this request. We would greatly appreciate your response by September 15, 2024, so we can incorporate this data into our ongoing compliance efforts.

Thank you in advance for your cooperation and support. We look forward to working together on this critical initiative.

Sincerely.

My Rodríguez, Esq.

Dr. Carlos Marín, carlos,marin3@upr.edu



August 20, 2024

Dr. Jessica Irizarry Director Office of Island Affairs U.S. Centers for Disease Control and Prevention 1324 Cll Canada, San Juan, 00920 Guaynabo, PR 00968-8069

Via email: OIA@cdc.gov

RE: Request for Information regarding available data on radon testing and levels within Puerto Rico

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Specifically, we are seeking for possible availability of the following

 $\frac{Radon\ testing\ data}{Results} - Results\ from\ radon\ testing\ conducted\ within\ your\ agency's\ purview,\ including\ details\ on\ location,\ testing\ methods,\ and\ recorded\ radon\ levels.$

Barbosa Ave. #606 , Building Juan C. Cordero Dávila, Río Piedras, PR 00918 | PO Box 21365 San Juan, PR 00928-1365 Tel. (787) 274-2527 | www.vijenda.pr.gov



August 20, 2024

Mrs. Anais Rodriguez Secretary
Puerto Rico Department of Natural Resources Carretera 8838, km, 6.3, Sector El Cinco, Río Piedras San Juan, PR 00926

Via email: anais.rodriquez@drna.pr.gov

RE: Request for Information regarding available data on radon testing

The Puerto Rico Department of Housing (PRDOH) kindly requests your assistance in gathering data, information, or reports related to radon testing in Puerto Rico, as this information is crucial for our compliance with the U.S. Department of Housing and Urban Development (HUD) Community Planning and Development (CPD) Notice CDP-23-103.

This Notice emphasizes the importance of radon testling and miligation in ensuring safe living environments, particularly in HUD-assisted properties. PRDOH, as the grantee of the Community Development Block Grant for Disaster Recovery and Mitigation (CDBG-DR/MIT), is responsible for ensuring compliance with environmental requirements under CDBG-DR/MIT programs. To fulfill our obligations under this Notice, we must compile comprehensive and up-to-date information on radon levels. It setting practices, and any militardium efforts within the intensic of Puerto testing practices, and any mitigation efforts within the islands of Puerto

Specifically, we are seeking for possible availability of the following

Radon testing data – Results from radon testing conducted within your agency's purview, including details on location, testing methods, and recorded radon levels.

Reports and assessments – Any reports, studies, or assessments your agency has produced or commissioned that address radon testing or mitigation.

Barbosa Ave. #606, Building Juan C. Cordero Dávila, Río Piedras, PR 00918 | PO Box 21365 San Juan, PR 00928-1365 Tel. [787] 274-2527 | www.vivienda.pr.gov

CDBG-DR/MIT Program
Request for Information in relation with HUD CPD-23-103 for Puerto Ric
Page 2 /

agency has produced or commissioned that address radon testing or mitigation.

<u>Policies and guidelines</u> – Information or any policy, guideline, or protocol your agency follows concerning radon testing, exposure limits, or mitigation.

<u>Historical data</u> – if available, historical data or trends in radon levels within the regions you monitor that may impact HUD-assisted housing.

This information is vital to ensure that our radon management strategies are practical and compliant with federal requirements. If some of this information may be sensitive or confidential, we are prepared to discuss any necessary agreements or protocols for sharing this data securely.

Please let us know if you require additional details or have any questions regarding this request. We would greatly appreciate your response by September 15, 2024, so we can incorporate this data into our ongoing compliance efforts.

Thank you in advance for your cooperation and support. We look forward to working together on this critical initiative.

D. Rodríguez, Esq

CD8G-DR/MIT Pro Request for Information in relation with HUD CPD-23-103 for Puerli

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William O. Rodríguez Rodríguez, Esq.

Secretary

Mr. Luis Márquez, <u>secretariaaire@drna.pr.gov</u> Eng. Amarilys Rosario, <u>aire@drna.pr.gov</u> Mrs. Elid Ortega, <u>eortega@drna.pr.gov</u>



August 20, 2024

Dr. Carlos R. Mellado López Secretary Puerto Rico Department of Health PO Box 70184 San Juan, PR 00936-8184

Vía email: drcarlos.mellado@salud.pr.gov

RE: Request for Information regarding available data on radon testing nd levels within Puerto Rico

The Puerto Rico Department of Housing (PRDOH) kindly requests your assistance in gathering data, information, or reports related to radon testing in Puerto Rico, as this information is crucial for our compliance with the U.S. Department of Housing and Urban Development (HUD) Community Planning and Development (CPD) Notice CDP-23-103.

This Notice emphasizes the importance of radon testing and milligation in ensuring safe living environments, particularly in HUD-assisted properties. PRDOH, as the grantee of the Community Development Block Grant for Disaster Recovery and Miligation (CDBG-DR/MIT). Is responsible for ensuring compliance with environmental requirements under CDBG-DR/MIT programs. To fulfill our obligations under this Notice, we must compile comprehensive and up-to-date information on radon levels, testing practices, and any mitigation efforts within the islands of Puerto

Specifically, we are seeking for possible availability of the following information

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Reports and assessments – Any reports, studies, or assessments your agency has produced or commissioned that address radon testing or

Barbosa Ave. #606, Building Juan C. Cordero Dávila, Río Piedras, PR 00918 | PO Box 21365 San Juan, PR 00928-1365 Tel. (787) 274-2527 | https://doi.org/10.1007/j.com/noses/21365 San Juan, PR 00928-1365



August 20, 2024

Mrs. Holly Weyers Regional Director, Southeast – Puerto Rico US Geological Survey 3916 Sunset Ridge Road Raleigh, NC 27607

Vía email: hsweyers@usgs.gov

RE: Request for Information regarding available data on radon testing and levels within Puerto Rico

The Puerto Rico Department of Housing (PRDOH) kindly requests your assistance in gathering data, information, or reports related to radon testing in Puerto Rico, as this information is crucial for our compliance with the U.S. Department of Housing and Urban Development (HUD) Community Planning and Development (CPD) Notice CDP-23-103.

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CDBG-DR/MIT Program
Request for Information in relation with HUD CPD-23-103 for Puerto Roo

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Thank you in advance for your cooperation and support. We look forward to working together on this critical initiative.

Sincerely.

Ladriguez Rodriguez, Esq.

Mr. Raúl Hernández Doble, rhernandez2@salud.pr.gov

CDBG-DR/MIT Program
Request for Information in relation with HUD CPD-23-103 for Puerto Rico
Page 2 / 2

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Thank you in advance for your cooperation and support. We look forward to working together on this critical initiative

Sincerely

Ariauez Rodriguez, Esq.

Mr. R. Randall Schumann, rschumann@usgs.gov

From: Charp, Paul (CDC/NCEH/DEHSP) <pac4@cdc.gov>

Sent: Tuesday, September 3, 2024 6:36 AM

To: Miranda, Sandra (CDC/PHIC/DPS); Irizarry, Jessica (CDC/PHIC/DPS); Rzeszotarski, Peter

(CDC/NCEH/DEHSP); Vinson, D. Aaron (CDC/NCEH/DEHSP)

Cc: Kostak, Liana (CDC/PHIC/DPS); Vazquez, Germaine (CDC/NCEH/DEHSP)

Subject: RE; REHi: Puerto Rico Request for Information- Randon testing and levels

Good morning, Sandra and others,

In response to the request from Mr. William Rodriguez of the Department of Housing, Government of Puerto Rico, I have reviewed all the available data within the CDC National Environmental Public Health Tracking Network system for data related to radon in Puerto Rico. In addition to the tracking data available on the internet, I also reached out to Mr. Aaron Vinson of the NCEH Tracking Branch.

I was not able to find any data in the CDC systems and this was confirmed by Mr. Vinson. We also reached out the US Environmental Protection Agency who indicated they had no radon data in their systems. Please relay this information to Mr. Rodríguez in your response to his requests

If you have any additional questions, please contact me.

Thank you and best regards,

Paul A. Charp, Ph.D., Fellow, HPS
Senior Health Physicist
Emerging Environmental Hazards and Health Effects Branch (EEHHEB)
Division of Environmental Health Science and Practice (DEHSP)
National Center for Environmental Health (NCEH)
Centers for Disease Control and Prevention (CDC)
pcharp@cdc.gov
770-488-0723 office
404.388.0614 Cell



From: Schumann, R. Randall <rschumann@usgs.gov>

Sent: Wednesday, August 21, 2024 4:39 PM

To: Melanie Medina Smaine <mmedina@vivienda.pr.gov>; Weyers, Holly S <hsweyers@usgs.gov> Cc: Elaine Dume Mejia <Edume@vivienda.pr.gov>; Luz S Colon Ortiz <Lcolon@vivienda.pr.gov>; Aldo A.

