

# **Environmental Assessment**

## **Determinations and Compliance Findings for HUD-assisted Projects**

### **24 CFR Part 58**

#### **Project Information**

**Project ID:** PR-RGRW-03971

**Project Name:** ALBERTO LUIS RIVERA RIVERA

**Responsible Entity:** Puerto Rico Department of Housing

**Grant Recipient** (if different than Responsible Entity): same as above

**State/Local Identifier:** Puerto Rico / Municipio of Naranjito

**Preparer:** Heath Anderson, Deputy Program Manager

#### **Certifying Officer Name and Title:**

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**Consultant** (if applicable): SWCA Environmental Consultants

**Direct Comments to:** PR Department of Housing, [environmentcdbg@vivienda.pr.gov](mailto:environmentcdbg@vivienda.pr.gov)

#### **Project Location:**

The proposed project, which includes the construction and installation of three new greenhouses, is located on a 2.56-acre parcel (Parcel number 168-095-160-33-000) at

Carretera 811 KM 0.6 Int Bo. Cedro Abajo, Sector Sabana, Naranjito, Puerto Rico, 00719 (see **Appendix A, Figure 1-** Site Location and **Figure 2-** Site Vicinity). This property is in a rural area in the southwestern portion of Naranjito Municipio. Access to the project areas is provided via unpaved roads.

The applicant has identified three locations for project activities related for the Intended Use of Grant Funds that are being evaluated under this Environmental Assessment (EA), also shown on Figures 1 and 2:

- Greenhouse Site 1 (18.279074, -66.280606) is in the southeastern portion of the parcel, approximately 20 feet north of the southern property boundary.
- Greenhouse Site 2 (18.279212, -66.280489) is in the central eastern portion of the parcel, approximately 35 feet north of Greenhouse Site 1.
- Greenhouse Site 3 (18.279465, -66.280821) is in the western portion of the parcel, approximately 110 feet northwest of Greenhouse site 2.

#### **Description of the Proposed Project** [24 CFR 58.32; 40 CFR 1508.25]:

The proposed project includes the construction and installation of three new greenhouses for growing and harvesting cilantro directly on the ground. The proposed new greenhouses will be in the eastern portion of the parcel and constructed in the “shade house” style. They will be irregular in shape and vary in size, as shown in **Figure A-2**. Greenhouse Site 1 is approximately 4,425 square feet (sq ft); Greenhouse Site 2 is approximately 7,242 sq ft; and Greenhouse Site 3 is approximately 7,250 sq ft. Each greenhouse will be constructed using hardwood posts 10 feet (ft) tall by 4 inches (in) wide extending a maximum of 2 ft into the ground with a maximum of 105 posts in total, around all three greenhouses, and according to manufacturer specifications. The saran roofs will be fastened with steel wire and tightened using a maximum of 14 tensioners. The tensioners will be auger anchors secured into concrete anchors that range from 12 in to 24 in wide and extend a maximum of 2 ft into the ground.

Water for the irrigation system for the three greenhouses will be provided from two existing aboveground cisterns located 27 ft southwest and 82 ft southeast of the applicant's residence. All irrigation piping and connections to the greenhouses from the cisterns will use gravity to distribute water through aboveground surface lines. The pumps and piping for the irrigation system will be privately funded; these components are not included in the IUGF. Electrical connections are not necessary for the project and are not included in the Intended Use of Grant Funds.

Between 2018 and 2019, the applicant plowed the property and created ditches in preparation for agricultural production. The project will involve some minor ground disturbance and possibly pruning of vegetation, but no tree clearing is required for construction. The applicant owns the property; therefore, no acquisition is required.

Tree pruning will be required for greenhouse construction activities and will result in approximately 18-78 trees being pruned.

**Statement of Purpose and Need for the Proposal** [40 CFR 1508.9(b)]:

In September of 2017, Hurricanes Irma and María produced sustained winds and intense rainfall that decimated agricultural production across the island of Puerto Rico. These hurricanes caused the loss of eighty percent of crop value island wide, exacerbating challenges to food security and agricultural business development. The Puerto Rico Department of Agriculture (PRDA) estimated seven hundred and eighty million dollars (\$780 million) worth of damages from the hurricanes to the agricultural sector of the economy.

Many properties were damaged in Hurricane Maria, resulting in struggling businesses. The Re-Grow Puerto Rico Urban-Rural Agriculture Program (Re-Grow Program) will develop greater agricultural capacity and address the needs created by Hurricanes Irma and María with a substantial investment of CDBG-DR funds for a wide variety of viable and sustainable agricultural activities.

Agricultural capacity and strong food systems are fundamental to resiliency of economies and, as Puerto Rico's entire agriculture sector was devastated by the Hurricanes, this Program is designed to revitalize this industry. The Re-Grow Program is an integral part of the long-term expansion of jobs in the sector, food security and contributing to overall economic recovery of disaster impacted populations.

The applicant plans to use the funds to construct greenhouses for harvesting cilantro. The applicant does not have the resources to fund the purchase and installation of the greenhouses. The new greenhouses will help increase agricultural production on the farm and support continued local agricultural production during future disasters.

Agencies consulted for the proposed project are provided in the *List of Sources, Agencies and Persons Consulted* section of this Environmental Assessment (EA). Further discussion of the environmental impacts of the proposed action and alternatives is provided in the *Cumulative Impact Analysis, Alternatives/No Action Alternative, and Summary of Findings and Conclusions* sections of this EA.

**Existing Conditions and Trends** [24 CFR 58.40(a)]:

The proposed project is a generally rural area of Naranjito Municipio. The entire property is classified as Specially Protected Rustic Land–Agricultural (SREP-A) and zoned for Productive Agricultural (A-P). Land use surrounding the parcel consists primarily of scattered low-density residential development to the north, east and south. Land use to the west of the parcel is mostly agricultural or undeveloped.

The general topography of the property is gently sloping and open with vegetated areas. The property is currently used for residential and agricultural use. The applicant's

residence is in the north central portion of the property. Greenhouse Sites 1 and 2 are currently undeveloped and vegetated with surrounding trees. Minor tree clearing or pruning will be required. The National Wetland Inventory (NWI) map shows that Greenhouse Sites 1 and 2 are within the riverine wetland Rio Mavilla; however, photo interpretation of ortho imagery shows that Rio Mavilla is south southeast of the project footprint and, while it is in proximity to the project area, direct impact is not anticipated. Neither of the greenhouse sites will be located within Rio Mavilla. Greenhouse Site 3 is cleared land with surrounding vegetation and trees. All the sites are sloped, but due to the nature of the greenhouses will not require grading. Greenhouse Sites 1 and 2 are closer to Rio Mavilla, while Greenhouse Site 3 is on a terrace.

**Funding Information**

Grant Number	HUD Program	Funding Amount
B-17-DM-72-0001 B-18-DP-72-0001 B-19-DP-78-0002 B-18-DE-72-0001	Community Development Block Grant – Disaster Recovery (CDBG-DR)	\$ 11,938,162,230

**Estimated Total HUD Funded Amount:** \$ 32,157.53

**Estimated Total Project Cost** (HUD and non-HUD funds) [24 CFR 58.32(d)]: \$ 32,157.53

**Compliance with 24 CFR 58.5 and 58.6 Laws and Authorities**

Record below the compliance or conformance determinations for each statute, executive order, or regulation. Provide credible, traceable, and supportive source documentation for each authority. Where applicable, complete the necessary reviews or consultations and obtain or note applicable permits of approvals. Clearly note citations, dates/names/titles of contacts, and page references. Attach additional documentation as appropriate.

<b>Compliance Factors:</b> Statutes, Executive Orders, and Regulations listed at 24 CFR §58.5 and §58.6	Are formal compliance steps or mitigation required?	Compliance Determinations
<b>STATUTES, EXECUTIVE ORDERS, AND REGULATIONS LISTED AT 24 CFR 58.6</b>		
<b>Airport Hazards</b>  24 CFR Part 51 Subpart D	Yes    No <input type="checkbox"/> <input checked="" type="checkbox"/>	The project sites are not within 2,500 ft of a civil primary or commercial service airport or within 15,000 ft of a military airport. The nearest civil primary or

		<p>commercial service airport, Fernando Luis Ribas Dominicci, is located 88,089 ft (17 miles [mi]) from the project site. The nearest military airport, Luis Munoz Marin International Airport, is located 108,181 ft (20 mi) from the project site. Project activities are therefore an exempt activity. No further evaluation is required. The project is in compliance with airport hazards requirements.</p> <p>The Airport Hazards Partner Worksheet and Airport Hazards Map (<b>Figure B 1-1</b>) are provided in <b>Appendix B, Attachment 1</b>.</p>
<p><b>Coastal Barrier Resources</b></p> <p>Coastal Barrier Resources Act, as amended by the Coastal Barrier Improvement Act of 1990 [16 USC 3501]</p>	<p>Yes    No</p> <p><input type="checkbox"/>    <input checked="" type="checkbox"/></p>	<p>The project sites are not located in a Coastal Barrier Resource Systems Unit (CBRS) or Otherwise Protected Area (OPA). The closest CBRS unit or OPA, Punta Salinas, is located 73,760 ft (14 mi) from the project site. No further evaluation is required. The project is in compliance with the Coastal Barrier Resources Act.</p> <p>The Coastal Barrier Resources Act Partner Worksheet and Coastal Barrier Resources Map (<b>Figure B 2-1</b>) are provided in <b>Appendix B, Attachment 2</b>.</p>
<p><b>Flood Insurance</b></p> <p>Flood Disaster Protection Act of 1973 and National Flood Insurance Reform Act of 1994 [42 USC 4001-4128 and 42 USC 5154a]</p>	<p>Yes    No</p> <p><input type="checkbox"/>    <input checked="" type="checkbox"/></p>	<p>A review of the FEMA Flood Insurance Rate Map (FIRM), Community Panel 72000C0695H (effective date 4/19/2005), shows the project sites are in Flood Zone X, which is not in a Special Flood Hazard Area (SFHA). Flood insurance is not required. No further evaluation is required. The project is in compliance with the Flood Disaster Protection Act and National Flood Insurance Reform Act.</p> <p>The Flood Insurance Partner Worksheet and FIRM (<b>Figure B 3-1</b>) are provided in <b>Appendix B, Attachment 3</b>.</p>
<p><b>STATUTES, EXECUTIVE ORDERS, AND REGULATIONS LISTED AT 24 CFR 58.5</b></p>		

<p><b>Clean Air</b></p> <p>Clean Air Act, as amended, particularly section 176(c) &amp; (d); 40 CFR Parts 6, 51, 93</p>	<p>Yes    No</p> <p><input type="checkbox"/>    <input checked="" type="checkbox"/></p>	<p>The project sites are in Naranjito Municipio, which is within a U.S. Environmental Protection Agency (USEPA) designated attainment area. Municipios in Nonattainment or Maintenance areas include Arecibo, Bayamon, Catano, Guaynabo, Salinas, San Juan and Toa Baja. Project activities include new construction of three greenhouses. The project is not anticipated to have a negative impact on air quality as emissions associated with the proposed actions are temporary and limited to the use of small construction equipment and will be well below the Federal General Conformity Rule de minimis thresholds. No further evaluation is required. The project is in compliance with the Clean Air Act.</p> <p>The Air Quality Partner Worksheet, List of Non-Attainment/Maintenance Status Counties in Puerto Rico, and Clean Air Map (<b>Figure B 4-1</b>) are provided in <b>Appendix B, Attachment 4.</b></p>
<p><b>Coastal Zone Management</b></p> <p>Coastal Zone Management Act, sections 307(c) &amp; (d)</p>	<p>Yes    No</p> <p><input type="checkbox"/>    <input checked="" type="checkbox"/></p>	<p>The project sites are not located within the Puerto Rico Coastal Management Zone. The closest coastal zone area is located 59,662 ft (11 mi) from the project site. No further evaluation is required. The project is in compliance with the Coastal Zone Management Act.</p> <p>The Coastal Zone Management Partner Worksheet and Coastal Zone Map (<b>Figure B 5-1</b>) are provided in <b>Appendix B, Attachment 5.</b></p>
<p><b>Contamination and Toxic Substances</b></p> <p>24 CFR Part 58.5(i)(2)</p>	<p>Yes    No</p> <p><input type="checkbox"/>    <input checked="" type="checkbox"/></p>	<p>The project sites were evaluated for potential contamination by conducting a field site inspection on May 30, 2023 to identify any onsite hazards including, but not limited to, soil staining, above ground storage tanks, signs of underground storage tanks, odors, hazardous debris etc.</p>

	<p>The site inspection did not identify any onsite hazards, stained soil or vegetation and the project is in compliance with contamination and toxic substances requirements.</p> <p>Although the project includes activities that may not be exempt, PRDOH consulted with HUD and both parties determined that the recommended best practices and alternative options for radon testing are unfeasible and impractical (see Radon Agency Correspondence and Memorandum).</p> <p>In addition, a desktop review of USEPA databases, NEPAassist, and other sources was conducted to determine if the project site was located near dump sites, junk yards, landfills, hazardous waste sites, or industrial sites, including USEPA National Priorities List Sites (Superfund sites), CERCLA or state-equivalent sites, RCRA Corrective Action sites with release(s) or suspected release(s) requiring clean-up action and/or further investigation. The parcel has been used for agricultural purposes and there has been no change in land use in the last 20 years. The project is located in a rural area of Naranjito Municipio and will continue to be used for agricultural purpose.</p> <p>The desktop review did not find any of the above-listed toxic, hazardous or radioactive substances in or within 3,000 feet of the project area. The project is in compliance with contamination and toxic substances requirements.</p> <p>The Contamination and Toxics Substances Partner Worksheet Site Inspection Report, Radon Agency Correspondence and Memorandum, and Contamination and Toxic Substances Map (<b>Figure B 6-1</b>) are provided in <b>Appendix B, Attachment 6</b>.</p>
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<p><b>Endangered Species</b></p> <p>Endangered Species Act of 1973, particularly section 7; 50 CFR Part 402</p>	<p>Yes    No</p> <p><input checked="" type="checkbox"/>    <input type="checkbox"/></p>	<p>The project involves activities that have the potential to affect protected species or habitats including but not limited to activities such as ground disturbance.</p> <p>Threatened, endangered, and migratory bird species were identified by reviewing data from the United States Fish and Wildlife Service (USFWS) Information for Planning Consultation (IPaC) Tool. In addition, critical species habitat was reviewed through the USFWS IPaC, Critical Habitat Portal.</p> <p>The review identified one federally listed species, the Puerto Rican boa (<i>Chilobothrus inornatus</i>) with the potential to occur within the Project area. There is no designated or proposed critical habitat within the Project area; there is proposed critical habitat 89,240 ft (17 mi) away and final critical habitat 56,766 ft (11 mi) away.</p> <p>The project activities will result in ground disturbing activities, including site clearance and grading and construction of three new greenhouses. A qualified biologist reviewed the proposed activity locations and determined that although suitable habitat for the Puerto Rican boa is not present with the project area, due to the generalist nature of this species, the applicant will employ the conservation measures outlined in the 2024 USFWS General Project Design Guidelines for the Puerto Rican boa (Appendix D), including but not limited to issuing a stop work if a Puerto Rican boa were to occur within the project area, and contacting the PRDNER for safe capture and relocation of the individual if such action is required. Consequently, it is anticipated that the project may affect, but is not likely to adversely affect (NLAA) the Puerto Rican boa. PRDOH conducted informal consultation with</p>
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		<p>the USFWS, and the USFWS and acknowledged the receipt of the Dkey NLAA consistency letter on Wednesday, August 28, 2024. If a Puerto Rican Boa is found in the project action site, work shall cease until the Boa moves off on its own. If the Boa does not move off, the construction manager shall contact the Puerto Rico Department of Natural and Environmental Resources and ask for them to relocate the Boa.</p> <p>The Endangered Species Act Partner Worksheet, Threatened and Endangered Species Technical Memorandum with IPaC, Critical Habitat Map (<b>Figure B 7-1</b>) are provided in <b>Appendix B, Attachment 7</b>.</p>
<p><b>Explosive and Flammable Hazards</b></p> <p>24 CFR Part 51 Subpart C</p>	<p>Yes    No</p> <p><input type="checkbox"/>   <input checked="" type="checkbox"/></p>	<p>The project includes the new construction of three greenhouses. The project itself is not the development of a hazardous facility nor will the project increase residential densities. Project activities are therefore an exempt activity. No further evaluation is required. The project is in compliance with explosive and flammable hazard requirements.</p> <p>The Explosive and Flammable Hazards Partner Worksheet is provided in <b>Appendix B, Attachment 8</b>.</p>
<p><b>Farmlands Protection</b></p> <p>Farmland Protection Policy Act of 1981, particularly sections 1504(b) and 1541; 7 CFR Part 658</p>	<p>Yes    No</p> <p><input type="checkbox"/>   <input checked="" type="checkbox"/></p>	<p>This project does not include any activities that could potentially convert agricultural land to non-agricultural use. Per the USGS/NRCS Web Soil Survey, the project area crosses two (2) mapped soil series: Consumo (CuF) clay and Anones humic (CuE), 40 to 60 percent slopes. No prime farmland or farmlands of statewide importance are within the project area. Although the project includes new construction, the project is exempt from review under the Farmland Protection Policy Act (FFPA) as the project area is not prime farmland. No further review is required. The project is</p>

		<p>in compliance with the Farmland Protection Policy Act.</p> <p>The Farmlands Protection Partner Worksheet and Prime Farmland Map (<b>Figure B 9-1</b>) are provided in <b>Appendix B, Attachment 9.</b></p>
<p><b>Floodplain Management</b></p> <p>Executive Order 11988, particularly section 2(a); 24 CFR Part 55</p>	<p>Yes    No</p> <p><input type="checkbox"/>    <input checked="" type="checkbox"/></p>	<p>An Advisory Base Flood Elevation (ABFE) map was developed by FEMA, which shows the project sites are in Flood Zone X. The project is not located in the 100-year floodplain or ABFE special flood hazard area; therefore, no further action is required. The extent of the FFRMS floodplain was determined using the 0.2 percent flood approach. The project is in compliance with Executive Order 11988, as amended by Executive Order 13690.</p> <p>PFIRMs in Puerto Rico were only developed for certain sections of the municipalities of Carolina, Canovanas, Loiza, San Juan and Trujillo Alto. The proposed project is located in the municipality of Naranjito; therefore, PFIRM information was not available for the area and therefore not considered in the review.</p> <p>HUD implemented new floodplain regulations under 89 FR 30850 effective June 24, 2024 which created the Federal Flood Risk Management Standard (FFRMS). The current project comprises non-critical actions that lie outside the 0.2-percent-annual-chance (500-year flood elevation), which is the approach used for this project to comply with the FFRMS; therefore, mitigation is not required and the project is in compliance with 24 CFR Part 55.</p> <p>The Floodplain Management Partner Worksheet and ABFE Floodplain Map (<b>Figure B 10-1</b>) are provided in <b>Appendix B, Attachment 10.</b></p>