Rivera-Vazquez <aarivera@vivienda.pr.gov>

Subject: RE: Request for Information- Radon testing and levels

Dear Ms. Medina Smaine,

In the early 1990s the U.S. Geological Survey (USGS) conducted geologic assessments of radon potential for all 50 states and the territories of Guam and Puerto Rico, in collaboration with the U.S. EPA. I conducted the geologic radon potential assessment for Puerto Rico. The PDF file of the report is too large to attach to this message but it can be obtained at https://pubs.usgs.gov/of/1993/0292k/report.pdf. The USGS did not conduct indoor radon testing and we did not conduct field studies associated with this assessment; it was based on existing data. Mr. David Saldana of the Puerto Rico Department of Health kindly provided us with data for 610 homes that were tested for indoor radon by his agency between 1993 and 1995, which are summarized in the report. I am not aware of any other radon-related geologic studies conducted in the Commonwealth of Puerto Rico by the U.S. Geological Survey.

Best regards,

R. Randall Schumann
Scientist Emeritus
U.S. Geological Survey
Geociences and Environmental Change Science Center
Denver, Colorado, USA
rschumann@usgs.gov
https://www.usgs.gov/staff-profiles/r-randall-schumann

From: Raul Hernandez Doble <rhernandez2@salud.pr.gov>

Sent: Wednesday, August 21, 2024 2:13:31 PM

To: Melanie Medina Smaine <mmedina@vivienda.pr.gov>; Dr. Carlos Mellado <drcarlos.mellado@salud.pr.gov> Cc: Elaine Dume Mejia <Edume@vivienda.pr.gov>; Luz S Colon Ortiz <Lcolon@vivienda.pr.gov>; Aldo A. Rivera-Vazquez <aarivera@vivienda.pr.gov>; Mayra Toro Tirado <mtoro@salud.pr.gov>

Subject: RE: [EXTERNAL] Request for Information- Randon testing and levels

Good afternoon, Ms. Medina

I regret to inform that we do not have any recent information on radon testing, since we do not have a certified radiation laboratory certified for radon testing. There are companies that sell test kits available online that can be done and mailed to a testing laboratory. There are also lists of radon contractors and these companies that process radon testing cartridges with instructions, on the Environmental Protection Agency Indoor air Quality web page. The last radon study in Puerto Rico done by the PR Department of Health was done on the year 1993.

Raul Hernandez Doble
Director, Seccion Salud Radiologica
Division de Salud Ambiental
Secretaria Auxiliar para la Vigilancia y la Proteccion de la Salud Publica
rhernandez2@salud.gov.pr

Phone: (787)765-2929 ext. 3210

From: Reyes, Brenda < Reyes. Brenda@epa.gov>
Sent: Wednesday, September 18, 2024 11:48 AM

To: Cesar O Rodriguez Santos <cesarrodriguez@drna.pr.gov>; Maritza Rosa Olivares <maritzarosaolivares@drna.pr.gov>;

Silvina Cancelos Mancini <silvina.cancelos@upr.edu>; Melanie Medina Smaine <mmedina@vivienda.pr.gov>

Cc: Elaine Dume Mejia <Edume@vivienda.pr.gov>; Luz S Colon Ortiz <Lcolon@vivienda.pr.gov>; Aldo A. Rivera-Vazquez

<aarivera@vivienda.pr.gov>; Povetko, Oleg (he/him/his) <Povetko.Oleg@epa.gov>

Subject: RE: Request for Information- Randon testing and levels

Saludos.

La EPA esta trabajando una respuesta a su petición. Se sometió borrador a la directora y el subdirector para su aprobación y firma.

Brenda Reyes Tomassini
Public Affairs
U.S. EPA
Region 2
Caribbean Environmental Protection Division
(787) 977-5869/(787) 977-5865
Mobile: 202-834-1290

From: Silvina Cancelos Mancini < silvina.cancelos@upr.edu>

Sent: Friday, September 6, 2024 15:04

To: Melanie Medina Smaine < mmedina@vivienda.pr.gov >

Cc: Elaine Dume Mejia < Edume@vivienda.pr.gov >; Luz S Colon Ortiz < Lcolon@vivienda.pr.gov >; Aldo A. Rivera-Vazquez

<a href="mailto:Aarivera@vivie

<<u>Reyes.Brenda@epa.gov</u>>; Povetko, Oleg <<u>Povetko.Oleg@epa.gov</u>>

Subject: Re: Request for Information- Randon testing and levels

Estimada Melanie Medina

Quería dejarle saber que recibimos su correo el 21 de agosto al igual que el de Maritza Rosa el pasado 4 de septiembre. Ya las personas involucradas de EPA, junto conmigo y el Dr. Marín estamos al tanto del asunto y estamos trabajando para poder enviarles la información.

Atentamente

Silvina Cancelos Professor Associate Director Mechanical Engineering Department University of Puerto Rico - Mayaguez Call BOX 9000 Mayaguez PR 00680 Tel: 787-832-4040 ext 5956 email: silvina.cancelos@upr.edu





September 23, 2024

VIA EMAIL

William O. Rodríguez Rodríguez, Esq. Secretary
Puerto Rico Department of Housing
Barbosa Ave. 606 Building Juan C. Cordero
San Juan, PR 00917
Email: W.Rodriguez@vivienda.pr.gov

EPA Response to August 20, 2024 request for information of data on radon testing and levels in Puerto Rico

Dear Honorable Secretary Rodríguez Rodríguez

This communication is in response to your letter of August 20, 2024 addressed to the Puerto Rico Department of Natural and Environmental Resources (DNER) and referred to the U.S. Environmental Protection Agency (EPA) regarding available data on radon testing and levels within Puerto Rico

EPA's National Radon Action Plan 2021–2025 sets a goal for the nation to find, fix and prevent high indoor radon levels in 8 million buildings by 2025 and prevent 3,500 lung cancer deaths per year. Under this Plan, leaders from across multiple sectors are working together to plan, guide, and sustain nationwide action to prevent exposure to radon.

Due to the lack of data in Puerto Rico, EPA undertook an investigation in collaboration with the University of Puerto Rico-Mayaguez (UPRM) Campus, Departments of Civil Engineering and Surveying and Mechanical Engineering, to find out if radon presented a problem in Puerto Rico. Up until 2021, the only data we had for Puerto Rico was a 1993-1995 mail-in radon screening study referred to by the U.S. Geological Survey report (USGS, 1995) in which the USGS concluded that several areas of Puerto Rico have the geologic potential to generate indoor radon levels exceeding the EPA Action Level of 4 pC/L (piccouries per liter), perhaps locally reaching very high levels above 50 pC/L, if a house construction and

ventilation allow for soil-gas radon to enter and concentrate within the structure. ¹ According to the USGS report, most of these areas are located in the northwest part of the island. Please note that the actual 1993-1995 study documentation is not available to the EPA.

Typical radon testing technology used in mainland United States (charcoal canisters or electric-powered devices) are impractical in Puerto Rico because of high humidity and power outages. The recovery and rebuilding of communities following the aftermath of 2017 Hurricanes Irms and Maria presented an opportunity to develop radon prevention and mitigation strategies in 2019. Initially, EPA sampled indoor radon air in over 170 single-family residences in the municipalities of San Sebastian, Lares, Ciales, Arecibo, Morovis, Camuy, and Hatillo and later expanded the project to other municipalities such as Rincon, Aguada, Aguadalli, stabela, Questradillas, Barecloneta and Vega Baja. The quality assurance protocols were anchored in American National Standards institute/American Association of Radon Scientists and Technologists (ANSI/AARS) standards of practice (ANSI/AARS) 1939. The sampling was designed in two stages: scoping and confirmatory sampling. The scoping sampling was conducted using Corentium Home (CH) electronic monitors and E-Perm ystems. Locations measuring above the EPA Action Level of 4 pCI/L with CH were measured at the second stage of the sampling using RAD7 and Corentium Pro Continuous Radon Monitors (CRMs). Nationally certified and on sampling professionals led by one such professional form the UPRM conducted confirmatory sampling in the second stage. Also, during the study, the nationally certified radon mitigation professionals inspected several homes with elevated indoor radon levels. Typical radon testing technology used in mainland United States (charcoal canisters or electric-powered levels.

Mapping radon in Puerto Rico proved to be a complicated endeavor given the COVID-19 pandemic in wapping fault in Puter to Nico proved to de Econipactace encessor given the COVID-19 panietin. In 2020. EPA and UPM continue to work on the project, however, results have not been finalized, and no scientific report has been published yet. Unfortunately, EPA cannot share preliminary data at this time because it contains privileged information. Nevertheless, preliminary data from the study does show homes with levels over 4 pCi/L (EPA Action Level) that might need mitigation to protect the health of their inhabitants.