<p><b>Historic Preservation</b></p> <p>National Historic Preservation Act of 1966, particularly sections 106 and 110; 36 CFR Part 800</p>	<p>Yes    No</p> <p><input type="checkbox"/>    <input checked="" type="checkbox"/></p>	<p>The project will involve new construction of three greenhouses on a property with a house on it. Based on the architectural style of the home and historic aerial imagery. The structure is less than 45 years in age; therefore, the project is exempt from formal SHPO review. Significant ground disturbing activities of previously undisturbed soil will occur; therefore State Historic Preservation Office (SHPO) consultation was performed.</p> <p>No National Historic Landmark (NHL) are within or near the project area.</p> <p>A site visit was conducted on May 30, 2023 by an SOI-qualified Archaeologist. Record reviews and research were conducted at the SHPO and the Instituto de Cultura Puertorriqueña (ICP) to determine if any archaeologically sensitive resources could be present within a 0.5-mile radius.</p> <p>The results of the record search and the site inspection indicate that there are no historic properties or cultural resources within the 0.50-mile radius study area or within the project Area of Potential Effect (APE). Based on the results of the historic property identification efforts, the Program has determined that project actions will not affect historic properties that compose the APE.</p> <p>The determination was submitted to SHPO by PRDOH for concurrence on August 14, 2023, and SHPO concurred with the No Historic Properties Affected determination on August 18, 2023. No further evaluation is required. The project is in compliance with the National Historic Preservation Act. The scope of work was disaggregated on October 24, 2023 after SHPO consultation was completed and all moveable equipment (ground cover, materials, saran, tractor zero turn,</p>
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		<p>blower, trimmer, saw, tractor) was processed under a CENST level of review.</p> <p>The Historic Preservation Partner Worksheet, Previously Recorded Cultural Resources Map (<b>Figure B 11-1</b>), and SHPO consultation are provided in <b>Appendix B, Attachment 11</b>.</p>
<p><b>Noise Abatement and Control</b></p> <p>Noise Control Act of 1972, as amended by the Quiet Communities Act of 1978; 24 CFR Part 51 Subpart B</p>	<p>Yes    No</p> <p><input type="checkbox"/>   <input checked="" type="checkbox"/></p>	<p>The project activities are limited to the new construction of three greenhouses and do not involve residential new construction or rehabilitation. Project activities are therefore an exempt activity. No further evaluation is required. The project is in compliance with HUD's noise regulation.</p>
<p><b>Sole Source Aquifers</b></p> <p>Safe Drinking Water Act of 1974, as amended, particularly section 1424(e); 40 CFR Part 149</p>	<p>Yes    No</p> <p><input type="checkbox"/>   <input checked="" type="checkbox"/></p>	<p>According to the USEPA's Source Water Protection, Sole Source Aquifer Protection Program, there are no sole source aquifers in Puerto Rico. No further evaluation is required. The project is in compliance with the Safe Drinking Water Act.</p> <p>The Sole Source Aquifer Partner Worksheet and Sole Source Aquifer Map (<b>Figure B 12-1</b>) are provided in <b>Appendix B, Attachment 12</b>.</p>
<p><b>Wetlands Protection</b></p> <p>Executive Order 11990, particularly sections 2 and 5</p>	<p>Yes    No</p> <p><input checked="" type="checkbox"/>   <input type="checkbox"/></p>	<p>The project sites were reviewed for the presence of wetlands using the USFWS National Wetland Inventory Mapper (NWI) which shows a Riverine Wetland along the southern border of the property line. The Riverine Wetland, the Rio Mavailla (shown as an NHD stream on Figure B 13-1) shows on the NWI mapper as running through the footprints for Greenhouses 1 and 2; however, the site-visit and photo interpretation of ortho imagery shows that the Rio Mavailla, is actually south southeast of the project footprint and while it is in proximity to the project area direct impact is not anticipated. Neither of the greenhouses will be located within Rio Mavailla. The 8-Step process</p>

		<p>was completed and the project is in compliance with 24 CFR 55.20. An Early wetland notice was published on 11/06/2023 with the subsequent Final wetland notice published on 06/03/2024; no comments were received.</p> <p>Because the site-visit determined the greenhouses will not be located within the NWI mapped riverine wetland, there will be no direct impact to the stream. Additionally, the implementation of best management practices, such as silt fencing and erosion control, during any ground-disturbing activities will ensure there will be no indirect impact. No further evaluation is required. The project is in compliance with Executive Order 11990. Note- the NWI online webmapper, accessed on March 31, 2023, shows this NHD stream is a riverine wetland.</p> <p>The Wetlands Protection Partner Worksheet, 8-Step, and Wetland Map (<b>Figure B 13-1</b>) are provided in <b>Appendix B, Attachment 13.</b></p>
<p><b>Wild and Scenic Rivers</b></p> <p>Wild and Scenic Rivers Act of 1968, particularly section 7(b) and (c)</p>	<p>Yes    No</p> <p><input type="checkbox"/>    <input checked="" type="checkbox"/></p>	<p>A review of the USFWS National Wild and Scenic River mapper identified no Wild and Scenic Rivers or National Rivers Inventory (NRI) rivers present in Naranjito Municipio. The closest Wild and Scenic River segment is located 170,354 ft (32 mi) from the project site. No further evaluation is required. The project is in compliance with the Wild and Scenic Rivers Act.</p> <p>The Wild and Scenic Rivers Partner Worksheet and Wild and Scenic Rivers Map (<b>Figure B 14-1</b>) are provided in <b>Appendix B, Attachment 14.</b></p>
<p><b>ENVIRONMENTAL JUSTICE</b></p>		
<p><b>Environmental Justice</b></p> <p>Executive Order 12898</p>	<p>Yes    No</p> <p><input type="checkbox"/>    <input checked="" type="checkbox"/></p>	<p>The ReGrow Program intends to alleviate negative economic impacts to, and strengthen, the agricultural</p>

		<p>industry in Puerto Rico. The project's direct and indirect impacts are limited to a small area on a single land parcel. The project will benefit the farm owner by improving agricultural use and production. The project would not facilitate development that would negatively affect human health or result in disproportionate adverse environmental impacts to low-income or minority populations. The project is in compliance with Executive Order 12898.</p> <p>The Environmental Justice Partner Worksheet and EJSscreen Report are provided in <b>Appendix B, Attachment 15.</b></p>
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**Environmental Assessment Factors** [24 CFR 58.40; Ref. 40 CFR 1508.8 & 1508.27] Recorded below is the qualitative and quantitative significance of the effects of the proposal on the character, features and resources of the project area. Each factor has been evaluated and documented, as appropriate and in proportion to its relevance to the proposed action. Verifiable source documentation has been provided and described in support of each determination, as appropriate. Credible, traceable and supportive source documentation for each authority has been provided. Where applicable, the necessary reviews or consultations have been completed and applicable permits of approvals have been obtained or noted. Citations, dates/names/titles of contacts, and page references are clear. Additional documentation is attached, as appropriate. **All conditions, attenuation or mitigation measures have been clearly identified.**

**Impact Codes:** Use an impact code from the following list to make the determination of impact for each factor.

- (1) Minor beneficial impact
- (2) No impact anticipated
- (3) Minor Adverse Impact – May require mitigation
- (4) Significant or potentially significant impact requiring avoidance or modification which may require an Environmental Impact Statement

Environmental Assessment Factor	Impact Code	Impact Evaluation
<b>LAND DEVELOPMENT</b>		

<p>Conformance with Plans / Compatible Land Use and Zoning / Scale and Urban Design</p>	<p>2</p>	<p>The project includes the new construction of three greenhouses. The project site location(s) are classified as rural general land use. The proposed action is continued agricultural use of property, which is compatible with zoning and existing land use.</p> <p>Construction actions include new construction which increase the current function of the existing land use. There is no change in land use since the land will continue to be used for agriculture purposes. The project site is in a low-density residential area of Naranjito Municipio, and project activities will not contribute to urban sprawl.</p> <p>The applicant and/or construction manager is required to obtain any necessary local and territorial building and environmental permits prior to construction activities commencing.</p>
<p>Soil Suitability/ Slope/ Erosion/ Drainage/ Storm Water Runoff</p>	<p>2</p>	<p>The project includes the new construction of three greenhouses. Soil suitability will be assessed prior to construction and will be addressed during local permitting processes. Per the USGS/NRCS Web Soil Survey, the project area crosses two (2) mapped soil series: Consumo (CuF) clay and Anones humic (CuE), 40 to 60 percent slopes. Contractors will be required to use best management practices during construction to control erosion and prevent runoff. The soil is currently being used for agriculture purposes.</p> <p>Landslide data from the U.S. Geological Survey (USGS) indicates less than 25 landslides per square kilometer for the project area (see Appendix A, Figure 3- USGS Landslide Map).</p> <p>Department of Natural and Environmental Resources (DNER) authorization may be required for any extraction, removal, excavation, and dredging of the components of the earth's crust.</p>
<p>Hazards and Nuisances including Site Safety and Noise</p>	<p>2</p>	<p>The project includes the new construction of three greenhouses. Contractors will be required to provide health and safety plans and monitoring during construction. Noise levels will temporarily increase during construction which may impact surrounding neighbors; however, program activities are limited to the existing farm property and will not elevate ambient</p>

		noise levels long-term. Contractors will be required to comply with the applicable local noise ordinances. Noise impacts will be mitigated by restricting construction activities to daylight hours. Additionally, the project does not include housing to where inhabitants would be affected.
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Environmental Assessment Factor	Impact Code	Impact Evaluation
<b>SOCIOECONOMIC</b>		
Employment and Income Patterns	2	<p>The project includes the new construction of three greenhouses. The project will result in short-term benefit to employment if contractors are hired for the construction of three greenhouses. After construction, the project will support the continuation of operations and intended use of the farm, which provides produce for Puerto Rico communities.</p> <p>The project is not anticipated to have a significant impact on employment and income patterns; however, the project may help restore employment opportunities and income patterns.</p>
Demographic Character Changes, Displacement	2	<p>The project includes the new construction of three greenhouses. The project is in a low-density residential area in Naranjito Municipio and will not alter the demographics or character of surrounding community. Project activities will not result in any direct or indirect displacement of individuals or families.</p>
Environmental Justice	2	<p>The project includes the new construction of three greenhouses. The project's direct and indirect impacts are limited to a small area on a single land parcel. The project will benefit the farm owner by constructing greenhouses for agricultural use and production. The project will not facilitate development that would negatively affect human health or result in disproportionate adverse environmental impacts to low-</p>

		income or minority populations see EJ Screen Report in Attachment 15).
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Environmental Assessment Factor	Impact Code	Impact Evaluation
<b>COMMUNITY FACILITIES AND SERVICES</b>		
Educational and Cultural Facilities	2	The project includes the new construction of three greenhouses on private land and will not contribute to any change in educational or cultural facilities or affect access to or capacity of educational or cultural facilities.
Commercial Facilities	2	The project includes the new construction of three greenhouses. The proposed project will increase agricultural production, resulting in a net positive impact to the applicant's farm commercial output and a positive benefit to surrounding commercial enterprises who purchase and sell the produce; however, the project will not put undue pressure on commercial facilities.
Health Care and Social Services	2	The project includes the new construction of three greenhouses on private land and will not affect access to or capacity of health care and social services.
Solid Waste Disposal / Recycling	2	The project includes the new construction of three greenhouses. The proposed project may cause an increase in short-term generation of solid waste during construction. All construction debris will be disposed of at the proper facilities for the debris type (i.e., construction waste). The project will not contribute to long-term needs or changes to solid waste disposal and recycling.
Wastewater / Sanitary Sewers	2	The new construction of three new greenhouses will not result in significant changes to the property's current wastewater or sanitary sewer use. No sewage utilities will be installed or connected to this project. Only potable water will be used to irrigate the greenhouse. Wastewater generated will be limited to minimal runoff in the area of the project site. The use of fertilizer or pesticides are controlled by local and territorial regulations and are consistent with the current land use.

Water Supply	2	The project includes the new construction of three greenhouses. The proposed project activities are not expected to result in significant changes to water supply. The applicant will irrigate the three greenhouses through two existing aboveground cisterns located approximately 27 ft southwest and 82 ft southeast of the applicant's residence. All irrigation piping and connections to the greenhouses from the cisterns will use gravity to distribute water through aboveground surface lines. The applicant is applying for a permit from the Department of Natural and Environmental Resources (DNER) to eventually use Rio Mavilla, which runs through his property, to water his crops.
Public Safety - Police, Fire and Emergency Medical	2	The project includes the new construction of three greenhouses on private land and will not affect public safety concerns such as police, fire, and emergency medical services.
Parks, Open Space and Recreation	2	The project includes the new construction of three greenhouses on private land and will not result in any changes to access or use of parks, open space, and recreation areas.
Transportation and Accessibility	2	The project includes the new construction of three greenhouses on private land and have no relation to transportation services. The proposed activities will not result in any changes in transportation and accessibility.

Environmental Assessment Factor	Impact Code	Impact Evaluation
<b>NATURAL FEATURES</b>		
Unique Natural Features, Water Resources	2	The project includes the new construction of three greenhouses. Rio Mavilla runs along the eastern and southeastern boundary of the applicant's property. No construction or project activities will occur within the waterbody or affect quality or access to Rio Mavilla. The project will minimize any potential impacts by requiring applicant contractors to use appropriate best management practices (including proper site management, implementation and maintenance of

		erosion and sedimentation control measures, and soil stabilization) during construction activities.
Vegetation, Wildlife	2	The project includes the new construction of three greenhouses. The project area has already been previously disturbed for residential home placement and farm operations; therefore, the project is not anticipated to result in any new impacts to trees, vegetation, wildlife or native plant communities. Pruning of vegetation may be necessary, but no tree clearing anticipated prior to greenhouse construction.
Environmental Assessment Factor	Impact Code	Impact Evaluation
<b>CLIMATE AND ENERGY</b>		
Climate Change Impacts	2	<p>The project includes the new construction of three greenhouses. The proposed ReGrow program project aims to increase resiliency in the agricultural industry to prepare for future climate related disasters, including drought. The Climate Mapping for Resilience and Adaptation Assessment tool (<a href="https://resilience.climate.gov/#assessment-tool">https://resilience.climate.gov/#assessment-tool</a>) provides historical and future climate data for five common climate-related hazards (extreme heat, drought, wildfires, flooding, and coastal inundation). The data model for the census tract that includes application location does not indicate a significant increase in hazard risks from climate change for drought, wildfire, or flooding, when comparing historical data (1976-2005) to future projections. The model projects a greater number of days where temperatures will exceed 90 degrees Fahrenheit after 2015, which is a systemic trend in the model across the Island.</p> <p>The specific activities proposed for this economic development project are limited in scale and land impacts. The proposed greenhouse construction activities are for individual farm use and will not result in a significant increase in electricity or water draw.</p>
Energy Efficiency	2	The project will not result in significant additional energy consumption as it involves only the construction of three greenhouses using self-powered construction equipment on an existing farm and will not require any expansion to existing power facilities.

**Additional Studies Performed:**

No additional studies were performed.

**Field Inspection** (Date and completed by):

Field inspection completed on May 30, 2023, by Delise Torres-Ortiz, SWCA Environmental Consultants.

**List of Sources, Agencies and Persons Consulted** [40 CFR 1508.9(b)]:

Department of Economic Development and Commerce. 2023. Sole Incidental Operational Permit for Cutting, Pruning, Transplanting and Tree System Authorization. Permits Management Office. Accessed March 3, 2023. Available at: <https://www.ddec.pr.gov/en/permits-management-office>.

Department of Natural and Environmental Resources (DNER). 2023a. Puerto Rico State Wildlife Action Plan a Ten-Year Review. Accessed March 1, 2023. Available at: <https://arcg.is/1DmOy1>.

DNER. 2023b. Puerto Rico DNER Species Ranges – under construction. Accessed June 21, 2023. Available at: <https://arcg.is/1S9aju0>.

Federal Aviation Administration (FAA). 2022. National Plan for Integrated Airport Systems 2023-2027. Accessed January 31, 2023. Available at: [National Plan of Integrated Airport Systems \(NPIAS\) 2023-2027, Appendix B: National and State Maps \(faa.gov\)](#).

Federal Emergency Management Agency (FEMA). 2023. FEMA Flood Map Service Center - Map Panel 72000C0695H (effective date 4/19/2005). Accessed March 1, 2023. Available at: <https://msc.fema.gov/portal/home>.

Institute of Puerto Rican Culture (ICP). 2023. San Juan, Puerto Rico. Data collection conducted on June 2, 2023.

National Oceanic and Atmospheric Administration (NOAA) Office for Coastal Management. 2023. Puerto Rico Coastal Zone Boundary. Accessed March 1, 2023. Available at: [Puerto Rico Coastal Vulnerability Viewer \(arcgis.com\)](#).

State Historic Preservation Office (SHPO). 2023. San Juan, Puerto Rico. Data collection conducted on June 6, 2023.

U.S. Environmental Protection Agency (USEPA). 2022a. Envirofacts Mapper. Air pollution data (ICIS-AIR), Brownfields, Hazardous Waste (RCRAInfo), Superfund National Priorities List (NPL), Toxic Releases Inventory (TRI), and National Pollutants Discharge Elimination Systems (NPDES). Accessed November 1, 2022. Available at: <https://geopub.epa.gov/arcgis/rest/services/EMEF/efpoints/MapServer>.

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USEPA. 2023b. EJScreen: Environmental Justice Screening and Mapping Tool. Accessed July 3, 2023. Available at: <https://www.epa.gov/ejscreen/download-ejscreen-data>.

U.S. Fish and Wildlife Service (USFWS). 2019. Coastal Barrier Resources System. Accessed January 31, 2023. Available at: <https://www.fws.gov/CBRA/Maps/Mapper.html>.

USFWS. 2023a. Information for Planning and Consultation (IPaC). Accessed June 21, 2023. Available at: <https://ipac.ecosphere.fws.gov/location/index>.

USFWS. 2023b. Critical Habitat for Threatened & Endangered Species. Accessed June 27, 2023. Available at: <https://fws.maps.arcgis.com/home/webmap/viewer.html?webmap=9d8de5e265ad4fe09893cf75b8dbfb77>.

USFWS. 2023c. National Wetlands Inventory Surface Waters and Wetlands Mapper. Accessed March 1, 2023. Available at: <https://fwsprimary.wim.usgs.gov/wetlands/apps/wetlands-mapper/>.

U.S. Forest Service. 2022. National Wild and Scenic River Segments. Accessed January 31, 2023. Available at: <https://www.rivers.gov/mapping-gis.php>; [Wild & Scenic Rivers | US Forest Service \(usda.gov\)](#).

U.S. Geological Survey (USGS). 2022. Concentration of Landslides caused by Hurricane Maria, Puerto Rico. Accessed March 1, 2023. Available at: [U.S. Landslide Inventory \(arcgis.com\)](#).

### **List of Permits Obtained:**

No permits have been obtained.

### **Public Outreach [24 CFR 58.43]:**

Puerto Rico Department of Agriculture has worked closely with the agricultural community. In compliance with the National Environmental Policy Act (NEPA) regulations for HUD, the public will be notified of the project through publication of the combined Finding of No Significant Impact (FONSI) – Notice of Intent to Request Release of Funds (NOI-RROF) notice with a 15-day public comment period (see **Appendix D**- Finding of No Significant Impact and Notice of Intent to Request Release of Funds).

### **Cumulative Impact Analysis [24 CFR 58.32]:**

The construction of three greenhouses at the project site is not anticipated to have a negative impact on environmental resources. None of the environmental assessment factors nor the regulations reviewed in the above checklist resulted in negative environmental impacts or the need for mitigation. Overall, the project will have a net

positive impact by helping a small business increase their capacity for agricultural production. No other planned or ongoing projects were identified in the project vicinity that could contribute to cumulative impacts of environmental resources.

**Alternatives** [24 CFR 58.40(e); 40 CFR 1508.9]

Alternative 1 Relocation of Greenhouses 1 and 2 - Constructing greenhouses on other areas of the property – Alternative locations on the property that are not in proximity to a wetland area include the north and northwest portions of the property. This alternative would eliminate the potential for impacts to wetlands; however, as supported by photo interpretation of ortho imagery, Rio Mavilla is south southeast of the project footprint and, while it is in proximity to the project area, direct impact is not anticipated. None of the greenhouses will be located within Rio Mavilla. Additionally, these alternative areas are covered in dense vegetation and would require tree clearing to construct a greenhouse. The optimal locations for constructing the three greenhouses are the open areas in the central and southeastern portions of the parcel since these areas will only require minimal ground disturbance.

Alternative 2 Reduction in Scope - Not constructing Greenhouses 1 and 2 and instead only constructing greenhouse 3, located in the central portion of the property would eliminate the potential for impacts to wetlands; however, as supported by photo interpretation of ortho imagery, Rio Mavilla is south southeast of the project footprint and, while it is in proximity to the project area, direct impact is not anticipated. None of the greenhouses will be located within Rio Mavilla. If the applicant only constructed Greenhouse 3, he could not improve his agricultural production as well as he could with multiple greenhouses. His business and agricultural production on Puerto Rico would suffer.

**No Action Alternative** [24 CFR 58.40(e)]:

Under the No Action Alternative, the applicant would not receive federal funding to construct three new greenhouses. Consequently, the applicant may not be able to recover and continue agricultural production. Given the degree of need for greater agricultural capacity in Puerto Rico following Hurricanes Irma and María, the costs of foregoing the project would exceed the benefits.

**Summary of Findings and Conclusions:**

The proposed project would not result in any adverse impacts to the surrounding natural, historical, and water resources; generate significant air or noise pollution; or promote environmental or socioeconomic injustices. The proposed project is not located within a coastal zone or near a major water resource.

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

Summarize below 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, Authority, or Factor	Mitigation Measure
<p><b>Endangered Species</b> Endangered Species Act of 1973, particularly section 7; 50 CFR Part 402</p>	<p><i>General Condition:</i> The current project activities do not involve the removal of trees. If any tree clearing is to be proposed, the project will need to be re-evaluated for impacts to threatened and endangered species.</p> <p>If a Puerto Rican Boa (Boa) is found in the project activity site, work shall cease until the Boa moves off site on its own. If the Boa does not move off site, the construction manager shall contact the Puerto Rico DNER to relocate the Boa. The USFWS has developed the following conservation measures for the Boa:</p> <ol style="list-style-type: none"> <li>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.</li> <li>2. 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.</li> <li>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</li> </ol>

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.

	<p>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.</p> <p>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.</p> <p>10. Projects must comply with all state laws and regulations. Please contact the PRDNER for further guidance.</p>
<p><b>Historic Preservation</b> National Historic Preservation Act of 1966, particularly sections 106 and 110; 36 CFR Part 800</p>	<p><i>General Condition:</i> If historic properties are discovered, unanticipated effects on historic properties are found, or cultural materials are encountered, work should cease in the immediate area; work can continue where no historic properties or cultural materials are present. Please contact PRDOH to consult on further actions that may be necessary to protect historic properties or cultural materials.</p>
<p><b>Wetlands Protection</b>  Executive Order 11990, particularly sections 2 and 5</p>	<p>An Early wetland notice was published on 11/06/2023 with the subsequent Final wetland notice published on 06/03/2024; no comments were received. Best management practices, such as proper site management, implementation and maintenance of erosion and sedimentation control measures, and soil stabilization will be followed to minimize potential impacts to wetlands.</p>
<p>Vegetation, Wildlife</p>	<p>DNER authorization is required for tree clearing or pruning. The landowner and/or the contractor will contact the Permit Management Office to</p>

	determine permits and authorizations required prior to construction.
Conformance with Plans / Compatible Land Use and Zoning / Scale and Urban Design	The proposed action is continued agricultural use of property, which is compatible with the existing land use. The applicant and/or construction manager is required to obtain any necessary local and territorial building and environmental permits prior to construction activities commencing.
Soil Suitability/ Slope/ Erosion/ Drainage/ Storm Water Runoff	Soil suitability will be assessed prior to construction. Contractors will be required to use best management practices during construction if erosion impacts will occur. Department of Natural and Environmental Resources (DNER) authorization may be required for any extraction, removal, excavation, and dredging of the components of the earth's crust.
Hazards and Nuisances including Site Safety and Noise	Contractors will be required to provide health and safety plans and monitoring during construction. Contractors will be required to comply with the applicable local noise ordinances. Noise impacts will be mitigated by restricting construction activities to daylight hours and to the hours established in the Regulation for Noise Control and Pollution in Puerto Rico.
Solid Waste Disposal / Recycling	All construction debris will be disposed of at the proper facilities for the debris type (i.e. construction waste).
Water Supply	The applicant is required to obtain authorization (local permits) prior to drawing water from the riverine.

**Determination:**

**Finding of No Significant Impact** [24 CFR 58.40(g)(1); 40 CFR 1508.27]

The project will not result in a significant impact on the quality of the human environment.

**Finding of Significant Impact** [24 CFR 58.40(g)(2); 40 CFR 1508.27]

The project may significantly affect the quality of the human environment.

Preparer Signature:  Date: 23 October 2024

Name/Title/Organization: Heath Anderson, Ph.D., Deputy Project Manager  
SWCA Environmental Consultants

Certifying Officer Signature:  Date: 10/29/2024

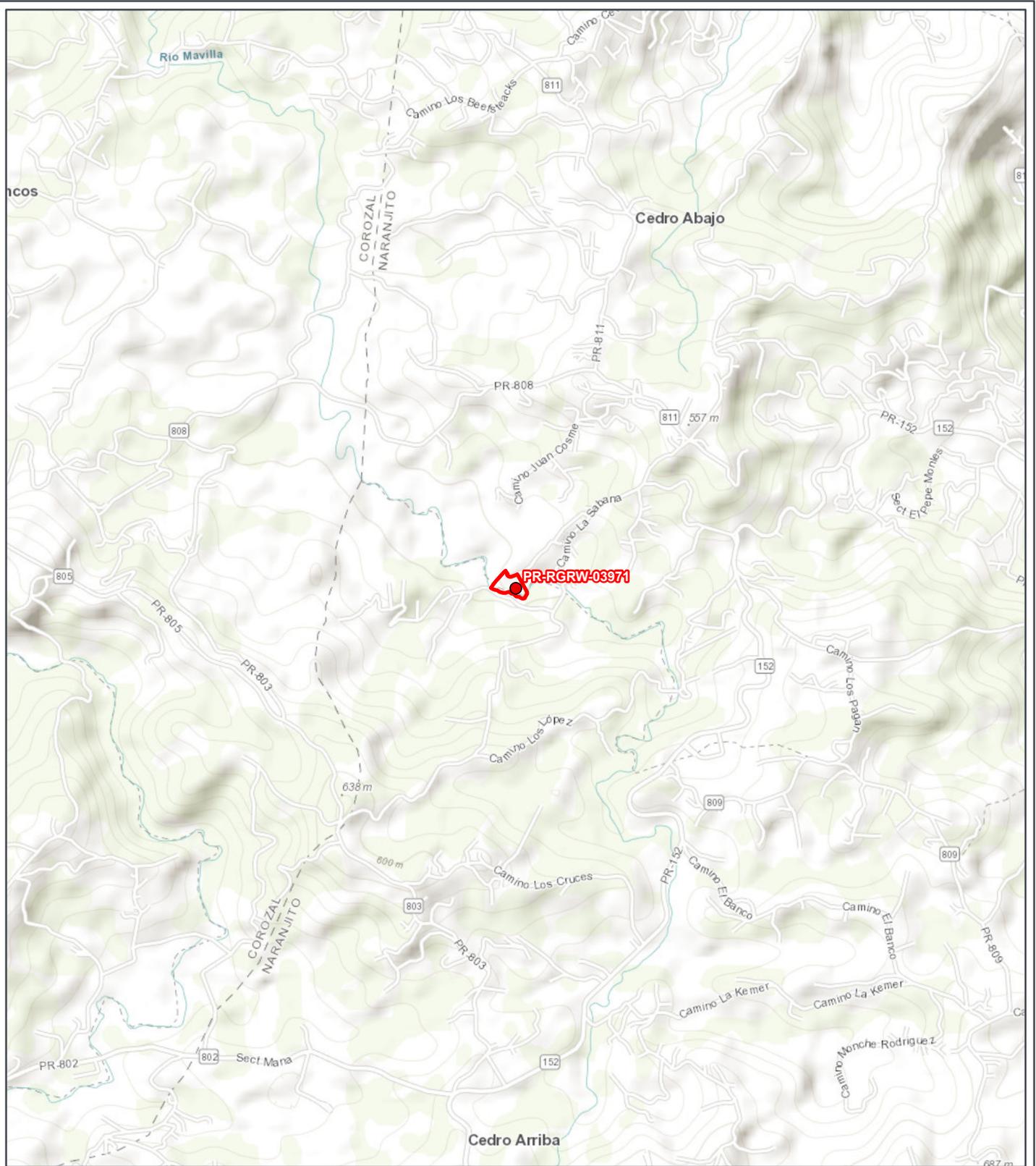
Name/Title: Limary Vélez Marrero / Permits and Environmental Compliance Specialist

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

# Appendix A

## Project Overview Figures

**Figure 1**  
**Site Location Map**



REGROW PROGRAM

**Figure A-1:  
Site Location**

Applicant ID: PR-RGRW-03971

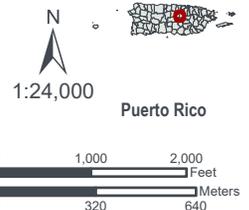


- Site
- Site Parcel

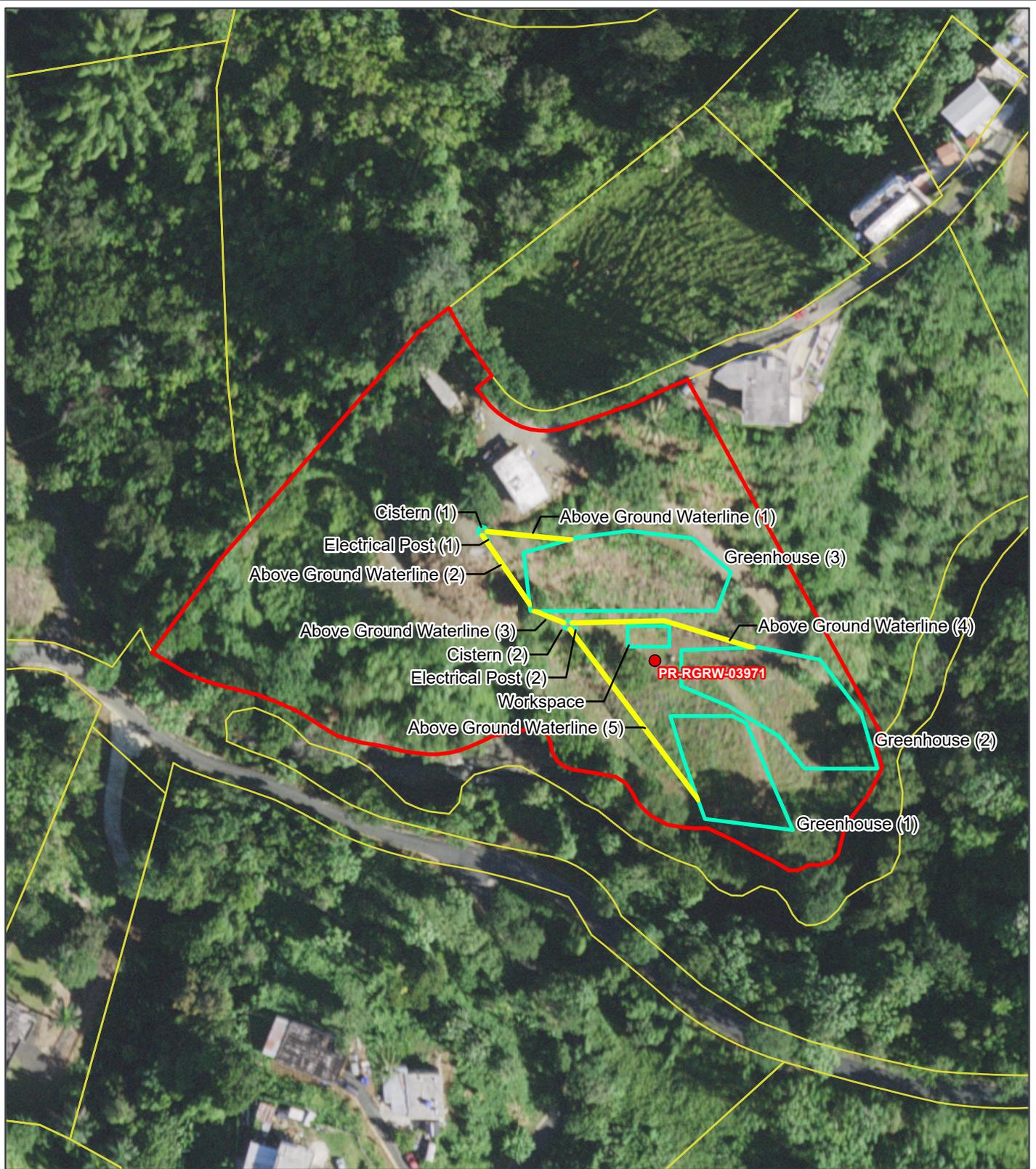
Carr 811 Km 0.6 Int Bo. Cedro Abajo, Sector Sabana Naranjito, Puerto Rico 00719

Parcel ID: 168-095-160-33-000  
18.279655, -66.281036

Base Map: ESRI ArcGIS Online, accessed June 2023  
Updated: 6/27/2023  
Layout: Site Location  
Aprx: 72428\_ReGrowTier2Maps



**Figure 2**  
**Site Vicinity Map**



REGROW PROGRAM

**Figure A-2:  
Site Vicinity**

Applicant ID: PR-RGRW-03971



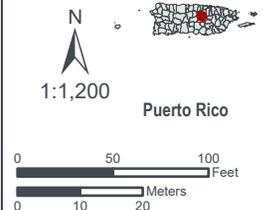
- Site
- ▭ Site Parcel
- ▭ Project Footprint (Option)
- ▭ Above Ground Utilities Location

Carr 811 Km 0.6 Int Bo. Cedro  
Abajo, Sector Sabana  
Naranjito, Puerto Rico 00719

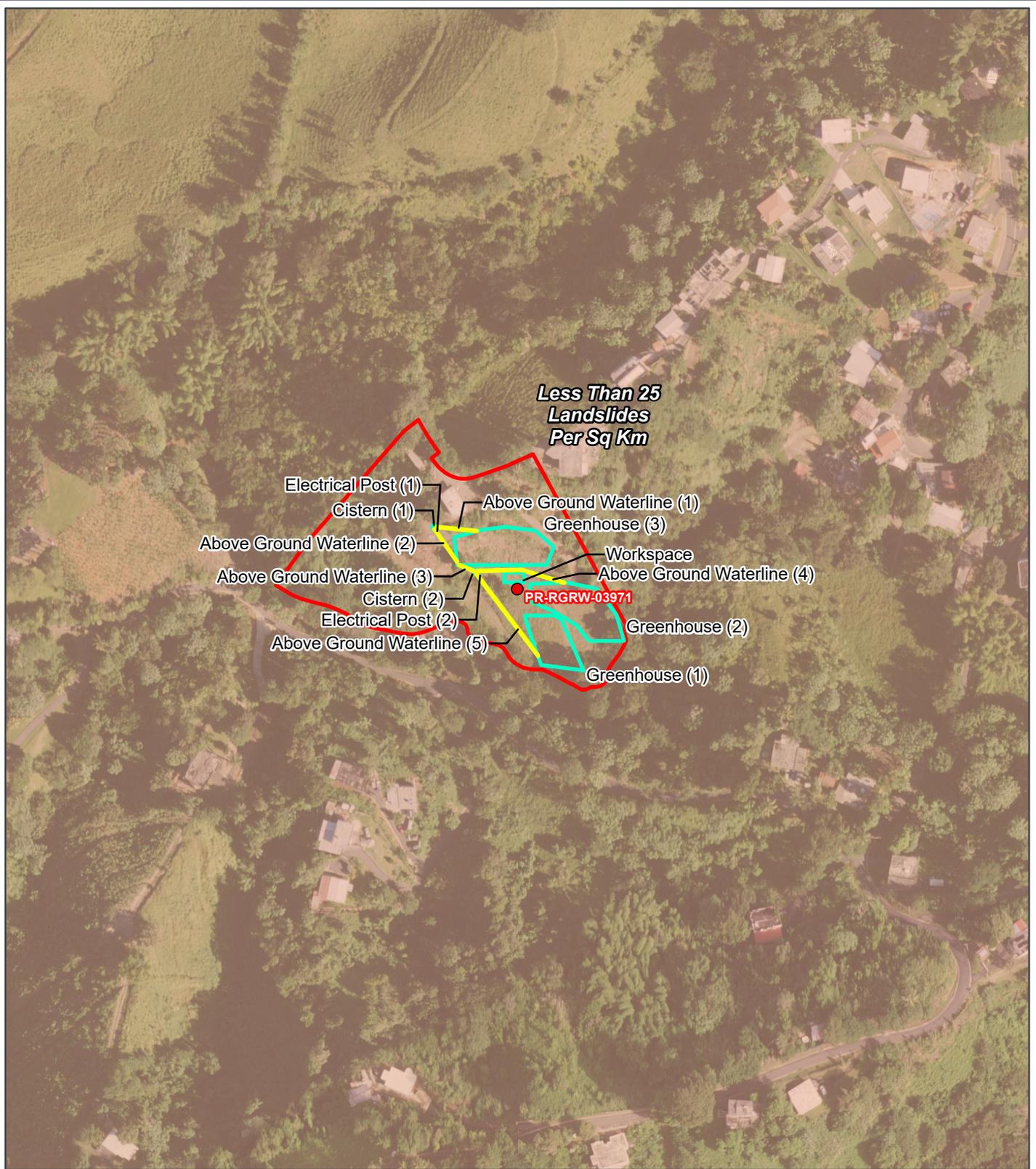
Parcel ID: 168-095-160-33-000  
18.279655, -66.281036

Base Map: USA NAIP Imagery  
Imagery Year: 2022  
Updated: 6/21/2024

Layout: Site Vicinity  
Aprx: 72428\_ReGrowTier2Maps



**Figure 3**  
**USGS Landslide Map**



REGROW PROGRAM

**Figure A-3:  
USGS Landslide Map**

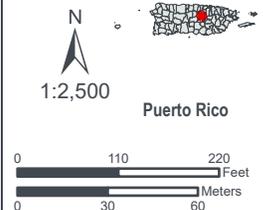
Applicant ID: PR-RGRW-03971



- Site
- ▭ Site Parcel
- ▭ Project Footprint (Option)
- ▭ Above Ground Utilities Location
- ▭ Greater than 25 Landslides per sq km
- ▭ Less than 25 Landslides per sq km
- ▭ No Landslides
- ▭ Not Examined

Carr 811 Km 0.6 Int Bo. Cedro  
Abajo, Sector Sabana  
Naranjito, Puerto Rico 00719  
Parcel ID: 168-095-160-33-000  
18.279655, -66.281036

Data Source: [https://arcgis.cuahsi.org/arcgis/rest/services/MariaRAPID/Hurricane\\_Maria\\_Landslides/MapServer](https://arcgis.cuahsi.org/arcgis/rest/services/MariaRAPID/Hurricane_Maria_Landslides/MapServer)  
Base Map: USA NAIP Imagery  
Imagery Year: 2022  
Updated: 6/21/2024  
Layout: Landslide



**Appendix B**  
**Attachments and Supporting**  
**Documentation**

**Attachment 1**

**Airport Hazards Partner Worksheet and**

**Airport Hazards Map**



**U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT**  
WASHINGTON, DC 20410-1000

This Worksheet was designed to be used by those “Partners” (including Public Housing Authorities, consultants, contractors, and nonprofits) who assist Responsible Entities and HUD in preparing environmental reviews, but legally cannot take full responsibilities for these reviews themselves. Responsible Entities and HUD should use the RE/HUD version of the Worksheet.

## **Airport Hazards (CEST and EA) – PARTNER**

<https://www.hudexchange.info/environmental-review/airport-hazards>

**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 → *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide a map showing that the site is not within the applicable distances to a military or civilian airport.*

Yes → *Continue to Question 2.*

**2. Is your project located within a Runway Potential Zone/Clear Zone (RPZ/CZ) or Accident Potential Zone (APZ)?**

Yes, project is in an APZ → *Continue to Question 3.*

Yes, project is an RPZ/CZ → *Project cannot proceed at this location.*

No, project is not within an APZ or RPZ/CZ

→ *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Continue to the Worksheet Summary below. Provide a map showing that the site is not within either zone.*

**3. Is the project in conformance with DOD guidelines for APZ?**

Yes, project is consistent with DOD guidelines without further action.

→ *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide any documentation supporting this determination.*

No, the project cannot be brought into conformance with DOD guidelines and has not been approved. → *Project cannot proceed at this location.*

**If mitigation measures have been or will be taken, explain in detail the proposed measures that must be implemented to mitigate for the impact or effect, including the timeline for implementation.**

Click here to enter text.

→ *Work with the RE/HUD to develop mitigation measures. Continue to the Worksheet Summary below. Provide any documentation supporting this determination.*

### **Worksheet Summary**

Provide a full description of your determination and a synopsis of the information that it was based on, such as:

- Map panel numbers and dates
- Names of all consulted parties and relevant consultation dates
- Names of plans or reports and relevant page numbers
- Any additional requirements specific to your program or region

### **Include all documentation supporting your findings in your submission to HUD.**

The project site is not within 2,500 feet (ft) of a civil primary or commercial service airport or within 15,000 ft of a military airport. The nearest civil primary or commercial service airport, Fernando Luis Ribas Dominicci, is located 88,089 ft (17 miles) from the project site. The nearest military airport, Luis Munoz Marin International Airport, is located 108,181 ft (20 miles) from the project site. Project activities are therefore an exempt activity. No further evaluation is required. The project is in compliance with airport hazards requirements.