Although many states have developed laws and regulations governing radon disclosure, certification, and mitigation, Puerto Rico lacks legislation or mandatory radon testing provisions for new construction, remodeling, selling or buying homes. Given this loophole and aiming to answer your request, the EPA can provide information on Best Management Practices for sampling indoor radon in Puerto Rico.

CITY VIEW PLAZA II BUILDING, 7TH FLOOR ROUTE 165 GUAYNABO, PR 00968

If you have any questions or need any additional information, please contact me at 787-977-5865 or guerrero.carmen@epa.gov or have your staff contact Reyes, Brenda at reyes.brenda@epa.gov or (787) 977-5869.

Sincerely,

CARMEN **GUERRERO** PEREZ

Digitally signed by CARMEN GUERRERO PEREZ Date: 2024.09.23 09:41:39 -04'00'

Carmen R. Guerrero Pérez Director

Roberto Mendez, Esq (Acting Secretary, PR Department of Natural and Env. Resources)

Melany Medina: mmedina@vivienda.pr.gov Elaine Dume Mejia: Edume@vivienda.pr.gov Luz S Colon Ortiz: Lcolon@vivienda.pr.gov
Aldo A. Rivera-Vazquez: aarivera@vivienda.pr.gov Cesar O. Rodriguez: cesarrodriguez@drna.pr.gov Marita Rosa Olivares: maritzarosaolivares@drna.pr.gov

¹ Reference: USGS. Geologic Radon Potential of Guam and Puerto Rico, Report 93-292-K, Washington, DC: USGS. Retrieved 9/11/2024, from https://pubs.usgs.gov/of/1993/0292k/report.pdf.



Figure 9.1

Miguel Marrero Torres/ DBA Finca Sector Los Marrero

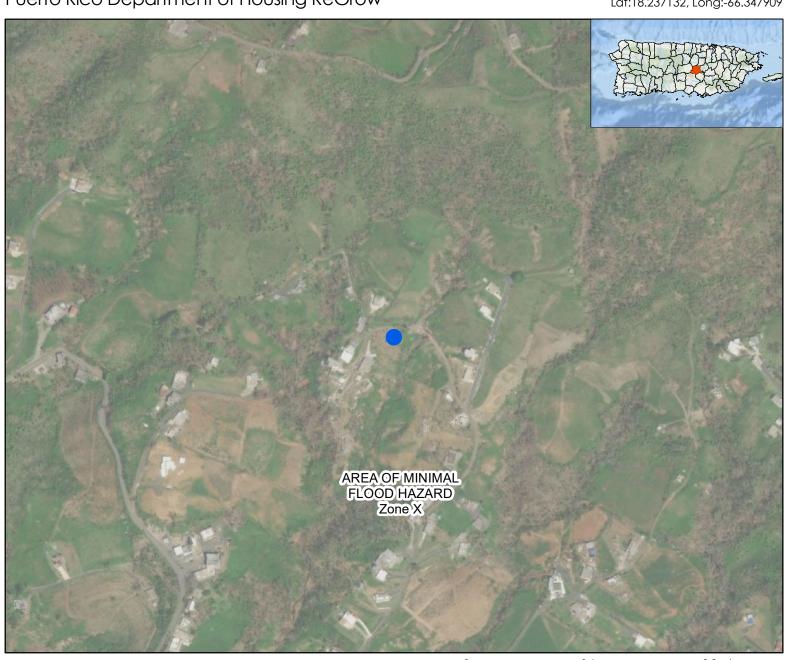
Carr. 772 Km 7.8 Interior, Bo Canabón, Sect. Los Marrero,

Barranquitas, PR 00794 Catastro: 220-035-230-83 /220-035-230-81

Catastro: 220-035-230-83 /220-035-230-81 Lat:18.237132, Long:-66.347909

Advisory Base Flood Elevation Map

Puerto Rico Department of Housing ReGrow



Legend:



PR-RGRW-01327



Area of Minimal Flood Hazard Zone X





Α

0.2% Annual Chance Flood

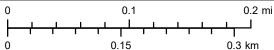


Floodway



Floodway





Service Layer Credits: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community Esri, Garmin, GEBCO, NOAA NGDC, and other contributors and Google Earth



Source

Federal Emergency Management Agency (FEMA), Junta de Planificacion de Puerto Rico (JP), Mapas de Niveles de Inundacion Base Recomendados, https://maps.jp.pr.gov/

Figure 9.2

Advisory Base Flood Elevation Map

Puerto Rico Department of Housing ReGrow

Miguel Marrero Torres/ DBA Finca Sector Los Marrero Carretera 155, KM 23.7 Int, Bo. Saltos, Sector Los Rosados, Orocovis, PR, 00720 Catastro: 245-017-109-16 / 245-007-109-03 Lat:18.214155, Long: -66.399803



Legend:



PR-RGRW-01327



Area of Minimal Flood Hazard

Flood Zone



0.2% Annual Chance Flood



Floodway





Federal Emergency Management Agency (FEMA), Junta de Planificacion de Puerto Rico (JP), Mapas de Niveles de Inundacion Base Recomendados, Area of Minimal Flood Hazard Zone Xhttps://maps.jp.pr.gov/

Esri, Garmin, GEBCO, NOAA NGDC, and other contributors

Service Layer Credits: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

0.2 km





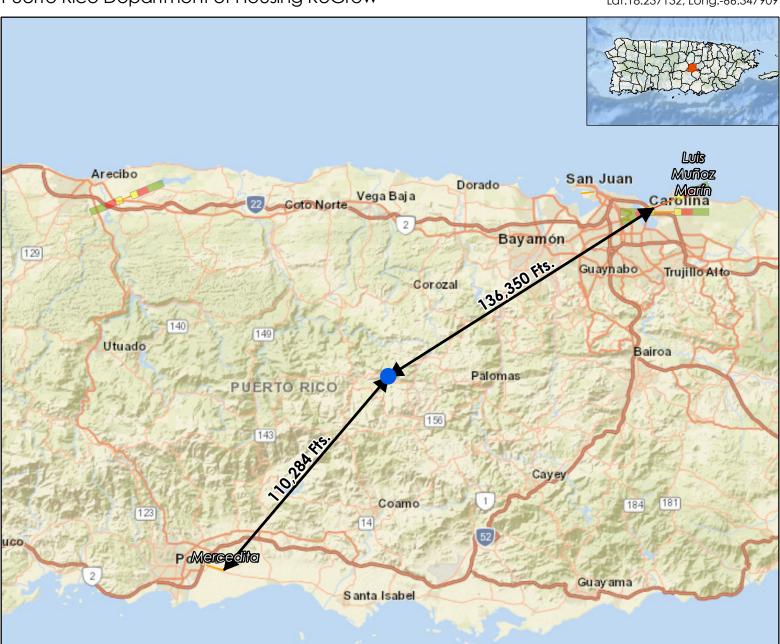


Figure 2.1

Airports Map

Puerto Rico Department of Housing ReGrow

Miguel Marrero Torres/ DBA Finca Sector Los Marrero Carr. 772 Km 7.8 Interior, Bo Canabón, Sect. Los Marrero, Barranquitas, PR 00794 Catastro: 220-035-230-83 /220-035-230-81 Lat:18.237132, Long:-66.347909







PR-RGRW-01327



SJU Military Runaway



PR Airport Runaway

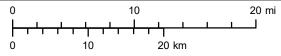






APZ 2





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Esri, Garmin, GEBCO, NOAA NGDC, and other contributors and Google Earth



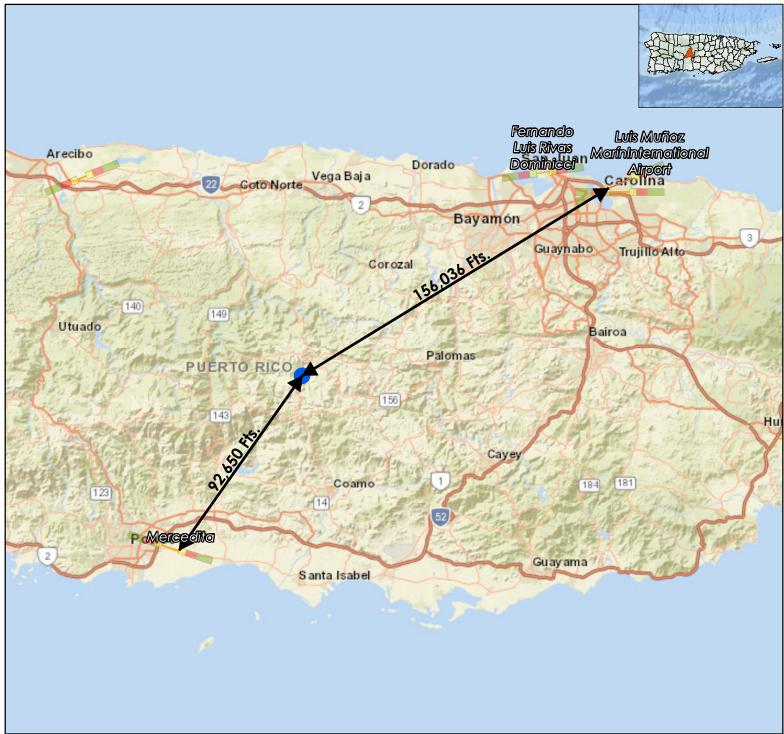
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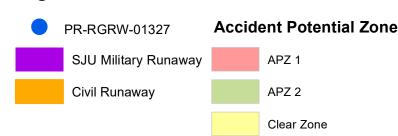
Federal Aviation Administration (FAA) https://adds-faa.opendata.arcgis.com/ Figure 2.2

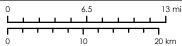
Airports Map
Puerto Rico Department of Housing ReGrow

Miguel Marrero Torres/ DBA Finca Sector Los Marrero Carretera 155, KM 23.7 Int, Bo. Saltos, Sector Los Rosados, Orocovis, PR, 00720 Catastro: 245-017-109-16 / 245-007-109-03 Lat:18.214155, Long: -66.399803



Legend:





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Source

Federal Aviation Administration (FAA) https://adds-faa.opendata.arcgis.com/





Figure 3.1

Miguel Marrero Torres/ DBA Finca Sector Los Marrero

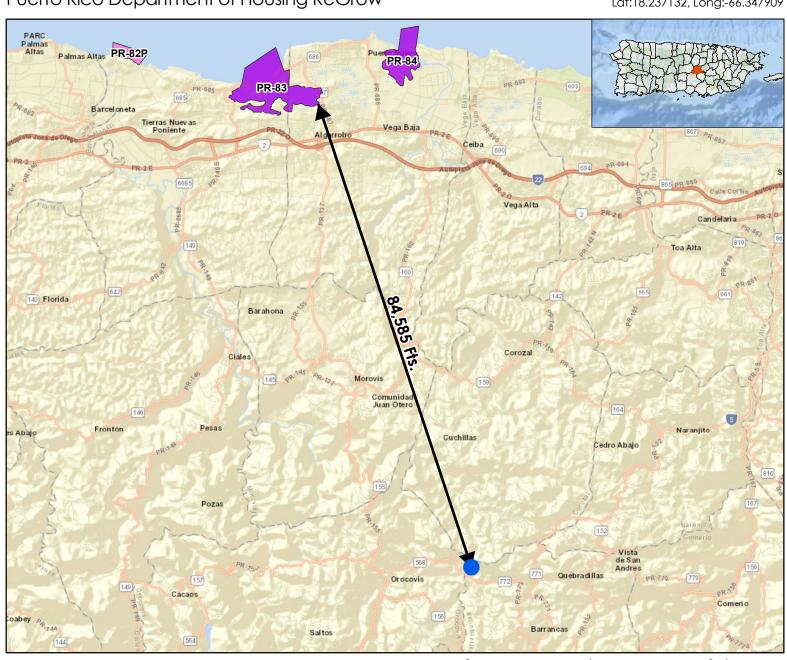
Carr. 772 Km 7.8 Interior, Bo Canabón, Sect. Los Marrero,

Barranquitas, PR 00794 Catastro: 220-035-230-83 /220-035-230-81

Lat:18.237132, Long:-66.347909

Coastal Barrier Resources System

Puerto Rico Department of Housing ReGrow



Legend:



PR-RGRW-01327

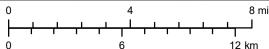
Coastal Barrier Resources System (CBRS)



Otherwise Protected Area



System Unit



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Esri, Garmin, GEBCO, NOAA NGDC, and other contributors



1:200,000

Source

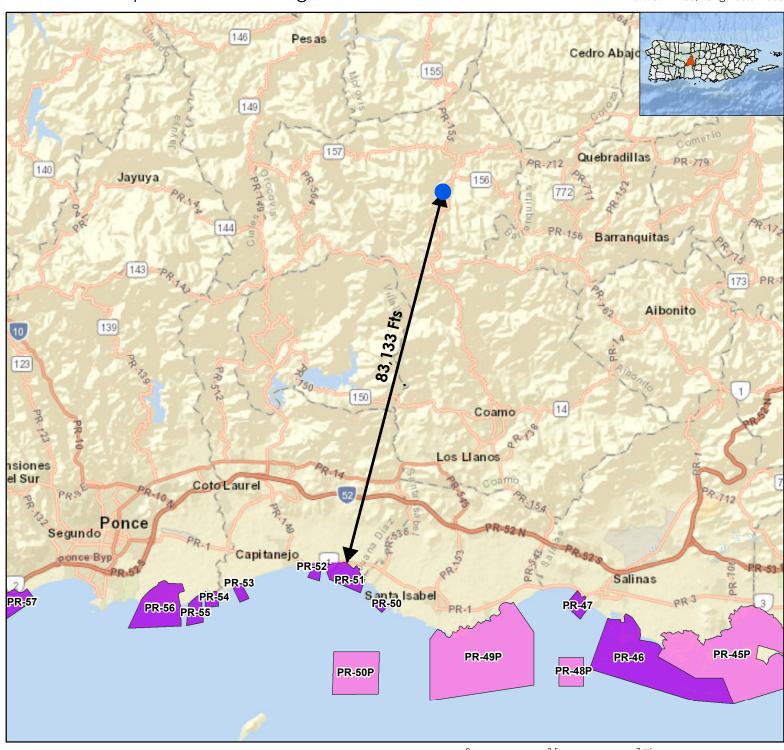
Figure 3.2

-

Coastal Barrier Resources System Map

Puerto Rico Department of Housing ReGrow

Miguel Marrero Torres/ DBA Finca Sector Los Marrero Carretera 155, KM 23.7 Int, Bo. Saltos, Sector Los Rosados, Orocovis, PR, 00720 Catastro: 245-017-109-16 / 245-007-109-03 Lat:18.214155, Long: -66.399803



Legend:



PR-RGRW-01327

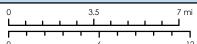
Coastal Barrier Resources System (CBRS)



Otherwise Protected Area



System Unit



Service Layer Credits: Sources: Esri, HERE, DeLorme, USGS, Intermap, increment P Corp., NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand), MapmyIndia, © OpenStreetMap contributors, and the GIS User Community Esri, Garmin, GEBCO, NOAA NGDC, and other contributors



Source





Figure 5.1

Miguel Marrero Torres/ DBA Finca Sector Los Marrero

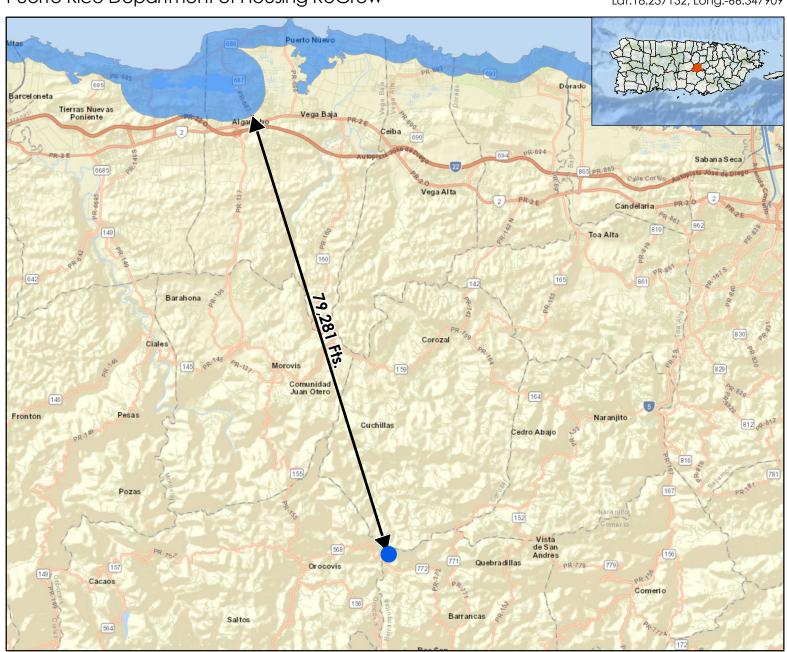
Carr. 772 Km 7.8 Interior, Bo Canabón, Sect. Los Marrero,