REGROW PROGRAM

**Figure B 1-1:  
Airport Hazards Map**

Applicant ID: PR-RGRW-03971



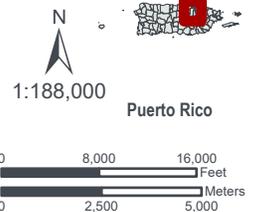
- Site
- Airport Runway
- Accident Potential Zones (APZ)
- Runway Protection Zones (RPZ)
- 2,500-FT Civil Airport Buffer
- 15,000-FT Military Airport Buffer

Carr 811 Km 0.6 Int Bo. Cedro Abajo, Sector Sabana Naranjito, Puerto Rico 00719

Parcel ID: 168-095-160-33-000  
18.279655, -66.281036

Data Source: <https://geodata.bls.gov/>  
Base Map: ESRI ArcGIS Online, accessed June 2023

Updated: 6/27/2023  
Layout: Airport Hazards  
Aprx: 72428\_ReGrowTier2Maps



## Attachment 2

# Coastal Barrier Resources Act Partner Worksheet and Coastal Barrier Resources Map



**U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT**  
WASHINGTON, DC 20410-1000

This Worksheet was designed to be used by those “Partners” (including Public Housing Authorities, consultants, contractors, and nonprofits) who assist Responsible Entities and HUD in preparing environmental reviews, but legally cannot take full responsibilities for these reviews themselves. Responsible Entities and HUD should use the RE/HUD version of the Worksheet.

## Coastal Barrier Resources (CEST and EA) – PARTNER

<https://www.hudexchange.info/environmental-review/coastal-barrier-resources>

Projects located in the following states must complete this form.

Alabama	Georgia	Massachusetts	New Jersey	Puerto Rico	Virgin Islands
Connecticut	Louisiana	Michigan	New York	Rhode Island	Virginia
Delaware	Maine	Minnesota	North Carolina	South Carolina	Wisconsin
Florida	Maryland	Mississippi	Ohio	Texas	

### 1. Is the project located in a CBRS Unit?

- No → *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide a map showing that the site is not within a CBRS Unit.*
- Yes → *Continue to 2.*

Federal assistance for most activities may not be used at this location. You must either choose an alternate site or cancel the project. In very rare cases, federal monies can be spent within CBRS units for certain exempted activities (e.g., a nature trail), after consultation with the Fish and Wildlife Service (FWS) (see [16 USC 3505](#) for exceptions to limitations on expenditures).

### 2. Indicate your recommended course of action for the RE/HUD

- Consultation with the FWS
- Cancel the project

### **Worksheet Summary**

Provide a full description of your determination and a synopsis of the information that it was based on, such as:

- Map panel numbers and dates
- Names of all consulted parties and relevant consultation dates
- Names of plans or reports and relevant page numbers
- Any additional requirements specific to your program or region

### **Include all documentation supporting your findings in your submission to HUD.**

The project site is not located in a Coastal Barrier Resource Systems Unit (CBRS) or Otherwise Protected Area (OPA). The closest CBRS unit or OPA, Punta Salinas, is located 73,760 feet (14 miles) from the



**U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT**  
WASHINGTON, DC 20410-1000

This Worksheet was designed to be used by those “Partners” (including Public Housing Authorities, consultants, contractors, and nonprofits) who assist Responsible Entities and HUD in preparing environmental reviews, but legally cannot take full responsibilities for these reviews themselves. Responsible Entities and HUD should use the RE/HUD version of the Worksheet.

project site. Project activities are therefore an exempt activity. No further evaluation is required. The project is in compliance with the Coastal Barrier Resources Act.



REGROW PROGRAM

**Figure B 2-1: Coastal Barrier Resources Map**

Applicant ID: PR-RGRW-03971

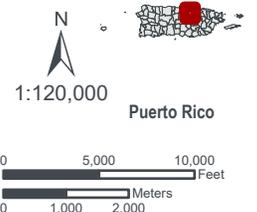


- Site
- Otherwise Protected Area
- System Unit

Carr 811 Km 0.6 Int Bo. Cedro Abajo, Sector Sabana Naranjito, Puerto Rico 00719

Parcel ID: 168-095-160-33-000  
18.279655, -66.281036

Data Source: <https://cbrgis.wim.usgs.gov/arcgis/rest/services/CoastalBarrierResourcesSystem/MapServer/BaseMap>; ESRI ArcGIS Online, accessed June 2023  
Updated: 6/27/2023  
Layout: Coastal Barrier Resources System



## **Attachment 3**

# **Flood Insurance Partner Worksheet and Flood Insurance Rate Map**



U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT  
WASHINGTON, DC 20410-1000

This Worksheet was designed to be used by those “Partners” (including Public Housing Authorities, consultants, contractors, and nonprofits) who assist Responsible Entities and HUD in preparing environmental reviews, but legally cannot take full responsibilities for these reviews themselves. Responsible Entities and HUD should use the RE/HUD version of the Worksheet.

## Flood Insurance (CEST and EA) – PARTNER

<https://www.hudexchange.info/environmental-review/flood-insurance>

**1. Does this project involve mortgage insurance, refinance, acquisition, repairs, rehabilitation, or construction of a structure, mobile home, or insurable personal property?**

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

→ Continue to the Worksheet Summary.

Yes → Continue to Question 2.

**2. Provide a FEMA/FIRM map showing the site.**

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).

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

No → Continue to the Worksheet Summary.

Yes → Continue to Question 3.

**3. Is the community participating in the National Flood Insurance Program or has less than one year passed since FEMA notification of Special Flood Hazards?**

Yes, the community is participating in the National Flood Insurance Program.

Flood insurance is required. Provide a copy of the flood insurance policy declaration or a paid receipt for the current annual flood insurance premium and a copy of the application for flood insurance.

→ Continue to the Worksheet Summary.

Yes, less than one year has passed since FEMA notification of Special Flood Hazards.

If less than one year has passed since notification of Special Flood Hazards, no flood insurance is required.

→ Continue to the Worksheet Summary.

No. The community is not participating, or its participation has been suspended.

Federal assistance may not be used at this location. Cancel the project at this location.

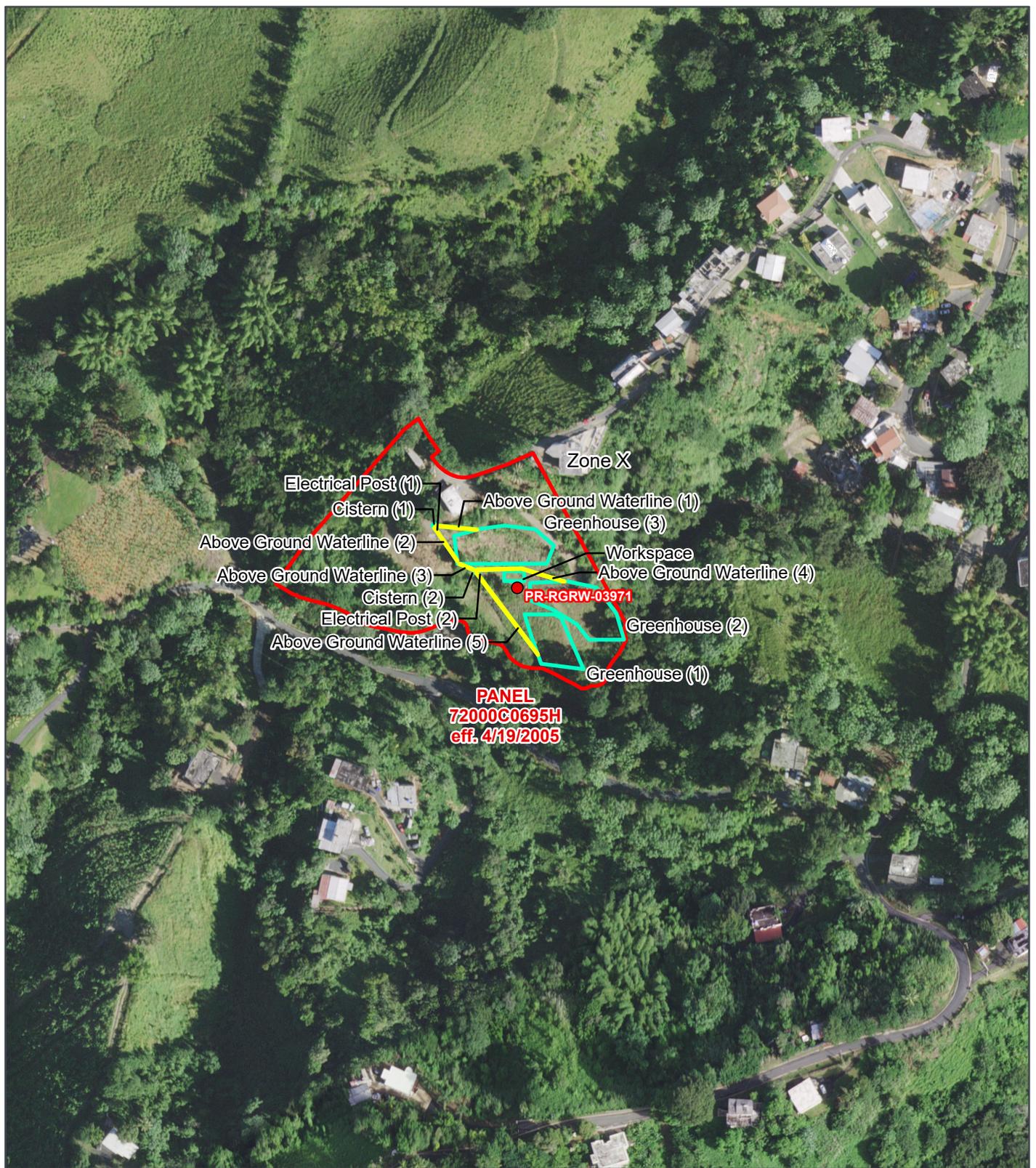
### **Worksheet Summary**

Provide a full description of your determination and a synopsis of the information that it was based on, such as:

- Map panel numbers and dates
- Names of all consulted parties and relevant consultation dates
- Names of plans or reports and relevant page numbers
- Any additional requirements specific to your program or region

### **Include all documentation supporting your findings in your submission to HUD.**

A review of the FEMA Flood Insurance Rate Map (FIRM), Community Panel 72000C0695H (effective date 4/19/2005), shows the project site is in Flood Zone X, which is not in a Special Flood Hazard Area (SFHA). Flood insurance is not required. No further evaluation is required. The project is in compliance with the Flood Disaster Protection Act and National Flood Insurance Reform Act.



REGROW PROGRAM

### Figure B 3-1: Flood Insurance Rate Map (FIRM)

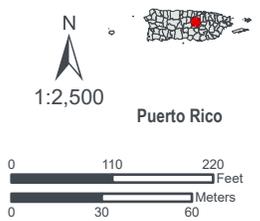
Applicant ID: PR-RGRW-03971



- Site
- Site Parcel
- Project Footprint (Option)
- Above Ground Utilities Location
- Base Flood Elevations
- Zone A
- Zone AE
- Zone AH
- Zone AO
- Zone VE
- Floodway
- Zone X - Shaded (500-year floodplain)
- Zone X - Unshaded
- Area Not Included
- Open Water

Carr 811 Km 0.6 Int Bo. Cedro Abajo, Sector Sabana Naranjito, Puerto Rico 00719  
Parcel ID: 168-095-160-33-000  
18.279655, -66.281036

Data Source: <https://hazards.fema.gov/gis/nfhl/rest/services/public/NFHL/MapServer>  
Base Map: USA NAIP Imagery  
Imagery Year: 2022  
Updated: 6/21/2024  
Layout: Effective Floodplain  
Aprx: 72428\_ReGrowTier2Maps



## Attachment 4

**Air Quality Partner Worksheet, List of Non-Attainment/Maintenance Status Counties in Puerto Rico, and Clean Air Map**



**U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT**  
WASHINGTON, DC 20410-1000

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## **Air Quality (CEST and EA) – PARTNER**

<https://www.hudexchange.info/environmental-review/air-quality>

- 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 → Continue to Question 2.

No → If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Provide any documents used to make your determination.

- 2. Is your project’s air quality management district or county in non-attainment or maintenance status for any criteria pollutants?**

Follow the link below to determine compliance status of project county or air quality management district:

<http://www.epa.gov/oaqps001/greenbk/>

No, project’s county or air quality management district is in attainment status for all criteria pollutants

→ If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide any documents used to make your determination.

Yes, project’s management district or county is in non-attainment or maintenance status for one or more criteria pollutants. → Continue to Question 3.

- 3. Determine the estimated emissions levels of your project for each of those criteria pollutants that are in non-attainment or maintenance status on your project area. Will your project exceed any of the *de minimis* or *threshold* emissions levels of non-attainment and maintenance level pollutants or exceed the screening levels established by the state or air quality management district?**

No, the project will not exceed *de minimis* or threshold emissions levels or screening levels

→ If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Explain how you determined that the project would not exceed *de minimis* or threshold emissions.

Yes, the project exceeds *de minimis* emissions levels or screening levels.

→ *Continue to Question 4. Explain how you determined that the project would not exceed de minimis or threshold emissions in the Worksheet Summary.*

**4. 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.**

[Click here to enter text.](#)

### **Worksheet Summary**

Provide a full description of your determination and a synopsis of the information that it was based on, such as:

- Map panel numbers and dates
- Names of all consulted parties and relevant consultation dates
- Names of plans or reports and relevant page numbers
- Any additional requirements specific to your program or region

### **Include all documentation supporting your findings in your submission to HUD.**

The project site is in Naranjito Municipio, which is within a U.S. Environmental Protection Agency (USEPA) designated attainment area. Municipios in Nonattainment or Maintenance areas include Arecibo, Bayamon, Catano, Guaynabo, Salinas, San Juan and Toa Baja. Project activities include new construction of three greenhouses. The project is not anticipated to have a negative impact on air quality and will not increase residential density. Emissions associated with the proposed actions are temporary and limited to the use of small construction equipment and will be well below the Federal General Conformity Rule *de minimis* thresholds. No further evaluation is required. The project is in compliance with the Clean Air Act.



You are here: EPA Home > Green Book > >National Area and County-Level Multi-Pollutant Information >Puerto Rico Nonattainment/Maintenance Status for Each County by Year for All Criteria Pollutants

## Puerto Rico Nonattainment/Maintenance Status for Each County by Year for All Criteria Pollutants

Data is current as of February 28, 2023

Listed by County, NAAQS, Area. The 8-hour Ozone (1997) standard was revoked on April 6, 2015 and the 1-hour Ozone (1979) standard was revoked on June 15, 2005.

\* The 1997 Primary Annual PM-2.5 NAAQS (level of 15 µg/m<sup>3</sup>) is revoked in attainment and maintenance areas for that NAAQS. For additional information see the PM-2.5 NAAQS SIP Requirements Final Rule, effective October 24, 2016. (81 FR 58009)

Change the State:

Important Notes

[Download National Dataset: dbf](#) | 
 [xls](#) | 
 [Data dictionary \(PDF\)](#)

County	NAAQS	Area Name	Nonattainment in Year	Redesignation to Maintenance	Classification	Whole or/ Part County	Population (2010)	State/ County FIPS Codes
<b>PUERTO RICO</b>								
Arecibo Municipio	Lead (2008)	Arecibo, PR	11121314151617181920212223	//		Part	32,185	72/013
Bayamon Municipio	Sulfur Dioxide (2010)	San Juan, PR	181920212223	//		Part	22,921	72/021
Catano Municipio	Sulfur Dioxide (2010)	San Juan, PR	181920212223	//		Whole	28,140	72/033
Guaynabo Municipio	PM-10 (1987)	Mun. of Guaynabo, PR	929394959697989900010203040506070809	02/11/2010	Moderate	Part	90,470	72/061
Guaynabo Municipio	Sulfur Dioxide (2010)	San Juan, PR	181920212223	//		Part	23,802	72/061
Salinas Municipio	Sulfur Dioxide (2010)	Guayama-Salinas, PR	181920212223	//		Part	23,401	72/123
San Juan Municipio	Sulfur Dioxide (2010)	San Juan, PR	181920212223	//		Part	147,963	72/127
Toa Baja Municipio	Sulfur Dioxide (2010)	San Juan, PR	181920212223	//		Part	52,441	72/137

Important Notes

Discover.

Connect.

Ask.

Follow.

2023-02-28



REGROW PROGRAM

**Figure B 4-1:  
Clean Air Map**

Applicant ID: PR-RGRW-03971



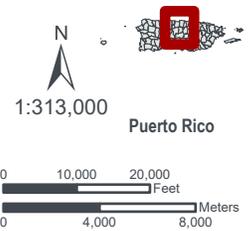
- Site
- ▨ 8-Hour Ozone (2015 Standard)\*
- Lead (2008 Standard)
- PM-2.5 (2012 Standard)\*
- Sulfur Dioxide (2010 Standard)

\*No Data in Puerto Rico

Carr 811 Km 0.6 Int Bo. Cedro  
Abajo, Sector Sabana  
Naranjito, Puerto Rico 00719

Parcel ID: 168-095-160-33-000  
18.279655, -66.281036

Data Source: [https://geopub.epa.gov/arcgis/rest/services/NEPAssist/NEPAVELayersPublic\\_fgdb/MapServer](https://geopub.epa.gov/arcgis/rest/services/NEPAssist/NEPAVELayersPublic_fgdb/MapServer)  
Base Map: ESRI ArcGIS Online, accessed June 2023  
Updated: 6/27/2023  
Layout: Clean Air  
Aprx: 72428\_ReGrowTier2Maps



## Attachment 5

# Coastal Zone Management Partner Worksheet and Coastal Zone Map



**U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT**  
WASHINGTON, DC 20410-1000

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## Coastal Zone Management Act (CEST and EA) – PARTNER

<https://www.onecpd.info/environmental-review/coastal-zone-management>

Projects located in the following states must complete this form.

Alabama	Florida	Louisiana	Mississippi	Ohio	Texas
Alaska	Georgia	Maine	New Hampshire	Oregon	Virgin Islands
American Samona	Guam	Maryland	New Jersey	Pennsylvania	Virginia
California	Hawaii	Massachusetts	New York	Puerto Rico	Washington
Connecticut	Illinois	Michigan	North Carolina	Rhode Island	Wisconsin
Delaware	Indiana	Minnesota	Northern Mariana Islands	South Carolina	

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

Yes → Continue to Question 2.

No → If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide a map showing that the site is not within a Coastal Zone.

**2. Does this project include activities that are subject to state review?**

Yes → Continue to Question 3.

No → If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide documentation used to make your determination.

**3. Has this project been determined to be consistent with the State Coastal Management Program?**

Yes, with mitigation. → The RE/HUD must work with the State Coastal Management Program to develop mitigation measures to mitigate the impact or effect of the project.

Yes, without mitigation. → If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide documentation used to make your determination.

No → Project cannot proceed at this location.

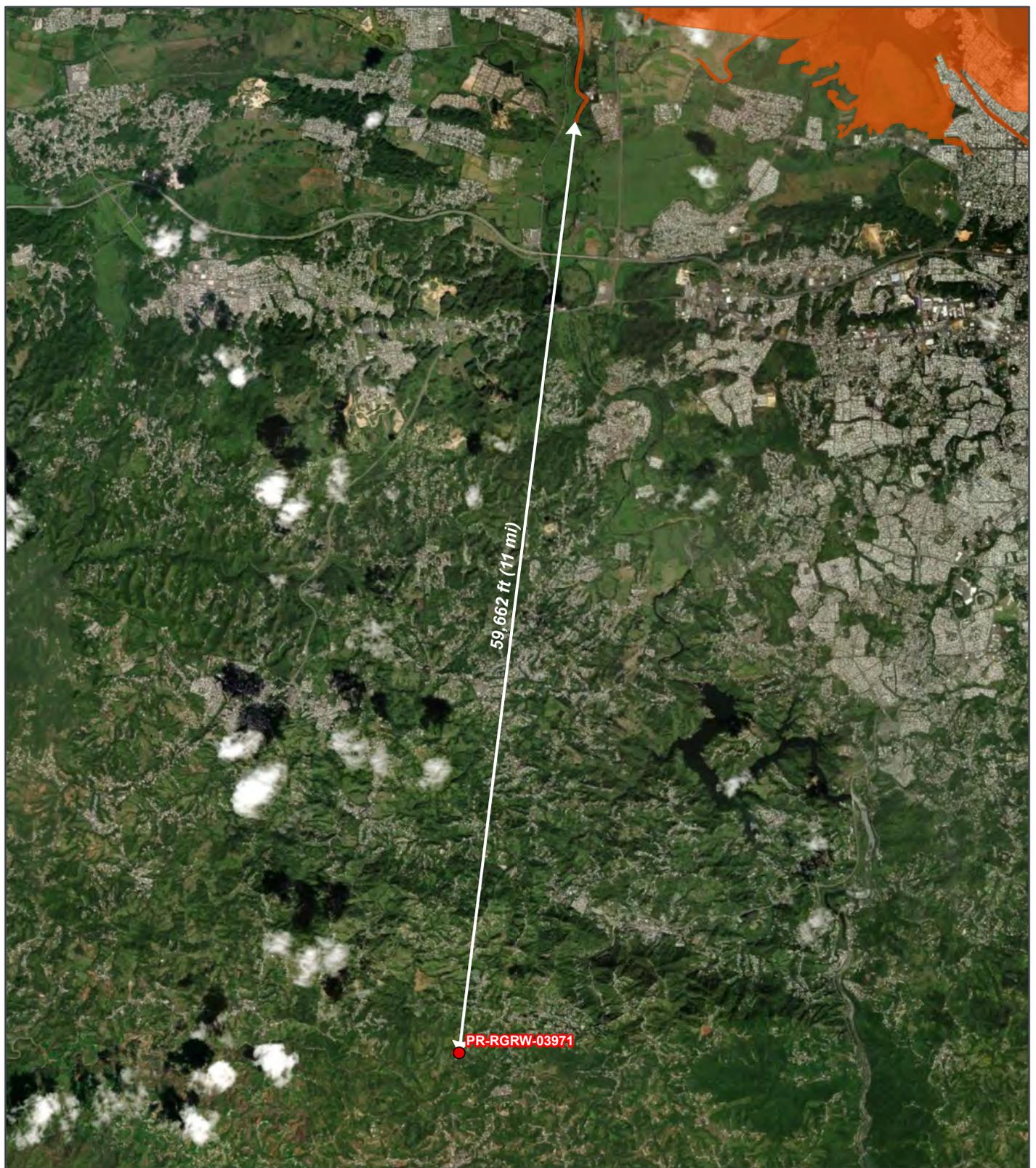
### **Worksheet Summary**

Provide a full description of your determination and a synopsis of the information that it was based on, such as:

- Map panel numbers and dates
- Names of all consulted parties and relevant consultation dates
- Names of plans or reports and relevant page numbers
- Any additional requirements specific to your program or region

### **Include all documentation supporting your findings in your submission to HUD.**

The project site is not located within the Puerto Rico Coastal Management Zone. The closest coastal zone area is located 59,662 feet (11 miles) from the project site. No further evaluation is required. The project is in compliance with the Coastal Zone Management Act.