Barranquitas, PR 00794 Catastro: 220-035-230-83 /220-035-230-81

Lat:18.237132, Long:-66.347909

Coastal Zone Management

Puerto Rico Department of Housing ReGrow



Legend:



PR-RGRW-01327



Coastal Zone Management



Service Layer Credits: Sources: Esri, HERE, DeLorme, USGS, Intermap, increment P Corp., NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand), MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

Esri, Garmin, GEBCO, NOAA NGDC, and other contributors and Google Earth



Source

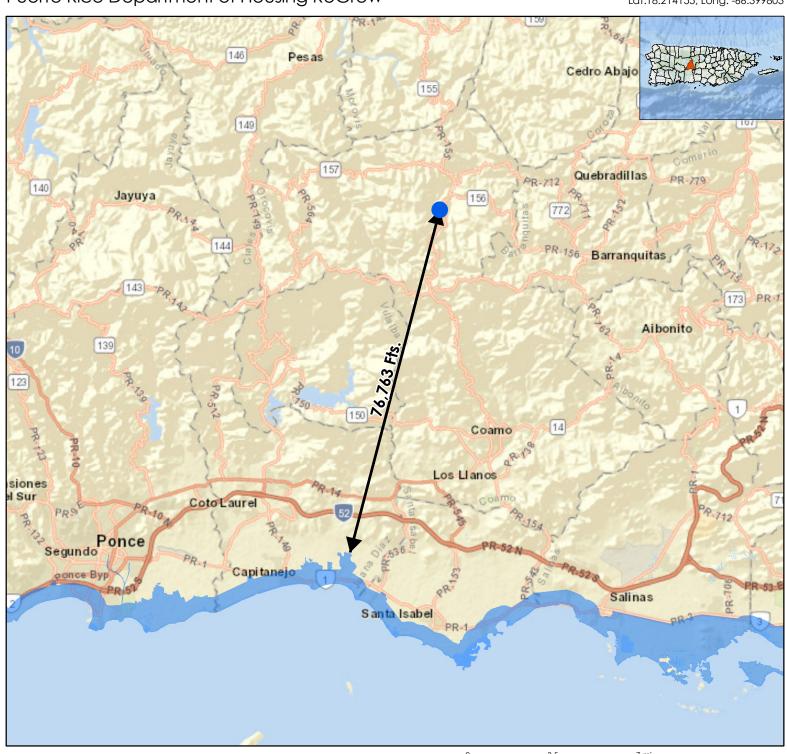
Figure 5.2

Miguel Marrero Torres/ DBA Finca Sector Los Marrero Carretera 155, KM 23.7 Int, Bo. Saltos, Sector Los Rosados, Orocovis, PR, 00720

Catastro: 245-017-109-16 / 245-007-109-03 Lat:18.214155, Long: -66.399803

Coastal Zone Management

Puerto Rico Department of Housing ReGrow



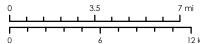
Legend:



PR-RGRW-01327



Coastal Zone Management Act Boundary



Service Layer Credits: Sources: Esri, HERE, DeLorme, USGS, Intermap, increment P Corp., NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand), MapmyIndia, © OpenStreetMap contributors, and the GIS User Community Esri, Garmin, GEBCO, NOAA NGDC, and other contributors



Source





Figure 8.1

Farmland Protection

Puerto Rico Department of Housing ReGrow

Miguel Marrero Torres/ DBA Finca Sector Los Marrero Carr. 772 Km 7.8 Interior, Bo Canabón, Sect. Los Marrero, Barranquitas, PR 00794 Catastro: 220-035-230-83 /220-035-230-81 Lat:18.237132, Long:-66.347909



Legend:



PR-RGRW-01327

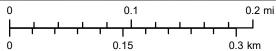
Farm Class



Farmland of statewide importance



Not prime farmland



Service Layer Credits: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community Esri, Garmin, GEBCO, NOAA NGDC, and other contributors and Google Earth



1:5,000

Source

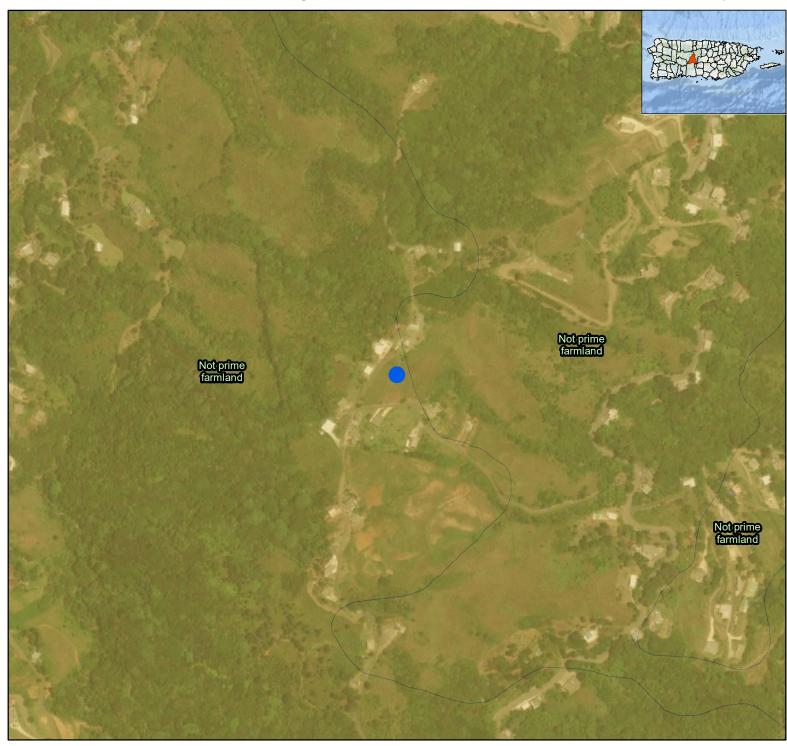
NRCS Gridded Soil Survey Geographic Database (gSSURGO) https://data.nal.usda.gov/dataset/soil-survey-geographic-database-ssurgo

Figure 8.2

Farmland Protection

Puerto Rico Department of Housing ReGrow

Miguel Marrero Torres/ DBA Finca Sector Los Marrero Carretera 155, KM 23.7 Int, Bo. Saltos, Sector Los Rosados, Orocovis, PR, 00720 Catastro: 245-017-109-16 / 245-007-109-03 Lat:18.214155, Long: -66.399803



Legend:

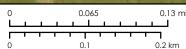


PR-RGRW-01327

Farm Class



Not prime farmland



Service Layer Credits: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community Esri, Garmin, GEBCO, NOAA NGDC, and other contributors



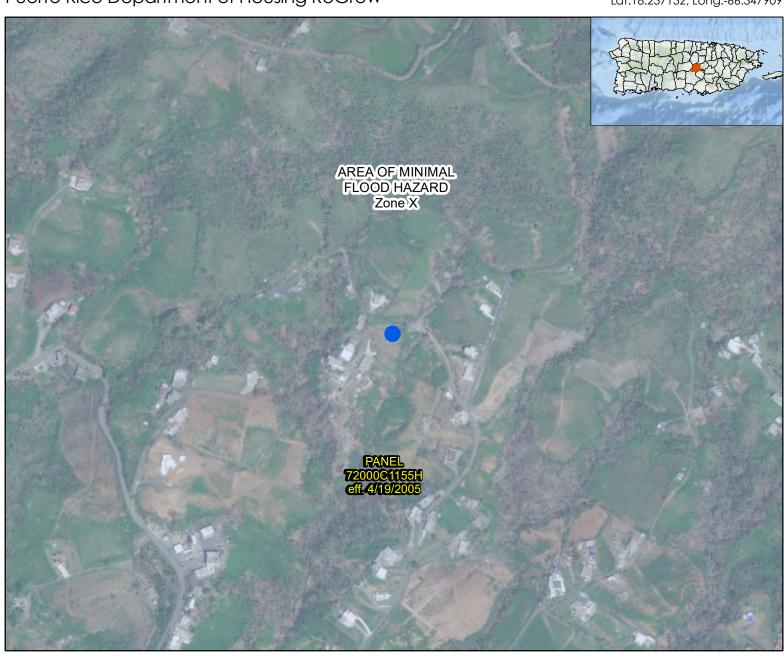
Source

National Resources Conservations Service (NRCS) Gridded Soil Survey Geographic Database (gSSURGO) https://data.nal.usda.gov/dataset/soil-survey-geographic-database-ssurgo

Flood Insurance Rate Map

Puerto Rico Department of Housing ReGrow

Miguel Marrero Torres/ DBA Finca Sector Los Marrero Carr. 772 Km 7.8 Interior, Bo Canabón, Sect. Los Marrero, Barranquitas, PR 00794 Catastro: 220-035-230-83 /220-035-230-81 Lat:18.237132, Long:-66.347909



Legend:



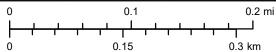
PR-RGRW-01327



Area of Minimal Flood Hazard-Zone X



FIRM Panel



Service Layer Credits: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community Esri, Garmin, GEBCO, NOAA NGDC, and other contributors and Google Earth



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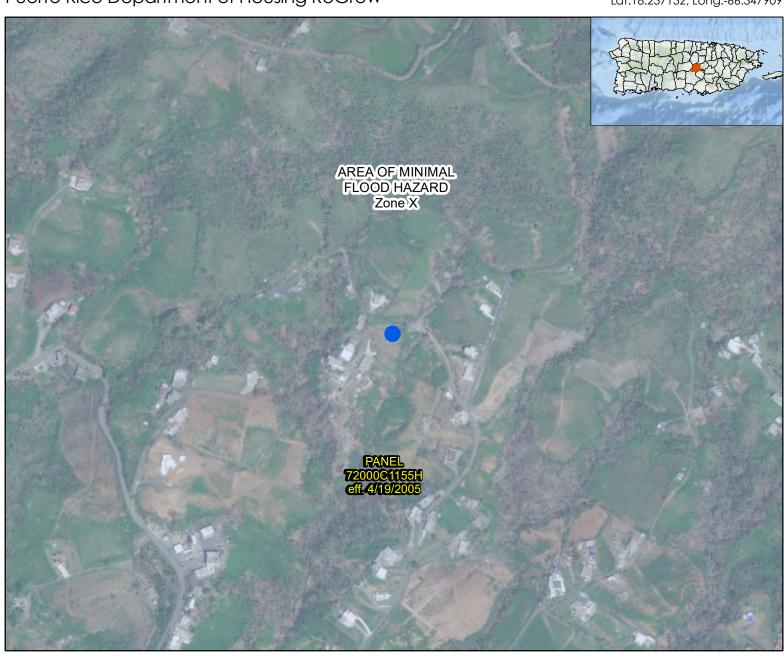
Source

FEMA's National Flood Hazard Layer https://www.fema.gov/flood-maps/national-flood-hazard-layer

Flood Insurance Rate Map

Puerto Rico Department of Housing ReGrow

Miguel Marrero Torres/ DBA Finca Sector Los Marrero Carr. 772 Km 7.8 Interior, Bo Canabón, Sect. Los Marrero, Barranquitas, PR 00794 Catastro: 220-035-230-83 /220-035-230-81 Lat:18.237132, Long:-66.347909



Legend:



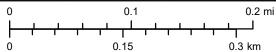
PR-RGRW-01327



Area of Minimal Flood Hazard-Zone X



FIRM Panel



Service Layer Credits: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community Esri, Garmin, GEBCO, NOAA NGDC, and other contributors and Google Earth



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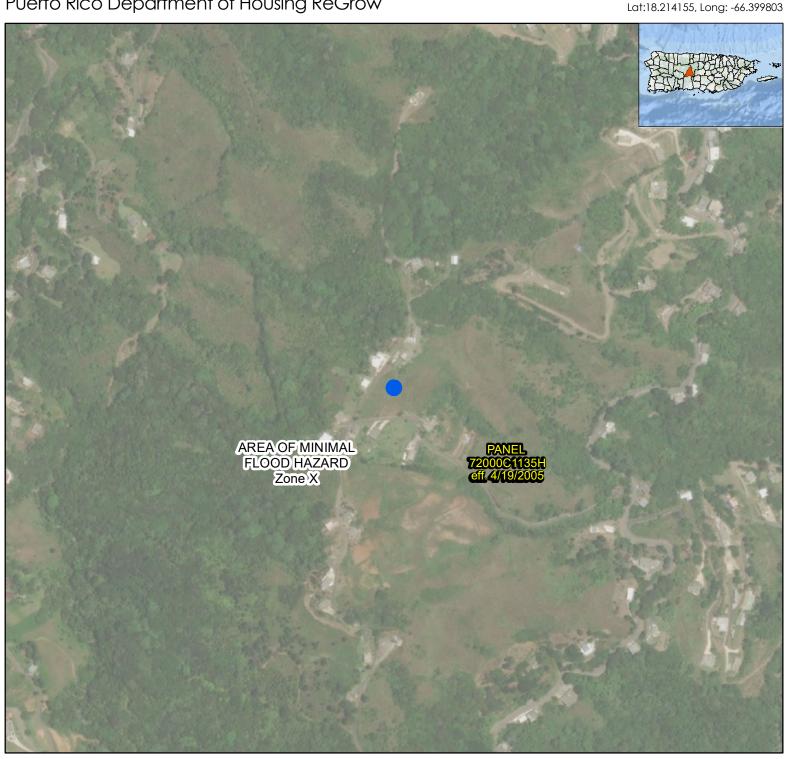
Source

FEMA's National Flood Hazard Layer https://www.fema.gov/flood-maps/national-flood-hazard-layer

Miguel Marrero Torres/ DBA Finca Sector Los Marrero Carretera 155, KM 23.7 Int, Bo. Saltos, Sector Los Rosados, Orocovis, PR, 00720 Catastro: 245-017-109-16 / 245-007-109-03

Flood Insurance Rate Map

Puerto Rico Department of Housing ReGrow



Legend:



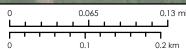
PR-RGRW-01327



Area of Minimal Flood Hazard-Zone X



FIRM Panel



Service Layer Credits: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community Esri, Garmin, GEBCO, NOAA NGDC, and other contributors



Source

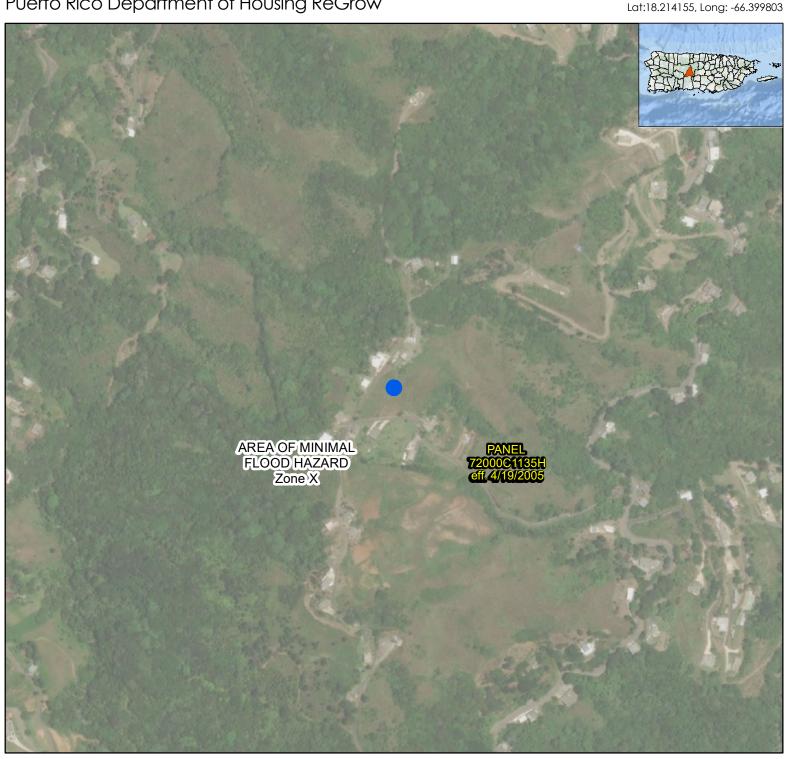
Federal Emergency Management Agency (FEMA) https://msc.fema.gov/portal/home

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Miguel Marrero Torres/ DBA Finca Sector Los Marrero Carretera 155, KM 23.7 Int, Bo. Saltos, Sector Los Rosados, Orocovis, PR, 00720 Catastro: 245-017-109-16 / 245-007-109-03

Flood Insurance Rate Map

Puerto Rico Department of Housing ReGrow



Legend:



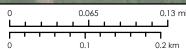
PR-RGRW-01327



Area of Minimal Flood Hazard-Zone X



FIRM Panel



Service Layer Credits: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community Esri, Garmin, GEBCO, NOAA NGDC, and other contributors



Source

Federal Emergency Management Agency (FEMA) https://msc.fema.gov/portal/home

1:5,000

Figure 1.2

Miguel Marrero Torres/ DBA Finca Sector Los Marrero

Application ID: PR-RGRW-01327

Carretera 155, KM 23.7 Int, Bo. Saltos, Sector Los Rosados,

Orocovis, PR, 00720

Catastro: 245-017-109-16 / 245-007-109-03

Lat:18.214155, Long: -66.399803 Lat: 18.213738, Log: -66.399313

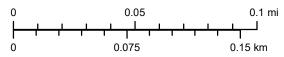
Location: Aerial Map Puerto Rico Department of Housing ReGrow