REGROW PROGRAM

**Figure B 5-1: Coastal Zone Management Map**

Applicant ID: PR-RGRW-03971



- Site
- Coastal Management Zone

Carr 811 Km 0.6 Int Bo. Cedro Abajo, Sector Sabana Naranjito, Puerto Rico 00719

Parcel ID: 168-095-160-33-000  
18.279655, -66.281036

Data Source: <https://coast.noaa.gov/arcgis/rest/services/Hosted/CoastalZoneManagementAct/BaseMap>: ESRI ArcGIS Online, accessed June 2023  
Updated: 6/27/2023  
Layout: Coastal Zone Management  
Aprx: 72428\_ReGrowTier2Maps

N

1:106,000

Puerto Rico

0 4,000 8,000

Feet

0 1,000 2,000

Meters

## **Attachment 6**

**Contamination and Toxics Substances  
Partner Worksheet, Radon Agency  
Correspondence and Memorandum,  
and Map**



U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT  
WASHINGTON, DC 20410-1000

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## Contamination and Toxic Substances (Multifamily and Non-Residential Properties) – PARTNER

<https://www.hudexchange.info/programs/environmental-review/site-contamination>

**1. How was site contamination evaluated? <sup>1</sup> 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

→ Provide documentation and reports and include an explanation of how site contamination was evaluated in the Worksheet Summary.

Continue to Question 2.

**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?)**

- No → Explain below.

No toxic sites were identified within 3,000 feet of the project sites.

→ If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below.

- Yes → Describe the findings, including any recognized environmental conditions (RECs), in Worksheet Summary below. Continue to Question 3.

**3. Can adverse environmental impacts be mitigated?**

---

<sup>1</sup> 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.

Adverse environmental impacts cannot feasibly be mitigated → HUD assistance may not be used for the project at this site. Project cannot proceed at this location.

Yes, adverse environmental impacts can be eliminated through mitigation.  
→ *Provide all mitigation requirements<sup>2</sup> and documents. Continue to Question 4.*

**4. Describe how compliance was achieved. Include any of the following that apply: State Voluntary Clean-up Program, a No Further Action letter, use of engineering controls<sup>3</sup>, or use of institutional controls<sup>4</sup>.**

[Click here to enter text.](#)

**If a remediation plan or clean-up program was necessary, which standard does it follow?**

- Complete removal  
 Risk-based corrective action (RBCA)

→ *Continue to the Worksheet Summary.*

### **Worksheet Summary**

Provide a full description of your determination and a synopsis of the information that it was based on, such as:

- Map panel numbers and dates
- Names of all consulted parties and relevant consultation dates
- Names of plans or reports and relevant page numbers
- Any additional requirements specific to your program or region

### **Include all documentation supporting your findings in your submission to HUD.**

The project sites were evaluated for potential contamination by conducting a field site inspection on May 30, 2023 to identify any onsite hazards including, but not limited to, soil staining, above ground storage tanks, signs of underground storage tanks, odors, hazardous debris etc.

The site inspection did not identify any onsite hazards, stained soil or vegetation and the project is in compliance with contamination and toxic substances requirements.

HUD issued a notice effective April 11, 2024 for compliance in the consideration of radon for all projects receiving HUD funding. This applies to any structure associated with a HUD funded project where the intention is for the structure to be occupied for four or more hours a day. This project includes the

---

<sup>2</sup> Mitigation requirements include all clean-up actions required by applicable federal, state, tribal, or local law. Additionally, provide, as applicable, the long-term operations and maintenance plan, Remedial Action Work Plan, and other equivalent documents.

<sup>3</sup> Engineering controls are any physical mechanism used to contain or stabilize contamination or ensure the effectiveness of a remedial action. Engineering controls may include, without limitation, caps, covers, dikes, trenches, leachate collection systems, signs, fences, physical access controls, ground water monitoring systems and ground water containment systems including, without limitation, slurry walls and ground water pumping systems.

<sup>4</sup> Institutional controls are mechanisms used to limit human activities at or near a contaminated site, or to ensure the effectiveness of the remedial action over time, when contaminants remain at a site at levels above the applicable remediation standard which would allow for unrestricted use of the property. Institutional controls may include structure, land, and natural resource use restrictions, well restriction areas, classification exception areas, deed notices, and declarations of environmental restrictions.

construction of three greenhouses; therefore, it falls under the exemptions listed in "Considering radon in the environmental review" of the CPD memo.

In addition, a desktop review of USEPA databases, NEPAassist, and other sources was conducted to determine if the project site was located near dump sites, junk yards, landfills, hazardous waste sites, or industrial sites, including USEPA National Priorities List Sites (Superfund sites), CERCLA or state-equivalent sites, RCRA Corrective Action sites with release(s) or suspected release(s) requiring clean-up action and/or further investigation. The parcel has been used for agricultural purposes and there has been no change in land use in the last 20 years. The project is located in a rural area of Naranjito Municipio and will continue to be used for agricultural purpose.

The desktop review did not find any of the above-listed toxic, hazardous or radioactive substances in or within 3,000 feet of the project area. The project is in compliance with contamination and toxic substances requirements.

**Radon**  
**Attachments**



August 20, 2024

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

Via email: [guerrero.carmen@epa.gov](mailto:guerrero.carmen@epa.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.

This Notice emphasizes the importance of radon testing and mitigation 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, testing practices, and any mitigation efforts within the islands of Puerto Rico.

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

**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.

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

**Historical data** – 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.

Sincerely,

William O. Rodríguez Rodríguez, Esq.  
Secretary

Cc: [Mr. Oleg Povelko\\_Povelko.Oleg@epa.gov](mailto:Mr. Oleg Povelko_Povelko.Oleg@epa.gov)  
[Mr. Matthew Lantia\\_lantia.matthew@epa.gov](mailto:Mr. Matthew Lantia_lantia.matthew@epa.gov)



August 20, 2024

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

Via email: [silvina.cancelos@upr.edu](mailto:silvina.cancelos@upr.edu)

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Sincerely,

William O. Rodríguez Rodríguez, Esq.  
Secretary

Cc: [Dr. Carlos Marín\\_carlos.marin3@upr.edu](mailto:Dr. Carlos Marín_carlos.marin3@upr.edu)



August 20, 2024

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

Via email: [OIA@cdc.gov](mailto:OIA@cdc.gov)

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

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This Notice emphasizes the importance of radon testing and mitigation 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, testing practices, and any mitigation efforts within the islands of Puerto Rico.

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

**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 Dávila, Río Piedras, PR 00918 | PO Box 21365 San Juan, PR 00928-1365  
Tel. (787) 274-2527 | [www.viviendap.rg.pr.gov](http://www.viviendap.rg.pr.gov)

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.

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

**Historical data** – 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.

Sincerely,

  
William O. Rodríguez Rodríguez, Esq.  
Secretary



August 20, 2024

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

Via email: [anais.rodriguez@dma.pr.gov](mailto:anais.rodriguez@dma.pr.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.

This Notice emphasizes the importance of radon testing and mitigation 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, testing practices, and any mitigation efforts within the islands of Puerto Rico.

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

**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.viviendap.rg.pr.gov](http://www.viviendap.rg.pr.gov)

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

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

**Historical data** – If available, historical data or trends in radon levels within the regions you monitor that may impact HUD-assisted housing.

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Sincerely,

  
William O. Rodríguez Rodríguez, Esq.  
Secretary

Cc: Mr. Luis Márquez, [secretariogaire@dma.pr.gov](mailto:secretariogaire@dma.pr.gov)  
Eng. Amarilys Rosario, [aire@dma.pr.gov](mailto:aire@dma.pr.gov)  
Mrs. Elid Ortegá, [ortega@dma.pr.gov](mailto:ortega@dma.pr.gov)



August 20, 2024

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

Via email: [drCarlos.mellado@salud.pr.gov](mailto:drCarlos.mellado@salud.pr.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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Thank you in advance for your cooperation and support. We look forward to working together on this critical initiative.

Sincerely,

William O. Rodríguez Rodríguez, Esq.  
Secretary

Cc: Mr. Raúl Hernández Dabla, [rahernandez2@salud.pr.gov](mailto:rahernandez2@salud.pr.gov)



August 20, 2024

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

Via email: [hswyers@usgs.gov](mailto:hswyers@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.

This Notice emphasizes the importance of radon testing and mitigation 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, testing practices, and any mitigation efforts within the islands of Puerto Rico.

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

Sincerely,

William O. Rodríguez Rodríguez, Esq.  
Secretary

Cc: Mr. R. Randall Schumann, [rschumann@usgs.gov](mailto: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. Rodriguez 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  
Geosciences and Environmental Change Science Center  
Denver, Colorado, USA  
[rschumann@usgs.gov](mailto: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](mailto: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

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**From:** Silvina Cancelos Mancini <[silvina.cancelos@upr.edu](mailto:silvina.cancelos@upr.edu)>  
**Sent:** Friday, September 6, 2024 15:04  
**To:** Melanie Medina Smaine <[mmedina@vivienda.pr.gov](mailto:mmedina@vivienda.pr.gov)>  
**Cc:** Elaine Dume Mejia <[Edume@vivienda.pr.gov](mailto:Edume@vivienda.pr.gov)>; Luz S Colon Ortiz <[Lcolon@vivienda.pr.gov](mailto:Lcolon@vivienda.pr.gov)>; Aldo A. Rivera-Vazquez <[aarivera@vivienda.pr.gov](mailto:aarivera@vivienda.pr.gov)>; Maritza Rosa Olivares <[maritzarosaolivares@drna.pr.gov](mailto:maritzarosaolivares@drna.pr.gov)>; Reyes, Brenda <[Reyes.Brenda@epa.gov](mailto:Reyes.Brenda@epa.gov)>; Povetko, Oleg <[Povetko.Oleg@epa.gov](mailto:Povetko.Oleg@epa.gov)>  
**Subject:** Re: Request for Information- Randon testing and levels

Estimada Melanie Medina

Quería dejarte 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](mailto:silvina.cancelos@upr.edu)



Bubble Dynamics Lab  
University of Puerto Rico - Mayaguez



EPA REGION 2  
CARIBBEAN ENVIRONMENTAL PROTECTION DIVISION

September 23, 2024

**VIA EMAIL**

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

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

Dear Honorable Secretary Rodriguez Rodriguez:

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 pCi/L (picocuries per liter), perhaps locally reaching very high levels above 50 pCi/L, if a house construction and

ventilation allow for soil-gas radon to enter and concentrate within the structure.<sup>1</sup> 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 Irma 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, Aguadilla, Isabela, Quebradillas, Barceloneta and Vega Baja. The quality assurance protocols were anchored in American National Standards Institute/American Association of Radon Scientists and Technologists (ANSI/AARST) standards of practice (ANSI/AARS, 2019). 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 systems. 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 radon sampling professionals led by one such professional from 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.

Mapping radon in Puerto Rico proved to be a complicated endeavor given the COVID-19 pandemic in 2020. EPA and UPRM 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.

<sup>1</sup> 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>.

CITY VIEW PLAZA II BUILDING, 7<sup>TH</sup> FLOOR  
ROUTE 185 GUAYNABO, PR 00988

2

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

Sincerely,  
**CARMEN GUERRERO PEREZ**  
Carmen R. Guerrero Pérez  
Director

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

cc: Roberto Mendez, Esq (Acting Secretary, PR Department of Natural and Env. Resources)  
Melany Medina: [mmedina@vivienda.pr.gov](mailto:mmedina@vivienda.pr.gov)  
Elaine Dume Mejia: [Edume@vivienda.pr.gov](mailto:Edume@vivienda.pr.gov)  
Luz S Colon Ortiz: [Lcolon@vivienda.pr.gov](mailto:Lcolon@vivienda.pr.gov)  
Aldo A. Rivera-Vazquez: [aarivera@vivienda.pr.gov](mailto:aarivera@vivienda.pr.gov)  
Cesar O. Rodriguez: [cesarrodriiguez@drna.pr.gov](mailto:cesarrodriiguez@drna.pr.gov)  
Marita Rosa Olivares: [maritzarosaolivares@drna.pr.gov](mailto:maritzarosaolivares@drna.pr.gov)



**Memorandum to File**

**Date:** September 30, 2024

**From:** Heath Anderson, Ph.D.  
Deputy Program Manager  
CDBG-DR Program  
Re-Grow PR Urban-Rural Agriculture Program, Grant number B-17-DM-72-0001 &  
B-18-DP-72-0001  
Puerto Rico Department of Housing

**Application Number:** PR-RGRW-03971

**Project:** ALBERTO LUIS RIVERA RIVERA

**Re: Justification for the Infeasibility and Impracticability of Radon Testing**

After reviewing Application Number PR-RGRW-03971 under the Re-Grow PR Urban-Rural Agriculture 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 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

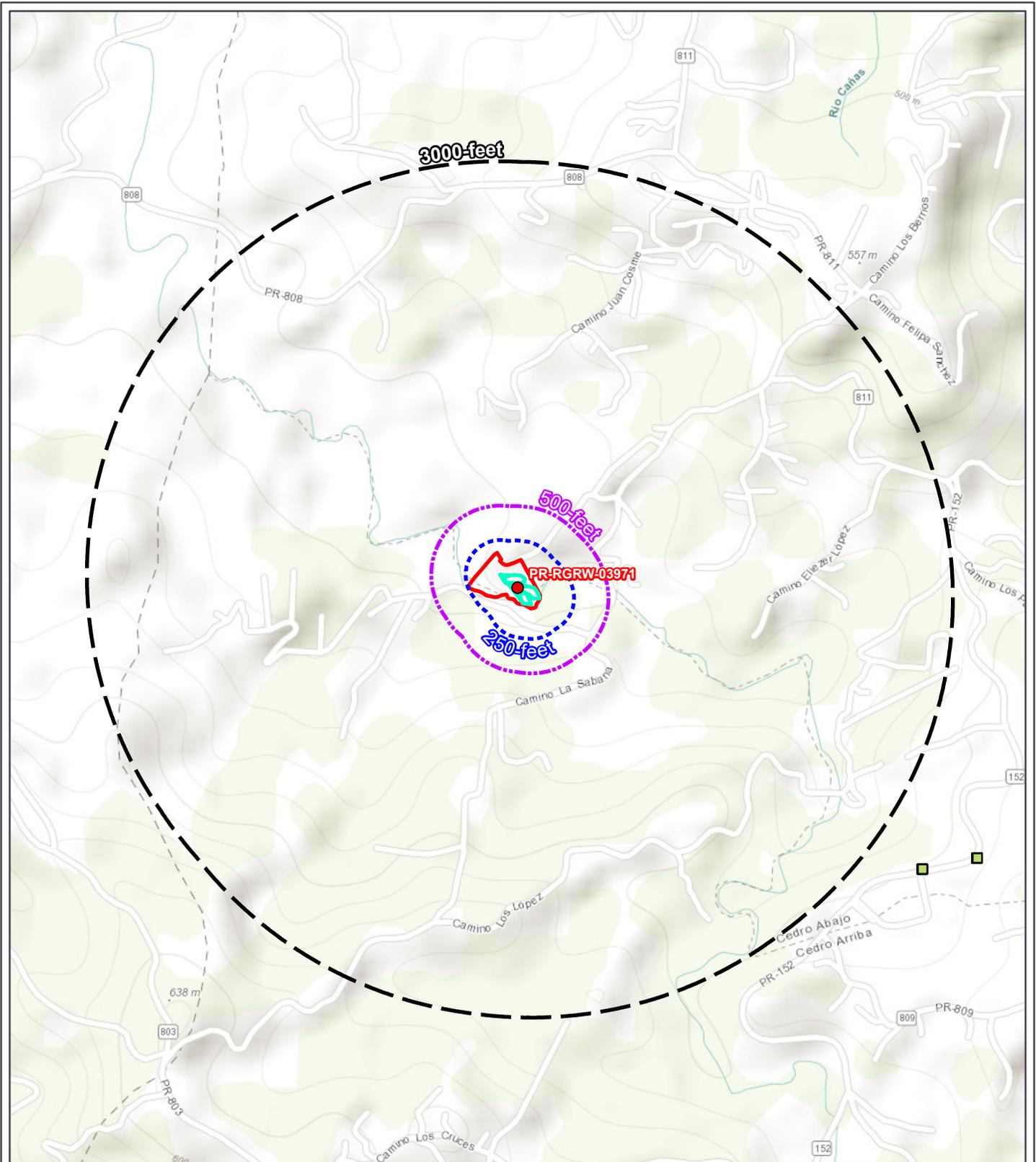
Disease Control and Prevention (**CDC**), National Environmental Public Health Tracking, and Radon Testing map do not include Puerto Rico data.

- 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.

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.



REGROW PROGRAM

**Figure B 6-1:  
Contamination and  
Toxic Substances Map**

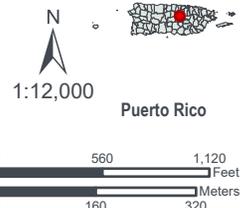
Applicant ID: PR-RGRW-03971



- Site
- Site Parcel
- Project Footprint (Option)
- Buffer (250-foot)
- Buffer (500-foot)
- Buffer (3000-foot)
- Water dischargers
- Toxic Substances Control Act
- Toxic releases
- Superfund
- Hazardous waste
- Brownfields
- Air pollution

Carr 811 Km 0.6 Int Bo. Cedro Abajo, Sector Sabana Naranjito, Puerto Rico 00719  
Parcel ID: 168-095-160-33-000 18.279655, -66.281036

Data Source: <https://geopub.epa.gov/arcgis/rest/services/EMEF/MapServer>  
Base Map: ESRI ArcGIS Online, accessed June 2024  
Updated: 6/21/2024  
Layout: Contamination and Toxic Substances



## **Attachment 7**

**Endangered Species Act Partner  
Worksheet, Threatened and Endangered  
Species Technical Memorandum,  
USFWS IPaC Species List, and Critical  
Habitat Map**



U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT  
WASHINGTON, DC 20410-1000

This Worksheet was designed to be used by those “Partners” (including Public Housing Authorities, consultants, contractors, and nonprofits) who assist Responsible Entities and HUD in preparing environmental reviews, but legally cannot take full responsibilities for these reviews themselves. Responsible Entities and HUD should use the RE/HUD version of the Worksheet.

## Endangered Species Act (CEST and EA) – PARTNER

<https://www.hudexchange.info/environmental-review/endangered-species>

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

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

→ If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide any documents used to make your determination.

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.

**Explain your determination:**

[Click here to enter text.](#)

→ If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide any documents used to make your determination.

Yes, the activities involved in the project have the potential to affect species and/or habitats. → Continue to Question 2.

### 2. Are federally listed species or designated critical habitats present in the action area?

Obtain a list of protected species from the Services. This information is available on the [FWS Website](#).

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

→ If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide any documents used to make your determination. Documentation may include letters from the Services, species lists from the Services’ websites, surveys or other documents and analysis showing that there are no species in the action area.

Yes, there are federally listed species or designated critical habitats present in the action area. → Continue to Question 3.

**3. Recommend one of the following effects that the project will 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.

→ *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide any documents used to make your determination. Documentation should include a species list and explanation of your conclusion, and may require maps, photographs, and surveys as appropriate.*

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.

→ Partner entities should not contact the Services directly. *If the RE/HUD agrees with this recommendation, they will have to complete Informal Consultation. Provide the RE/HUD with a biological evaluation or equivalent document. They may request additional information, including surveys and professional analysis, to complete their consultation.*

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

→ Partner entities should not contact the Services directly. *If the RE/HUD agrees with this recommendation, they will have to complete Formal Consultation. Provide the RE/HUD with a biological evaluation or equivalent document. They may request additional information, including surveys and professional analysis, to complete their consultation.*

**Worksheet Summary**

Provide a full description of your determination and a synopsis of the information that it was based on, such as:

- Map panel numbers and dates
- Names of all consulted parties and relevant consultation dates
- Names of plans or reports and relevant page numbers
- Any additional requirements specific to your program or region

**Include all documentation supporting your findings in your submission to HUD.**

Threatened, endangered, and migratory bird species were identified by reviewing data from the United States Fish and Wildlife Service (USFWS) Information and Planning Consultation (IPaC) Tool. In addition, critical species habitat was reviewed through the USFWS IPaC and Critical Habitat Portal databases. The review identified one federally listed species, Puerto Rican boa (*Chilabothrus inornatus*) with the potential to occur within the project area. The project is located 589,240 feet (17 miles) from the closest designated critical habitat.

The project area is adjacent to forested areas; therefore, the applicant will employ conservation measures for all four species, as outlined in Appendix E of the attached USACE informal consultation letter. As such, it is anticipated that the project may affect, but is not likely to adversely affect the Puerto Rican boa. The project will have no effect on designated critical habitat. See the attached USFWS informal consultation request and subsequent concurrence, dated August 28, 2024.

**From:** [Caribbean ES, FW4](#)  
**To:** [environmentcdbg](#)  
**Subject:** Re: [EXTERNAL] USFWS Endangered Species Concurrence Consultation\_CDBG-DR\_PR-RGRW-03971  
**Date:** Wednesday, August 28, 2024 1:20:05 PM  
**Attachments:** [image003.png](#)  
**Importance:** High

---

Good Afternoon

The Service acknowledge receipt the Dkey NLAA Consistency letter (Project code:2024-0119116) for the project named CDBG-DR PR-RGRW-03971 Alberto Luis Rivera, Naranjito. No further consultation is required. Keep this email for your records.

Thanks

Caribbean Ecological Services Field Office  
(786) 244-0081  
[caribbean\\_es@fws.gov](mailto:caribbean_es@fws.gov)

**For project evaluations, please visit our [Consultation Guidelines](#) website.**

---

**From:** environmentcdbg <[environmentcdbg@vivienda.pr.gov](mailto:environmentcdbg@vivienda.pr.gov)>  
**Sent:** Wednesday, August 21, 2024 4:00 PM  
**To:** Caribbean ES, FW4 <[Caribbean\\_ES@fws.gov](mailto:Caribbean_ES@fws.gov)>; Mena, Lourdes <[Lourdes\\_Mena@fws.gov](mailto:Lourdes_Mena@fws.gov)>  
**Subject:** [EXTERNAL] USFWS Endangered Species Concurrence Consultation\_CDBG-DR\_PR-RGRW-03971

**This email has been received from outside of DOI - Use caution before clicking on links, opening attachments, or responding.**

To whom it may concern:

In order to complete the environmental review process regarding the case **PR-RGRW-03971** for the CDBG-DR Re-Grow PR Urban-Rural Agriculture Program, we are requesting USFWS concurrence with the determinations included in the attached letter.

We look forward for your response in order to move forward our environmental review process.

Sincerely,

**Permits and Environmental Compliance Division**  
Disaster Recovery Office

[environmentcdbg@vivienda.pr.gov](mailto:environmentcdbg@vivienda.pr.gov) | 787.274.2527

Visit us: [recuperacion.pr.gov](http://recuperacion.pr.gov)

Contact us: [infocdbg@vivienda.pr.gov](mailto:infocdbg@vivienda.pr.gov)

DEPARTAMENTO DE LA  
**VIVIENDA**



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www.swca.com

August 09, 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](mailto:Caribbean_es@fws.gov); [Lourdes Mena@fws.gov](mailto:Lourdes_Mena@fws.gov)

**Re: Federally Listed Threatened and Endangered Species Evaluation for the Puerto Rico Department of Housing ReGrow PR-RGRW-03971 Project/ SWCA Project No. 72428**

Dear Ms. Mena:

SWCA Environmental Consultants (SWCA), on behalf of the Puerto Rico Department of Housing, is requesting 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 ReGrow PR-RGRW-03971 Project (project). The Project is located on 2.56 acres at Carretera 811 KM 0.6 Int Bo. Cerdo Abajo, Sector Sabana, Naranjito, Puerto Rico, 00719 (18.27918548, -66.28055167).

The proposed Project involves the construction of three new greenhouses. Construction of the greenhouses will require some pruning of vegetation, but no tree clearing is proposed.

Using the U.S. Fish and Wildlife Service (USFWS) Information for Planning and Consultation (IPaC) system, we have determined that the proposed project lies within the range of the following federally listed species:

Species	Listing Status
Puerto Rican Boa ( <i>Chilabothrus inornatus</i> )	Endangered

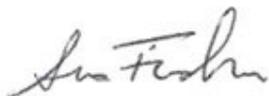
No designated or proposed critical habitat for any listed species was identified within the project area. Based on the nature of the project, scope of work, information available, and a careful analysis of the existing habitat, we have made the following effects determinations:

Species	Effect Determination	Conservation Measures to be Implemented
Puerto Rican Boa ( <i>Chilabothrus inornatus</i> )	Not likely to adversely affect (NLAA)	Puerto Rican Boa General Project Design Guidelines

In accordance with the 2024 Puerto Rican Boa General Project Design Guidelines, if a Puerto Rican Boa (PR Boa) is found in the project action site, work shall cease until the individual moves off on its own. If the PR Boa does not move off, the construction manager shall contact the Puerto Rico Department of Natural and Environmental Resources and ask for them to relocate the PR Boa.

In order to complete the informal consultation process, we are requesting your concurrence for the NLAA determinations included in this letter. Attached to this letter, we are including the documents used to reach our effect determinations for the listed species. If you have any questions or require any additional information, please contact me at (346) 388-1157 or [susan.fischer@swca.com](mailto:susan.fischer@swca.com).

Sincerely,



Susan Fischer  
Wildlife Ecologist  
SWCA Environmental Consultants

Attachments: Threatened and Endangered Species Technical Memorandum



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Tel 281.617.3217 Fax 713.896.3189  
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## TECHNICAL MEMORANDUM

**To:** Caribbean Ecological Services Field Office  
U.S. Fish and Wildlife Service  
P.O. Box 491  
Boquerón, Puerto Rico 00622

**From:** Susan Fischer, Project Biologist on behalf of the Puerto Rico Department of Housing

**Date:** July 23, 2024

**Re:** **Threatened and Endangered Species Evaluation for the Puerto Rico Department of Housing ReGrow PR-RGRW-03971 Project/ SWCA Project No. 72428**

---

### Project Description

Alberto Luis Rivera Rivera, the applicant, is proposing to construct three new greenhouses on a 2.56-acre property in the Municipio of Naranjito, Puerto Rico (project) (Appendix A, Figure 1). The project is located at Carretera 811 KM 0.6 Int Bo. Cerdo Abajo, Sector Sabana, Naranjito, Puerto Rico, 00719, in a rural area. Greenhouse Site 1 is approximately 4,425 square feet (sq ft); Greenhouse Site 2 is approximately 7,242 sq ft; and Greenhouse Site 3 is approximately 7,250 sq ft. Each greenhouse will be constructed using hardwood posts 10 feet (ft) tall by 4 inches (in) wide extending a maximum of 2 ft into the ground with a maximum of 105 posts in total, around all three greenhouses, and according to manufacturer specifications. Water for the irrigation system for the three greenhouses will be provided from two existing aboveground cisterns located 27 ft southwest and 82 ft southeast of the applicant's residence. All irrigation piping and connections to the greenhouses from the cisterns will use gravity to distribute water through aboveground surface lines (Appendix A, Figure 2).

### Existing conditions

The existing habitat conditions at the proposed greenhouse locations consist of barren ground or dense herbaceous vegetation surrounded by forested areas. There is one waterbody mapped along the southern border of the subject property (Appendix A, Figure 3). Construction of the greenhouses will require some pruning of vegetation, but no tree clearing is proposed. Representative photographs of the proposed locations are provided in Appendix B.

### Federally Protected Species

SWCA obtained a federal threatened and endangered species list from the USFWS (2024) Information for Planning and Consultation ("IPaC") website for a 100-foot buffer around the three greenhouse locations (review area) (Appendix C). The IPaC automatically generates a list of species and other resources of concern, such as critical habitat, that are known or expected to be in the specified area and could potentially be directly or indirectly affected. According to the IPaC query for the project, one federally listed

endangered species has the potential to occur in the review area; the Puerto Rican boa (*Chilabothrus inornatus*). SWCA also evaluated the review area for potential habitat for bald eagles (*Haliaeetus leucocephalus*) and golden eagles (*Aquila chrysaetos*) as they are protected by the Bald and Golden Eagle Protection Act of 1940 (“BGEPA”).

The bald and golden eagle’s range do not extend into Puerto Rico (Cornell Lab of Ornithology 2024); therefore, these species were eliminated from further analysis for this project. Table 1 identifies the species carried forward for further evaluation and summarizes each species’ habitat requirements, potential for occurrence in the project area, and determination of effects.

**Table 1. Federally Listed Species Range and/or Habitat Requirements**

Common Name (Scientific Name)	Status*	Range or Habitat Requirements	Potential for Occurrence in Project Area	Determination of Effects/Impacts
<b>Reptiles</b>				
Puerto Rican Boa ( <i>Chilabothrus inornatus</i> )	FE	Considered to be a habitat generalist, the Puerto Rican boa tolerates a wide variety of terrestrial and arboreal habitats, including rocky areas, haystack hill, trees and branches, rotting stumps, caves, plantations, various types of forested areas such as karst and mangrove forests, forested urban and rural areas, and along streams and road edges (USFWS 2011).	<i>May occur.</i> The project area is surrounded by forested areas and dense vegetative ground cover is present within portions of the project area.	<i>May affect, but not likely to adversely affect.</i> See discussion below.

\*Status Definitions:  
FE = Federally listed endangered

Due to the generalist nature of the Puerto Rican boa, forested habitat surrounding the project areas, and dense ground cover present within the review area, the Puerto Rican boa may occur within the project area. The applicant will employ the conservation measures outlined in the 2024 USFWS General Project Design Guidelines for the Puerto Rican boa (Appendix D), including but not limited to issuing a stop work if a Puerto Rican boa were to occur within the project area, and contacting the PRDNER for safe capture and relocation of the individual if such action is required. Consequently, it is anticipated that the project *may affect, but is not likely to adversely affect* the Puerto Rican boa. The USFWS Consistency Letter obtained through IPaC is included in Appendix E.

### Critical Habitat and National Wildlife Refuges

Potential effects to habitat(s) within the project area critical to endangered species must be analyzed along with the endangered species themselves, while any activity proposed on National Wildlife Refuge lands must undergo a compatibility determination conducted by the Refuge. No designated critical habitats are present within 100-feet of any of the proposed project location options (Appendix A, Figure 4) (USFWS 2023).

## LITERATURE CITED

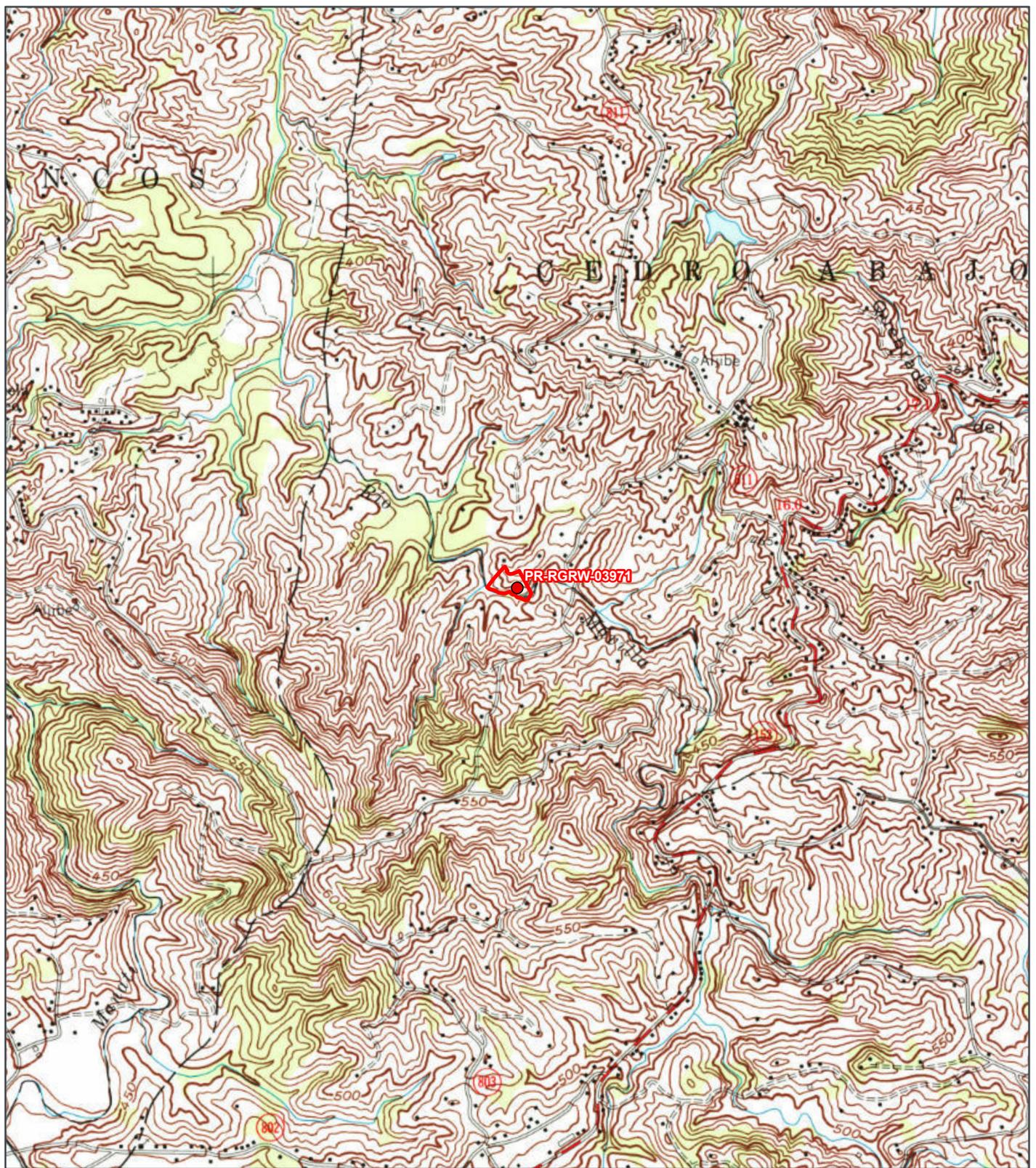
- Cornell Lab of Ornithology. 2024. All About Birds. Available at: <https://www.allaboutbirds.org/guide/>. Accessed July 2024.
- U. S. Fish and Wildlife Service (USFWS). 2011. *Puerto Rican Boa (Epicrates inornatus) 5-Year Review: Summary and Evaluation*. U.S. Fish and Wildlife Service, Southeast Region. Boquerón, Puerto Rico.
- . 2023. Critical Habitat for Threatened & Endangered Species [USFWS]. Available at: <https://fws.maps.arcgis.com/home/webmap/viewer.html?webmap=9d8de5e265ad4fe09893cf75b8dbfb77>. Accessed June 2023.
- . 2024. Information for Planning and Consultation System (IPaC). Available at: <http://ecos.fws.gov/ipac/>. Accessed July 2024.

## **APPENDIX A**

### **Maps**

**Figure 1**

**USGS Topographic Map**



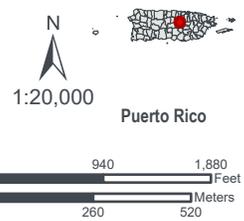
REGROW PROGRAM  
**USGS Topographic Map**  
 Applicant ID: PR-RGRW-03971



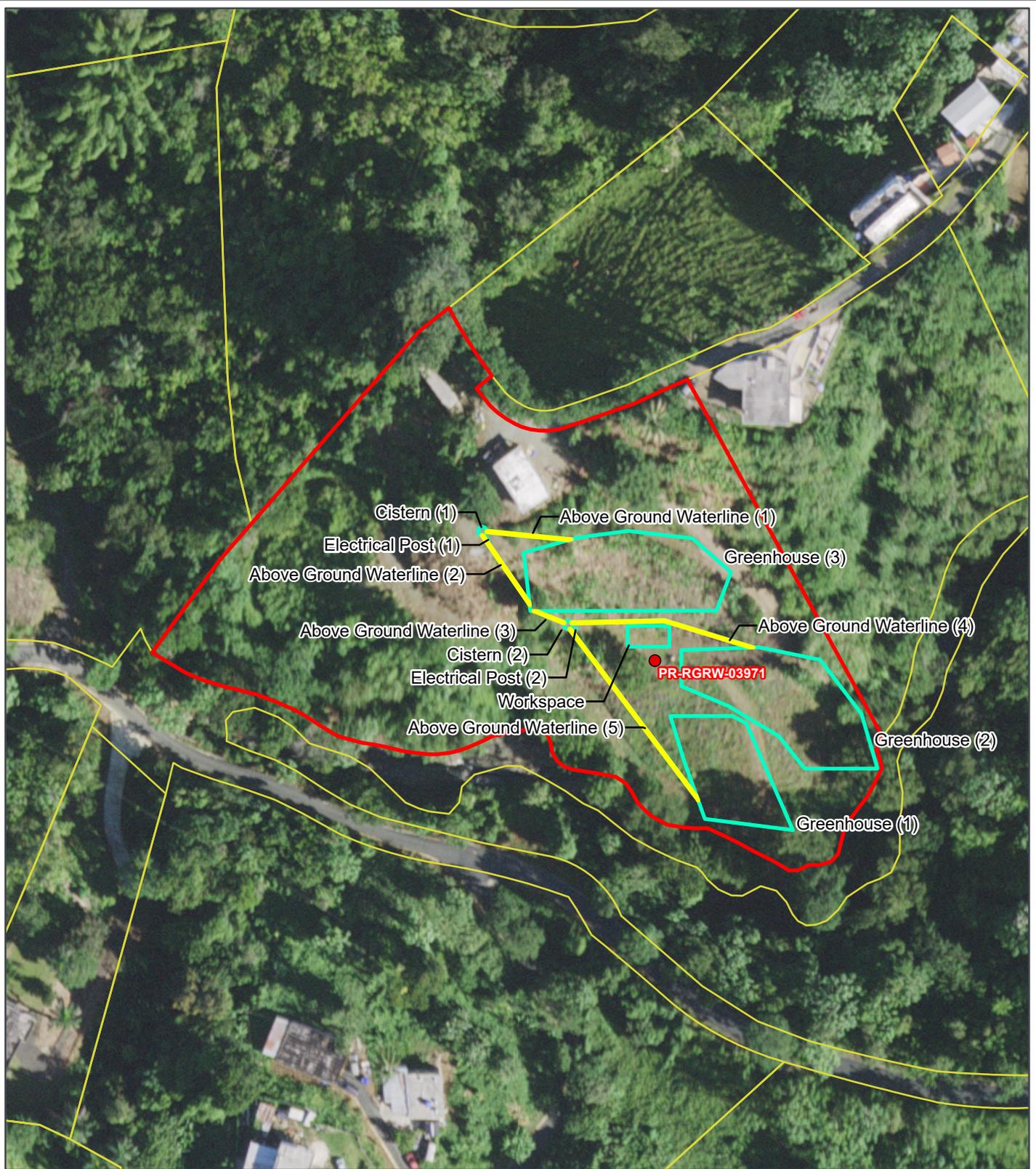
- Site
- Site Parcel

Carr 811 Km 0.6 Int Bo. Cedro Abajo, Sector Sabana Naranjito, Puerto Rico 00719  
 Parcel ID: 168-095-160-33-000  
 Center of Map: 66.280759°W 18.279295°N

Base Map: ESRI ArcGIS Online, accessed July 2024  
 Updated: 7/22/2024  
 Layout: USGS Topographic Map  
 Aprx: 72428\_ReGrowTier2Maps



**Figure 2**  
**Site Vicinity Map**



REGROW PROGRAM

**Site Vicinity**

Applicant ID: PR-RGRW-03971



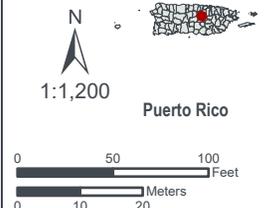
- Site
- ▭ Site Parcel
- ▭ Project Footprint (Option)
- ▭ Above Ground Utilities Location

Carr 811 Km 0.6 Int Bo. Cedro  
Abajo, Sector Sabana  
Naranjito, Puerto Rico 00719

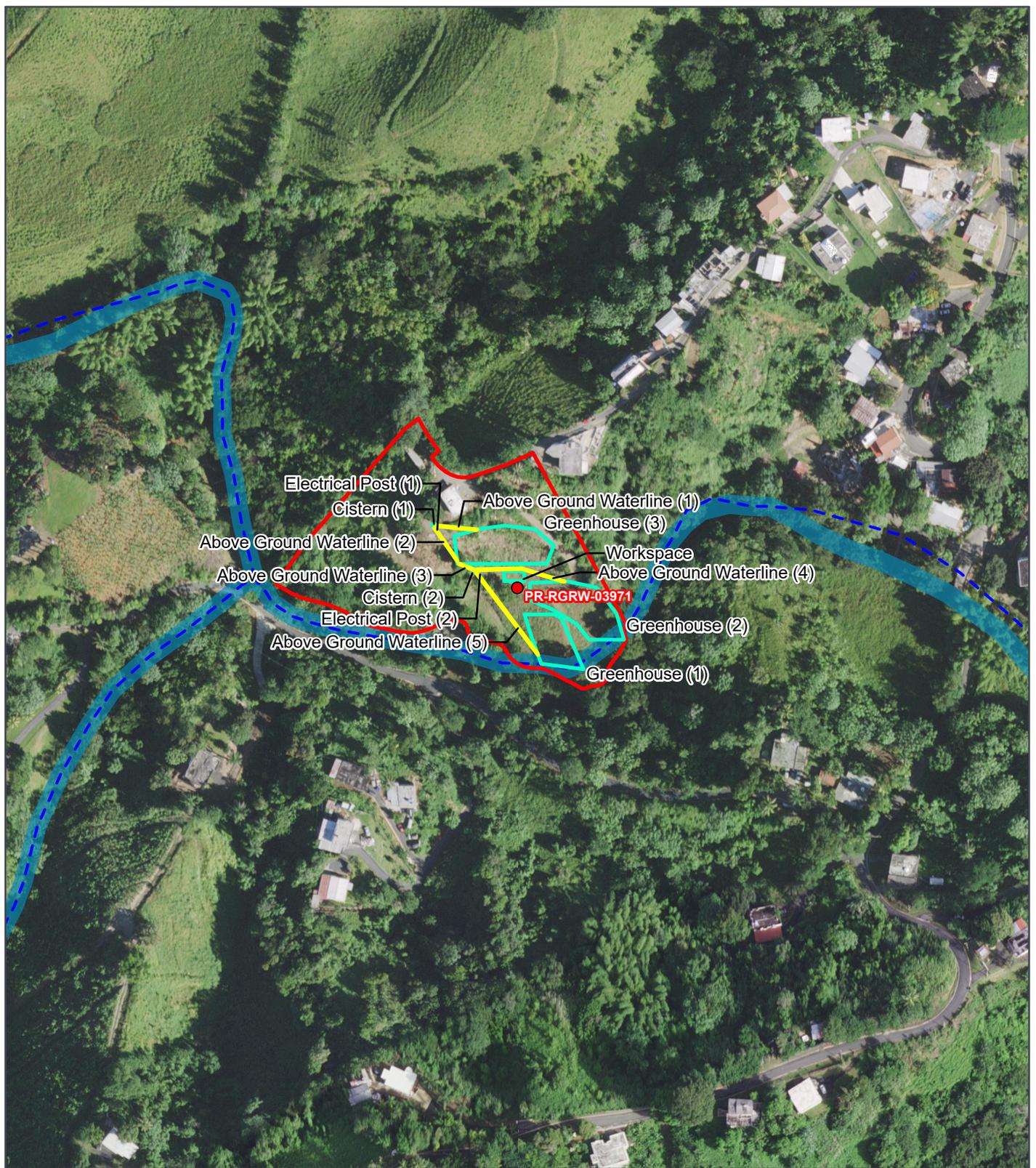
Parcel ID: 168-095-160-33-000  
Center of Map:  
66.281044°W 18.279437°N

Base Map: USA NAIP Imagery  
Imagery Year: 2022  
Updated: 6/21/2024

Layout: Site Vicinity  
Aprx: 72428\_ReGrowTier2Maps



**Figure 3**  
**Wetlands Map**



REGROW PROGRAM

### Wetlands Protection Map

Applicant ID: PR-RGRW-03971

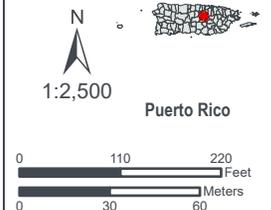


- Site
- Site Parcel
- Project Footprint (Option)
- Above Ground Utilities Location
- NHD Stream
- Estuarine and Marine Deepwater

- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Riverine

Carr 811 Km 0.6 Int Bo. Cedro  
Abajo, Sector Sabana  
Naranjito, Puerto Rico 00719  
Parcel ID: 168-095-160-33-000  
Center of Map:  
66.280759°W 18.279295°N

Data Source: <https://apps.nationalmap.gov/downloader/#/>  
<https://www.fws.gov/program/national-wetlands-inventory/data-download>  
Base Map: USA NAIP Imagery  
Imagery Year: 2022  
Updated: 6/21/2024  
Layout: Wetlands Protection



**Figure 4**  
**Critical Habitat Map**



REGROW PROGRAM

**Critical Habitat Map**

Applicant ID: PR-RGRW-03971

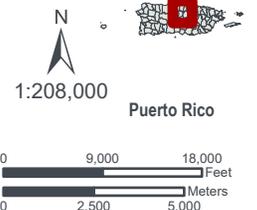


- Site
- Site Parcel
- Buffer (100-ft)
- Critical Habitat - Final
- Critical Habitat - Proposed
- National Wildlife Refuges

Carr 811 Km 0.6 Int Bo. Cedro Abajo, Sector Sabana Naranjito, Puerto Rico 00719

Parcel ID: 168-095-160-33-000  
Parcel Center: 66.382014°W 18.353445°N

Data Source: [https://services.arcgis.com/QVENGdaPbd4LUkLV/arcgis/rest/services/USFWS\\_Critical\\_Habitat/](https://services.arcgis.com/QVENGdaPbd4LUkLV/arcgis/rest/services/USFWS_Critical_Habitat/)  
Base Map: ESRI ArcGIS Online, accessed June 2023  
Updated: 6/27/2023  
Layout: Critical Habitat  
Aprx: 72428\_ReGrowTier2Maps



## **APPENDIX B**

### **Photographic Log**

Project #: PR-RGRW-03971	Photographer: Delise Torres Ortiz
Location Address: Carretera 811 KM 0.6 Int Bo. Cerdo Abajo, Sector Sabana, Naranjito 00719	Coordinates: 18.27918548, -66.28055167

<b>Photo #:</b> 01	<b>Date:</b> 05/30/ 2023	
<b>Photo Direction:</b> South		
<b>Description:</b> This picture is an overview of the site location for two greenhouses #1 and #2 taken from the main access road showing the area's vegetation.		

<b>Photo #:</b> 02	<b>Date:</b> 05/30/ 2023	
<b>Photo Direction:</b> West		
<b>Description:</b> This picture is an overview of the location of a cistern and electrical post for two greenhouses, #1 and #2, taken from the main access road showing the area's vegetation. This area will also serve as a workspace or laydown space.		

Project #: PR-RGRW-03971	Photographer: Delise Torres Ortiz
Location Address: Carretera 811 KM 0.6 Int Bo. Cerdo Abajo, Sector Sabana, Naranjito 00719	Coordinates: 18.27918548, -66.28055167

<b>Photo #:</b> 03	<b>Date:</b> 05/30/ 2023
<b>Photo Direction:</b> Northwest	
<b>Description:</b> This picture is an overview of the site location for greenhouse #3 taken from the main access road showing the area's vegetation, the road, and a partial view of the applicant's residence. The applicant will use the terrain as it is to prevent landslides; there is no need for grading the area.	



<b>Photo #:</b> 04	<b>Date:</b> 05/30/ 2023
<b>Photo Direction:</b> Southeast	
<b>Description:</b> This picture is an overview of the site location for two greenhouses, #1 and #2, taken from the main access road showing the area's vegetation. The applicant plans to leave a space of 10 to 12ft in between the two greenhouses.	



Project #: PR-RGRW-03971	Photographer: Delise Torres Ortiz
Location Address: Carretera 811 KM 0.6 Int Bo. Cerdo Abajo, Sector Sabana, Naranjito 00719	Coordinates: 18.27918548, -66.28055167

<b>Photo #:</b> 05	<b>Date:</b> 05/30/ 2023	
<b>Photo Direction:</b> Southwest		
<b>Description:</b> This picture is an overview of the site location for two greenhouses, specifically this area will have greenhouses #1 and #2, taken from the northeast corner showing the area's vegetation and the applicant's nephew.		

<b>Photo #:</b> 06	<b>Date:</b> 05/30/ 2023	
<b>Photo Direction:</b> Northwest		
<b>Description:</b> This picture is an overview of the site location for two greenhouses, #1 and #2, taken from the southeast corner showing the area's vegetation and the dirt/grass access road.		

Project #: PR-RGRW-03971	Photographer: Delise Torres Ortiz
Location Address: Carretera 811 KM 0.6 Int Bo. Cerdo Abajo, Sector Sabana, Naranjito 00719	Coordinates: 18.27918548, -66.28055167

<b>Photo #:</b> 07	<b>Date:</b> 05/30/ 2023	-
<b>Photo Direction:</b> North		
<b>Description:</b> This picture is an overview of the site location for two greenhouses #1 and #2, taken from the center showing the area's vegetation, the dirt/grass access road, and two structure with a partial view of the project location.		

<b>Photo #:</b> 08	<b>Date:</b> 05/30/ 2023	
<b>Photo Direction:</b> East		
<b>Description:</b> This picture is an overview of the site location for two greenhouses #1and #2, taken from the center showing the area's vegetation.		

Project #: PR-RGRW-03971	Photographer: Delise Torres Ortiz
Location Address: Carretera 811 KM 0.6 Int Bo. Cerdo Abajo, Sector Sabana, Naranjito 00719	Coordinates: 18.27918548, -66.28055167

<b>Photo #:</b> 09	<b>Date:</b> 05/30/ 2023	
<b>Photo Direction:</b> South		
<b>Description:</b> This picture is an overview of the site location for two greenhouses #1 and #2, taken from the center showing the area's vegetation towards the Rio Mavilla with an above ground water tank. The 55-gallon drum is empty, face down.		

<b>Photo #:</b> 10	<b>Date:</b> 05/30/ 2023	
<b>Photo Direction:</b> West		
<b>Description:</b> This picture is an overview of the site location for two greenhouses, #1 and #2, taken from the center showing the area's vegetation towards the Rio Mavilla with hardwood posts where the applicant plans to build an area for cleaning the crops (like a shed or warehouse).		

Project #: PR-RGRW-03971	Photographer: Delise Torres Ortiz
Location Address: Carretera 811 KM 0.6 Int Bo. Cerdo Abajo, Sector Sabana, Naranjito 00719	Coordinates: 18.27918548, -66.28055167

<b>Photo #:</b> 11	<b>Date:</b> 05/30/ 2023	
<b>Photo Direction:</b> North		
<b>Description:</b> This picture is an overview of the site location for greenhouse #3, taken from the center showing the area's vegetation.		

<b>Photo #:</b> 12	<b>Date:</b> 05/30/ 2023	
<b>Photo Direction:</b> East		
<b>Description:</b> This picture is an overview of the site location for greenhouse #3, taken from the center showing the area's vegetation towards the access road for the first location, southeast, and the third location, northwest.		

Project #: PR-RGRW-03971	Photographer: Delise Torres Ortiz
Location Address: Carretera 811 KM 0.6 Int Bo. Cerdo Abajo, Sector Sabana, Naranjito 00719	Coordinates: 18.27918548, -66.28055167

<b>Photo #:</b> 13	<b>Date:</b> 05/30/ 2023	
<b>Photo Direction:</b> South		
<b>Description:</b> This picture is an overview of the site location for greenhouse #3, taken from the center showing the area's vegetation towards Rio Mavilla (not visible).		

<b>Photo #:</b> 14	<b>Date:</b> 05/30/ 2023	
<b>Photo Direction:</b> West		
<b>Description:</b> This picture is an overview of the site location for greenhouse #3, taken from the center showing the area's vegetation; the 55-gallon drums are empty or are not being used.		

Project #: PR-RGRW-03971	Photographer: Delise Torres Ortiz
Location Address: Carretera 811 KM 0.6 Int Bo. Cerdo Abajo, Sector Sabana, Naranjito 00719	Coordinates: 18.27918548, -66.28055167

<b>Photo #:</b> 15	<b>Date:</b> 05/30/ 2023	
<b>Photo Direction:</b> North		
<b>Description:</b> This picture is an overview of the location for an electrical post that will provide electricity for greenhouse #3 taken from the center showing the area's vegetation.		

<b>Photo #:</b> 16	<b>Date:</b> 05/30/ 2023	
<b>Photo Direction:</b> East		
<b>Description:</b> This picture is an overview of the location for an electrical post that will provide electricity for greenhouse #3 taken from the center showing the area's vegetation.		

Project #: PR-RGRW-03971	Photographer: Delise Torres Ortiz
Location Address: Carretera 811 KM 0.6 Int Bo. Cerdo Abajo, Sector Sabana, Naranjito 00719	Coordinates: 18.27918548, -66.28055167

<b>Photo #:</b> 17	<b>Date:</b> 05/30/ 2023	
<b>Photo Direction:</b> South		
<b>Description:</b> This picture is an overview of the location for an electrical post that will provide electricity for greenhouse #3 taken from the center showing the area's vegetation.		

<b>Photo #:</b> 18	<b>Date:</b> 05/30/ 2023	
<b>Photo Direction:</b> West		
<b>Description:</b> This picture is an overview of the location for an electrical post that will provide electricity for greenhouse #3 taken from the center showing the area's vegetation.		

Project #: PR-RGRW-03971	Photographer: Delise Torres Ortiz
Location Address: Carretera 811 KM 0.6 Int Bo. Cerdo Abajo, Sector Sabana, Naranjito 00719	Coordinates: 18.27918548, -66.28055167

<b>Photo #:</b> 19	<b>Date:</b> 05/30/ 2023	
<b>Photo Direction:</b> South		
<b>Description:</b> This picture is an overview of the river right next to the site location for greenhouses #1 and #2, Rio Mavilla. The river has caused floods in the past with little or no damage to the area.		

<b>Photo #:</b> 20	<b>Date:</b> 05/30/ 2023	
<b>Photo Direction:</b> South		
<b>Description:</b> This picture presents the above ground water tank or cistern the applicant is using for the crops which takes water from Rio Mavilla; this water tank uses electricity.		

Project #: PR-RGRW-03971	Photographer: Delise Torres Ortiz
Location Address: Carretera 811 KM 0.6 Int Bo. Cerdo Abajo, Sector Sabana, Naranjito 00719	Coordinates: 18.27918548, -66.28055167

<b>Photo #:</b> 21	<b>Date:</b> 05/30/ 2023
<b>Photo Direction:</b> South	
<b>Description:</b> This picture shows the electrical connection next to the site location for greenhouses #1 and #2 that will be used to provide illumination to the area; the 55-gallon drum is empty and not being used.	



<b>Photo #:</b> 22	<b>Date:</b> 05/30/ 2023
<b>Photo Direction:</b> East	
<b>Description:</b> This picture shows the electrical connection next to the site location for greenhouse #3 that will be used to move the irrigation system and provide illumination for greenhouses #1 and #2; the 55-gallon drum is empty and not being used.	



Project #: PR-RGRW-03971	Photographer: Delise Torres Ortiz
Location Address: Carretera 811 KM 0.6 Int Bo. Cerdo Abajo, Sector Sabana, Naranjito 00719	Coordinates: 18.27918548, -66.28055167

<b>Photo #:</b> 23	<b>Date:</b> 05/30/ 2023
<b>Photo Direction:</b> Southwest	
<b>Description:</b> This picture overviews equipment for the greenhouses next to the site locations for greenhouse #1 and #2, and Rio Mavilla.	



<b>Photo #:</b> 24	<b>Date:</b> 05/30/ 2023
<b>Photo Direction:</b> South	
<b>Description:</b> This picture presents the applicant's residence built at the end of the 2010s and early 2020s.	



## **APPENDIX C**

### **USFWS Information for Planning and Consultation Species List**



## 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: [CARIBBEAN\\_ES@FWS.GOV](mailto:CARIBBEAN_ES@FWS.GOV)

In Reply Refer To:  
Project Code: 2024-0119116  
Project Name: PR-RGRW-03971

07/20/2024 03:13:30 UTC

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 [caribbean\\_es@fws.gov](mailto:caribbean_es@fws.gov). To obtain guidance for completing this process and the minimum requirements for project packages, please visit:

<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:

Caribbean Ecological Services Field Office

[caribbean\\_es@fws.gov](mailto: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: 2024-0119116

Project Name: PR-RGRW-03971

Project Type: Disaster-related Grants

Project Description: Construction and installation of three new greenhouses.

Project Location:

The approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/@18.2793861,-66.28076360406088,14z>



Counties: Naranjito County, Puerto Rico

## ENDANGERED SPECIES ACT SPECIES

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

## REPTILES

NAME	STATUS
Puerto Rican Boa <i>Chilabothrus inornatus</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/6628">https://ecos.fws.gov/ecp/species/6628</a> General project design guidelines: <a href="https://ipac.ecosphere.fws.gov/project/UCUKBBHXKZB4PFRQTZ75XV3H2Y/documents/generated/7159.pdf">https://ipac.ecosphere.fws.gov/project/UCUKBBHXKZB4PFRQTZ75XV3H2Y/documents/generated/7159.pdf</a>	Endangered

## 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 [National Wildlife Refuge](#) 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 Act<sup>1</sup> and the Migratory Bird Treaty Act<sup>2</sup>.

Any person or organization who plans or conducts activities that may result in impacts to bald or golden eagles, or their habitats<sup>3</sup>, 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

Certain birds are protected under the Migratory Bird Treaty Act<sup>1</sup> and the Bald and Golden Eagle Protection Act<sup>2</sup>.

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats<sup>3</sup> 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 [NWI wetlands](#) 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.S. Army Corps of 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.

WETLAND INFORMATION WAS NOT AVAILABLE WHEN THIS SPECIES LIST WAS GENERATED. PLEASE VISIT [HTTPS://WWW.FWS.GOV/WETLANDS/DATA/MAPPER.HTML](https://www.fws.gov/wetlands/data/mapper.html) OR CONTACT THE FIELD OFFICE FOR FURTHER INFORMATION.

## **IPAC USER CONTACT INFORMATION**

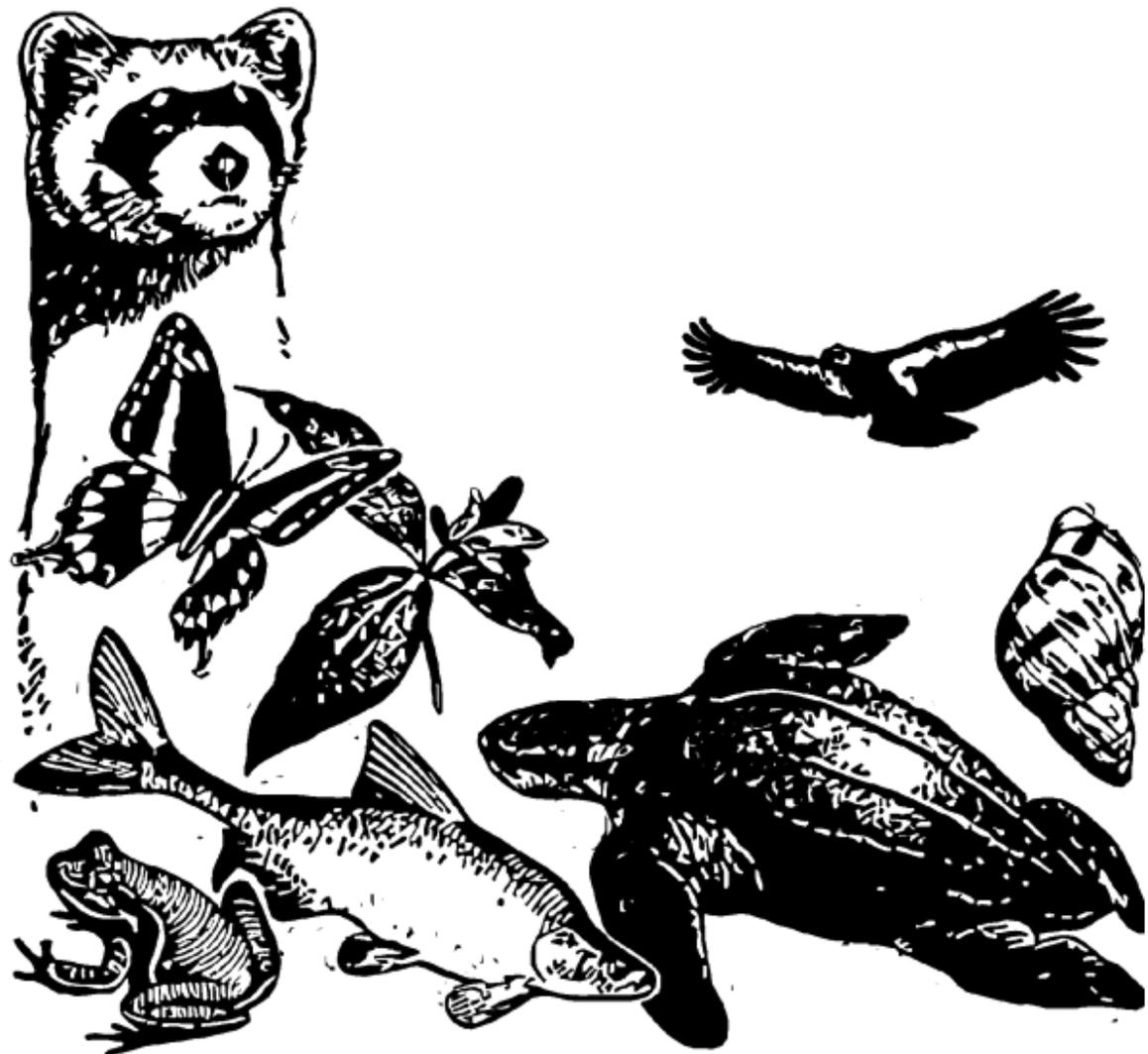
Agency: SWCA Environmental Consultants  
Name: Susan Fischer  
Address: 10245 West Little York Road  
Address Line 2: Suite 600  
City: Houston  
State: TX  
Zip: 77040  
Email: susan.fischer@swca.com  
Phone: 3463881157

## **APPENDIX D**

### **Project Design Guidelines**

# General Project Design Guidelines (1 Species)

Generated July 20, 2024 03:20 AM UTC, IPaC v6.112.0-rc2



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Puerto Rican Boa - Caribbean Ecological Services Field Office .....	<a href="#">2</a>

# Species Document Availability

## Species with general design guidelines

Puerto Rican Boa *Chilabothrus inornatus*

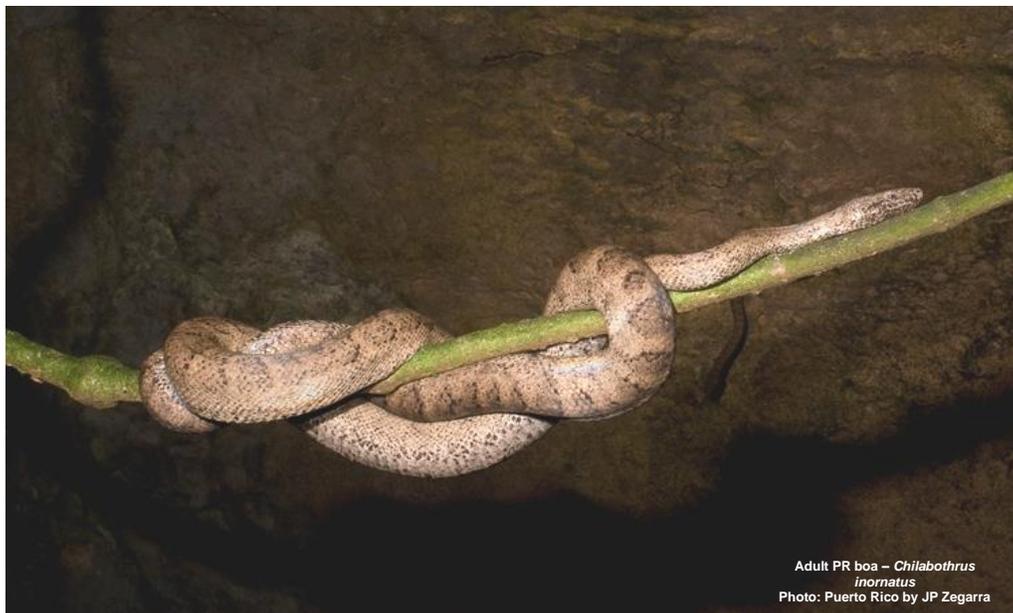


## U.S. FISH AND WILDLIFE SERVICE CARIBBEAN ECOLOGICAL SERVICES FIELD OFFICE

### 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.
2. 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 #: (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
  - Email: [jose\\_cruz-burgos@fws.gov](mailto:jose_cruz-burgos@fws.gov)
  - Office phone (305) 304-1386
- Jan Zegarra, Fish and Wildlife Biologist
  - Email: [jan\\_zegarra@fws.gov](mailto:jan_zegarra@fws.gov)
  - Office phone (786) 933-1451

**APPENDIX E**

**USFWS Consistency Letter**



## 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: [CARIBBEAN\\_ES@FWS.GOV](mailto:CARIBBEAN_ES@FWS.GOV)

In Reply Refer To:  
Project code: 2024-0119116  
Project Name: PR-RGRW-03971

07/20/2024 03:15:35 UTC

Subject: Consistency letter for the project named 'PR-RGRW-03971' 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 July 20, 2024, Susan Fischer 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-03971'. The project is located in Naranjito County, Puerto Rico (shown below).

The approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/@18.2793861,-66.28076360406088,14z>



The following description was provided for the project 'PR-RGRW-03971':

Construction and installation of three new greenhouses.

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

Species	Listing Status	Determination
Puerto Rican Boa ( <i>Chilabothrus inornatus</i> )	Endangered	NLAA

**Consultation with the Service is not complete.** 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 **594-146667499**

**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](mailto: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](mailto:Caribbean_es@fws.gov).

**Action Description**

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

**1. Name**

PR-RGRW-03971

**2. Description**

The following description was provided for the project 'PR-RGRW-03971':

Construction and installation of three new greenhouses.

The approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/@18.2793861,-66.28076360406088,14z>



## 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.

*Yes*

11. Is the project area more than 1 acre?

*No*

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

*No*

13. 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*

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

**Automatically answered**

*Yes*

15. Will the proposed project implement the U.S. Fish and Wildlife [Puerto Rican boa Conservation Measures](#)?

*Yes*

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

*No*

## **IPAC USER CONTACT INFORMATION**

Agency: SWCA Environmental Consultants  
Name: Susan Fischer  
Address: 10245 West Little York Road  
Address Line 2: Suite 600  
City: Houston  
State: TX  
Zip: 77040  
Email: susan.fischer@swca.com  
Phone: 3463881157

## **LEAD AGENCY CONTACT INFORMATION**

Lead Agency: Department of Housing and Urban Development



REGROW PROGRAM

**Figure B 7-1:  
Critical Habitat Map**

Applicant ID: PR-RGRW-03971

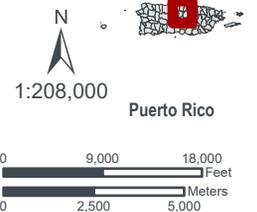


- Site
- Site Parcel
- Buffer (100-ft)
- Critical Habitat - Final
- Critical Habitat - Proposed
- National Wildlife Refuges

Carr 811 Km 0.6 Int Bo. Cerdo  
Abajo, Sector Sabana  
Naranjito, Puerto Rico 00719

Parcel ID: 168-095-160-33-000  
Parcel Center:  
66.382014°W 18.353445°N

Data Source: [https://services.arcgis.com/QVENGdaPbd4LUkLV/arcgis/rest/services/USFWS\\_Critical\\_Habitat/](https://services.arcgis.com/QVENGdaPbd4LUkLV/arcgis/rest/services/USFWS_Critical_Habitat/)  
Base Map: ESRI ArcGIS Online, accessed June 2023  
Updated: 6/27/2023  
Layout: Critical Habitat  
Aprx: 72428\_ReGrowTier2Maps



**Attachment 8**  
**Explosive and Flammable Hazards Partner**  
**Worksheet**



**U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT**  
WASHINGTON, DC 20410-1000

This Worksheet was designed to be used by those “Partners” (including Public Housing Authorities, consultants, contractors, and nonprofits) who assist Responsible Entities and HUD in preparing environmental reviews, but legally cannot take full responsibilities for these reviews themselves. Responsible Entities and HUD should use the RE/HUD version of the Worksheet.

**Explosive and Flammable Hazards (CEST and EA) – PARTNER**

<https://www.hudexchange.info/environmental-review/explosive-and-flammable-facilities>

- 1. Does the proposed HUD-assisted project include a hazardous facility (a facility that mainly stores, handles or processes flammable or combustible chemicals such as bulk fuel storage facilities and refineries)?**

No

→ Continue to Question 2.

Yes

**Explain:**

Click here to enter text.

→ Continue to Question 5.

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

No → If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below.

Yes → Continue to Question 3.

- 3. Within 1 mile of the project site, are there any current *or planned* stationary aboveground storage containers:**

- Of more than 100-gallon capacity, containing common liquid industrial fuels OR
- Of any capacity, containing hazardous liquids or gases that are not common liquid industrial fuels?

No → If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide all documents used to make your determination.

Yes → Continue to Question 4.

- 4. Is the Separation Distance from the project acceptable based on standards in the Regulation?**

Please visit HUD’s website for information on calculating Acceptable Separation Distance.

Yes

→ If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below.

*Provide map(s) showing the location of the project site relative to any tanks and your separation distance calculations. If the map identifies more than one tank, please identify the tank you have chosen as the “assessed tank.”*

No

*→ Continue to Question 6.*

*Provide map(s) showing the location of the project site relative to any tanks and your separation distance calculations. If the map identifies more than one tank, please identify the tank you have chosen as the “assessed tank.”*

**5. Is the hazardous facility located at an acceptable separation distance from residences and any other facility or area where people may congregate or be present?**

Please visit HUD’s website for information on calculating Acceptable Separation Distance.

Yes

*→ If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below.*

*Provide map(s) showing the location of the project site relative to residences and any other facility or area where people congregate or are present and your separation distance calculations.*

No

*→ Continue to Question 6.*

*Provide map(s) showing the location of the project site relative to residences and any other facility or area where people congregate or are present and your separation distance calculations.*

**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 make the Separation Distance acceptable, including the timeline for implementation. If negative effects cannot be mitigated, cancel the project at this location.**

Note that only licensed professional engineers should design and implement blast barriers. If a barrier will be used or the project will be modified to compensate for an unacceptable separation distance, provide approval from a licensed professional engineer.

[Click here to enter text.](#)

**Worksheet Summary**

Provide a full description of your determination and a synopsis of the information that it was based on, such as:

- Map panel numbers and dates
- Names of all consulted parties and relevant consultation dates
- Names of plans or reports and relevant page numbers
- Any additional requirements specific to your program or region

**Include all documentation supporting your findings in your submission to HUD.**

The project includes the new construction of three greenhouses. The project itself is not the development of a hazardous facility nor will the project increase residential densities. No further evaluation is required. The project is in compliance with explosive and flammable hazard requirements.

## Attachment 9

# Farmlands Protection Partner Worksheet and Prime Farmland Map



U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT  
WASHINGTON, DC 20410-1000

This Worksheet was designed to be used by those “Partners” (including Public Housing Authorities, consultants, contractors, and nonprofits) who assist Responsible Entities and HUD in preparing environmental reviews, but legally cannot take full responsibilities for these reviews themselves. Responsible Entities and HUD should use the RE/HUD version of the Worksheet.

## Farmlands Protection (CEST and EA) - PARTNER

<https://www.hudexchange.info/environmental-review/farmlands-protection>

**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 → *Continue to Question 2.*

No

→ *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below.*

**2. Does “important farmland,” including prime farmland, unique farmland, or farmland of statewide or local importance regulated under the Farmland Protection Policy Act, occur on the project site?**

You may use the links below to determine important farmland occurs on the project site:

- Utilize USDA Natural Resources Conservation Service’s (NRCS) Web Soil Survey <http://websoilsurvey.nrcs.usda.gov/app/HomePage.htm>
- Check with your city or county’s planning department and ask them to document if the project is on land regulated by the FPPA (zoning important farmland as non-agricultural does not exempt it from FPPA requirements)
- Contact NRCS at the local USDA service center <http://offices.sc.egov.usda.gov/locator/app?agency=nrcs> or your NRCS state soil scientist [http://soils.usda.gov/contact/state\\_offices/](http://soils.usda.gov/contact/state_offices/) for assistance

No → *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide any documents used to make your determination.*

Yes → *Continue to Question 3.*

**3. Consider alternatives to completing the project on important farmland and means of avoiding impacts to important farmland.**

- Complete form [AD-1006, “Farmland Conversion Impact Rating”](#) and contact the state soil scientist before sending it to the local NRCS District Conservationist.
- Work with NRCS to minimize the impact of the project on the protected farmland. When you have finished with your analysis, return a copy of form AD-1006 to the USDA-NRCS State Soil Scientist or his/her designee informing them of your determination.

**Work with the RE/HUD to determine how the project will proceed. Document the conclusion:**

Project will proceed with mitigation.

**Explain in detail the proposed measures that must be implemented to mitigate for the impact or effect, including the timeline for implementation.**

[Click here to enter text.](#)

→ *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide form AD-1006 and all other documents used to make your determination.*

Project will proceed without mitigation.

**Explain why mitigation will not be made here:**

[Click here to enter text.](#)

→ *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide form AD-1006 and all other documents used to make your determination.*

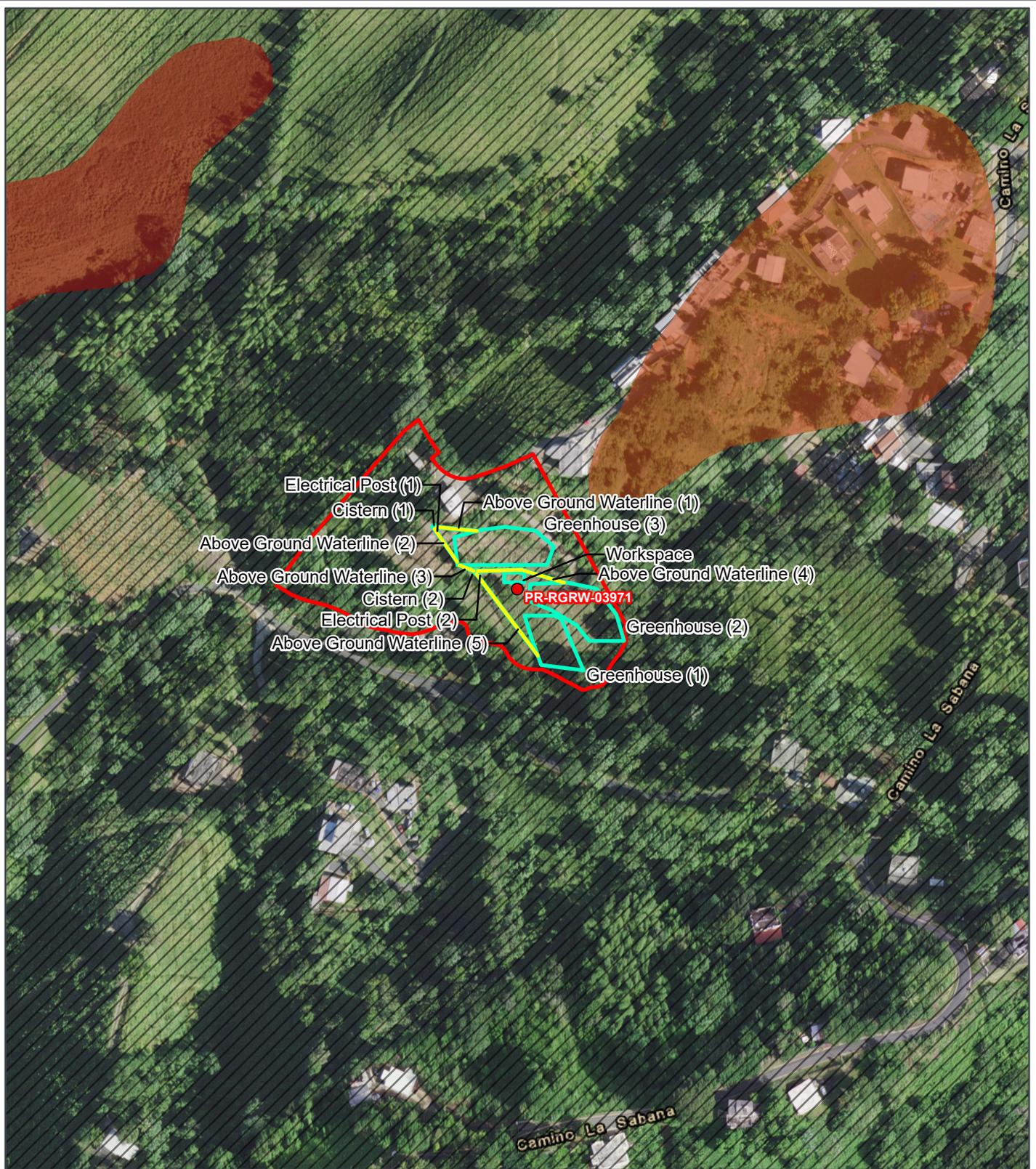
### **Worksheet Summary**

Provide a full description of your determination and a synopsis of the information that it was based on, such as:

- Map panel numbers and dates
- Names of all consulted parties and relevant consultation dates
- Names of plans or reports and relevant page numbers
- Any additional requirements specific to your program or region

### **Include all documentation supporting your findings in your submission to HUD.**

This project does not include any activities that could potentially convert agricultural land to non-agricultural use. No prime farmland or farmlands of statewide importance are within the project area. Although the project includes new construction, the project is exempt from review under the Farmland Protection Policy Act (FFPA) as the project is limited to construction of on-farm structures needed for farm operations. No further review is required. The project is in compliance with the Farmland Protection Policy Act.



REGROW PROGRAM

**Figure B 9-1:  
Prime Farmland Map**

Applicant ID: PR-RGRW-03971

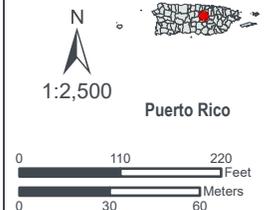


- Site
- Site Parcel
- Project Footprint (Option)
- Above Ground Utilities Location
- All areas are prime farmland
- Farmland of statewide importance
- Farmland of statewide importance, if irrigated

- Prime farmland if drained
- Prime farmland if irrigated
- Prime farmland if irrigated and reclaimed of excess salts and sodium
- Prime farmland if protected from flooding or not frequently flooded during the growing season
- Not prime farmland
- Not Public Information

Carr 811 Km 0.6 Int Bo. Cerdo  
Abajo, Sector Sabana  
Naranjito, Puerto Rico 00719  
Parcel ID: 168-095-160-33-000  
18.279655, -66.281036

Data Source: <https://websoilsurvey.nrcs.usda.gov/app/>  
Base Map: USA NAIP