Legend:







Service Layer Credits: Sources: Esri, HERE, DeLorme, USGS, Intermap, increment P Corp., NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand), MapmyIndia, © OpenStreetMap contributors, and the GIS User Community Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community and Google Earth



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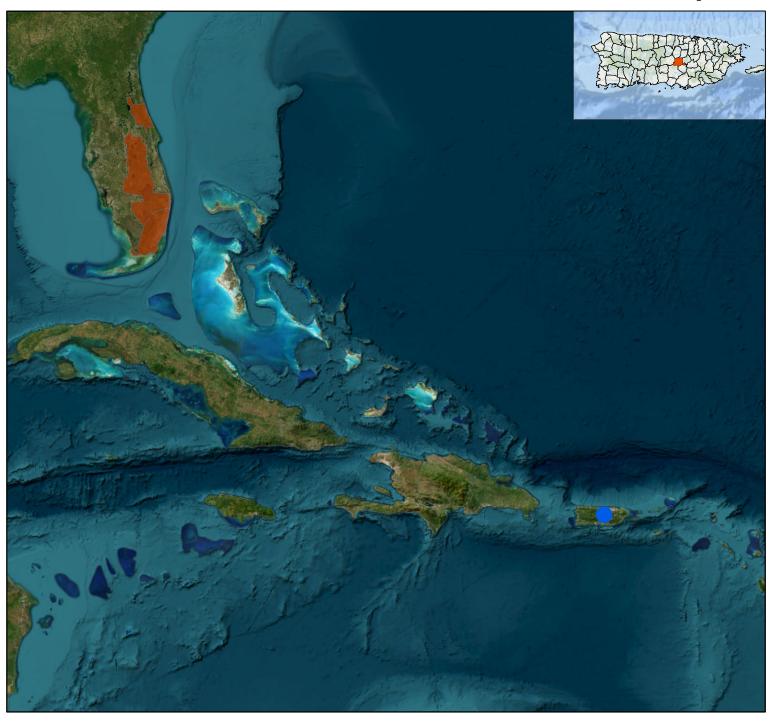
Source

Centro de Recaudación de Ingresos Municipales (CRIM) https://catastro.crimpr.net/cdprpc/

Figure 11.1

EPA Sole Source AquifersPuerto Rico Department of Housing ReGrow

Miguel Marrero Torres/ DBA Finca Sector Los Marrero Carr. 772 Km 7.8 Interior, Bo Canabón, Sect. Los Marrero, Barranquitas, PR 00794 Catastro: 220-035-230-83 /220-035-230-81 Lat:18.237132, Long:-66.347909



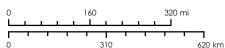
Legend:



PR-RGRW-1327



EPA Sole Source Aquifers



Service Layer Credits: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community
Esri, Garmin, GEBCO, NOAA NGDC, and other contributors



Source

U.S. Environmental Protection Agency https://epa.maps.arcgis.com/apps/webappviewer/index.html ?id=9ebb047ba3ec41ada1877155fe31356b 1:12,000,000

Figure 11.2

Miguel Marrero Torres/ DBA Finca Sector Los Marrero Carretera 155, KM 23.7 Int, Bo. Saltos, Sector Los Rosados, Orocovis, PR, 00720 Catastro: 245-017-109-16 / 245-007-109-03 Lat:18.214155, Long: -66.399803

EPA Sole Source AquifersPuerto Rico Department of Housing ReGrow



Legend:



PR-RGRW-01327



EPA Sole Source Aquifers



Service Layer Credits: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community
Esri, Garmin, GEBCO, NOAA NGDC, and other contributors



Source

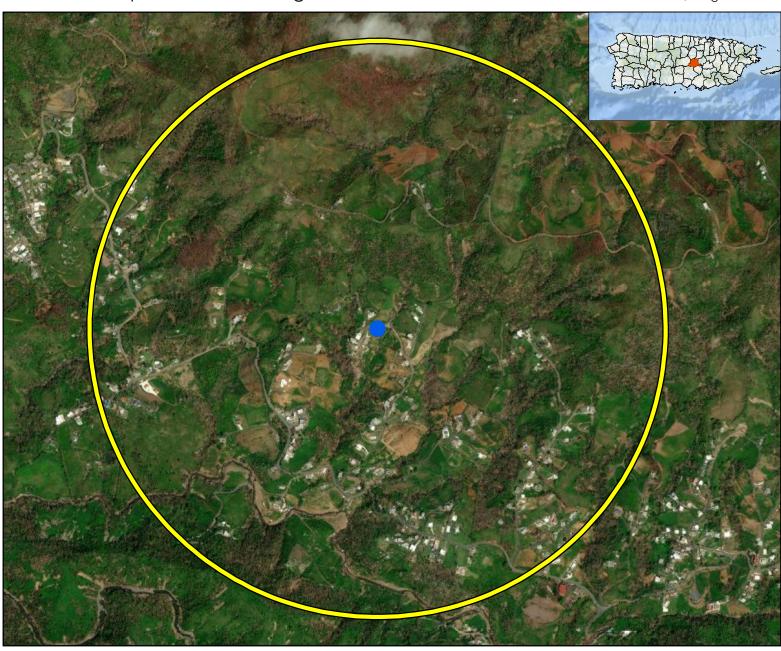
U.S. Environmental Protection Agency https://epa.maps.arcgis.com/apps/webappviewer/index.html ?id=9ebb047ba3ec41ada1877155fe31356b 1:12,000,000

Figure 6.1

Toxic and Hazardous Facilities

Puerto Rico Department of Housing ReGrow

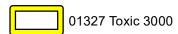
Miguel Marrero Torres/ DBA Finca Sector Los Marrero Carr. 772 Km 7.8 Interior, Bo Canabón, Sect. Los Marrero, Barranquitas, PR 00794 Catastro: 220-035-230-83 /220-035-230-81 Lat:18.237132, Long:-66.347909



Legend:



PR-RGRW-01327



FACILITY INTERESTS

ICIS

NCDB

NPDES

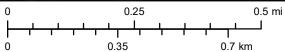


RCRA

RCRA ACTIVE

RCRA INACTIVE

RCRA LQG



Service Layer Credits: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community Esri, Garmin, GEBCO, NOAA NGDC, and other contributors and Google Earth



Source

EPA Facility Registry Service (FRS) https://www.epa.gov/frs



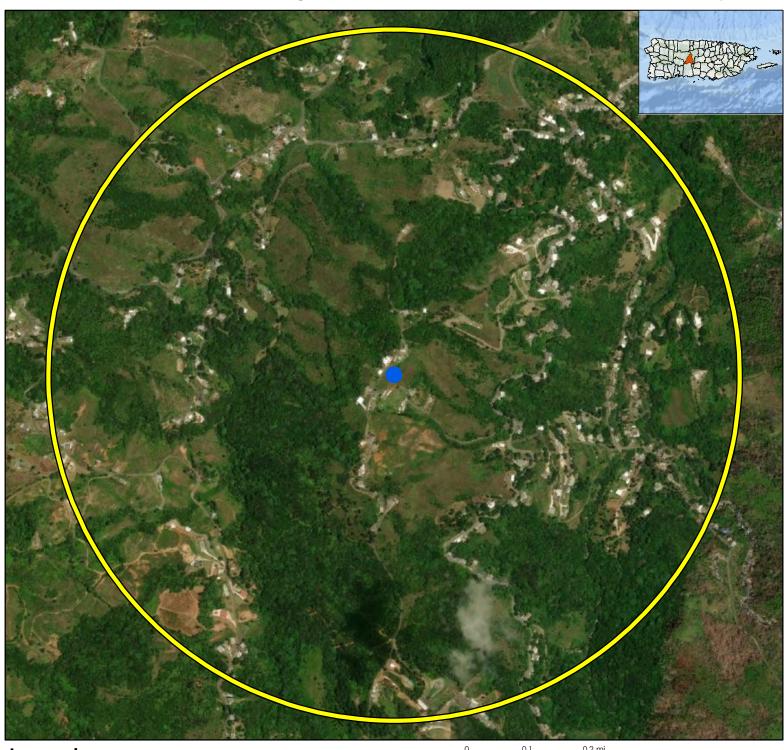
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Figure 6.2

Toxic and Hazardous Facilities

Puerto Rico Department of Housing ReGrow

Miguel Marrero Torres/ DBA Finca Sector Los Marrero Carretera 155, KM 23.7 Int, Bo. Saltos, Sector Los Rosados, Orocovis, PR, 00720 Catastro: 245-017-109-16 / 245-007-109-03 Lat:18.214155, Long: -66.399803



Legend:



PR-RGRW-01327



01327 Toxic 3000



FACILITY INTERESTS



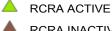
NCDB







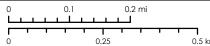
RCRA



RCRA INACTIVE



RCRA LQG



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Source

EPA Facility Registry Service (FRS) https://www.epa.gov/frs



Figure 12.1

Miguel Marrero Torres/ DBA Finca Sector Los Marrero Carr. 772 Km 7.8 Interior,

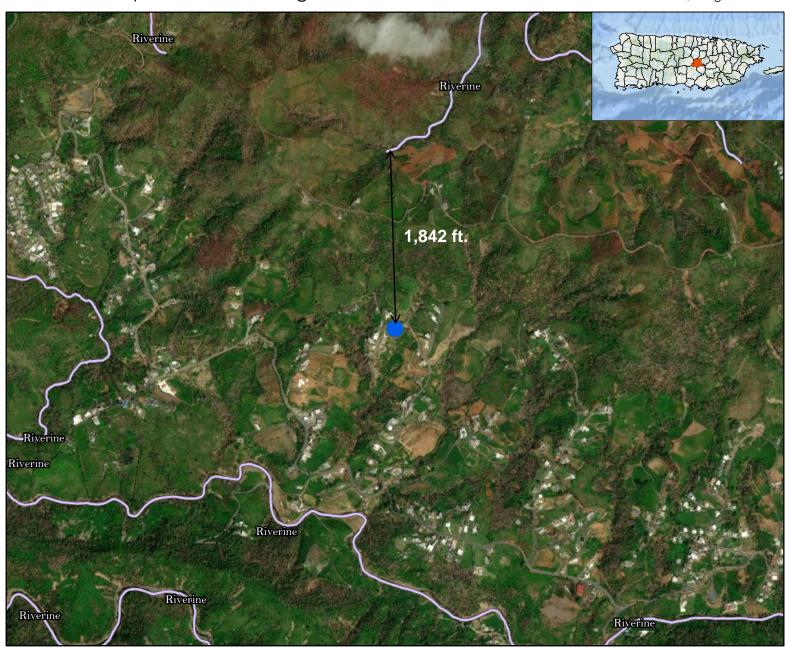
Bo Canabón, Sect. Los Marrero, Barranquitas, PR 00794

Catastro: 220-035-230-83 /220-035-230-81 Lat:18.237132, Long:-66.347909

Catastro: 220-

Wetlands

Puerto Rico Department of Housing ReGrow



Legend:

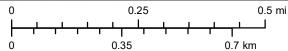


PR-RGRW-01327

National Wetlands Inventory



Riverine



Service Layer Credits: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community Esri, Garmin, GEBCO, NOAA NGDC, and other contributors



1:12,000

Source

U.S. Fish and Wildlife Service - National Weatlands Inventory https://www.fws.gov/program/national-wetlands-inventory

Figure 12.2

Miguel Marrero Torres/ DBA Finca Sector Los Marrero Carretera 155, KM 23.7 Int, Bo. Saltos, Sector Los Rosados, Orocovis, PR, 00720 Catastro: 245-017-109-16 / 245-007-109-03 Lat:18.214155, Long: -66.399803

Wetlands Map

Puerto Rico Department of Housing ReGrow



Legend:

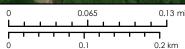


PR-RGRW-01327

National Wetlands Inventory



Riverine



Service Layer Credits: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community Esri, Garmin, GEBCO, NOAA NGDC, and other contributors



U.S. Fish and Wildlife Service - National Weatlands Inventory https://www.fws.gov/program/national-wetlands-inventory 1:5,000

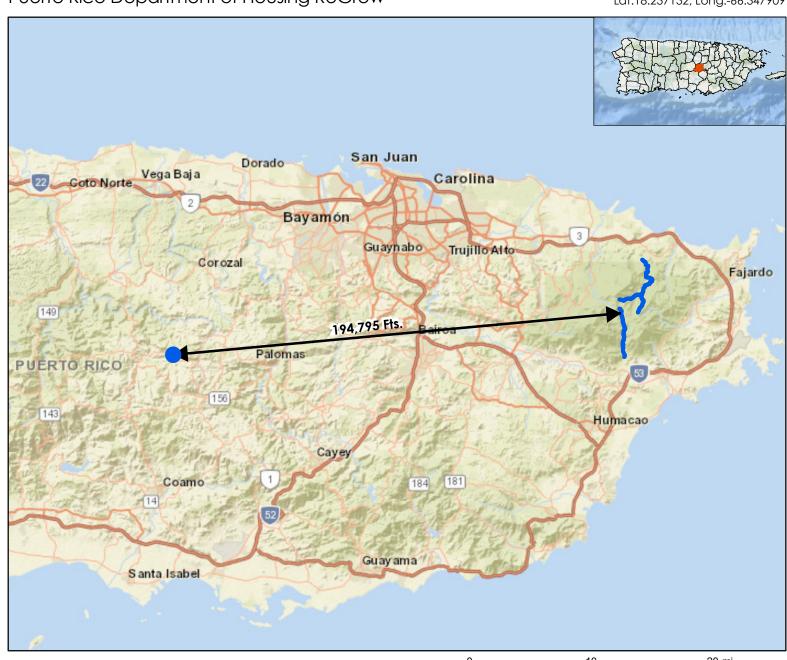


Figure 13.1

Wild and Scenic Rivers

Puerto Rico Department of Housing ReGrow

Miguel Marrero Torres/ DBA Finca Sector Los Marrero Carr. 772 Km 7.8 Interior, Bo Canabón, Sect. Los Marrero, Barranquitas, PR 00794 Catastro: 220-035-230-83 /220-035-230-81 Lat:18.237132, Long:-66.347909

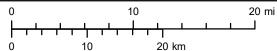


Legend:



PR-RGRW-01327

Wild and Scenic Rivers



Service Layer Credits: Sources: Esri, HERE, DeLorme, USGS, Intermap, increment P Corp., NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand), Mapmylndia, © OpenStreetMap contributors, and the GIS User Community

Esri, Garmin, GEBCO, NOAA NGDC, and other contributors



Source

FWS National Wild and Scenic Rivers System https://www.rivers.gov/mapping-gis.php

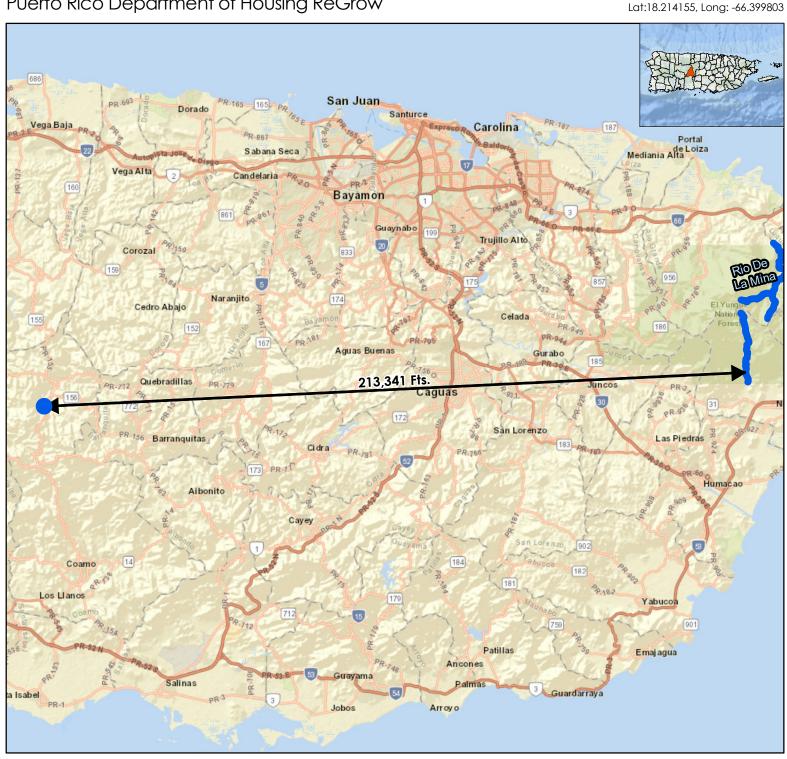
Figure 13.2

Miguel Marrero Torres/ DBA Finca Sector Los Marrero Carretera 155, KM 23.7 Int, Bo. Saltos, Sector Los Rosados,

Orocovis, PR, 00720 Catastro: 245-017-109-16 / 245-007-109-03

Wild and Scenic Rivers

Puerto Rico Department of Housing ReGrow



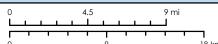
Legend:



PR-RGRW-01327



Wild and Scenic Rivers



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FWS National Wild and Scenic Rivers System https://www.rivers.gov/mapping-gis.php

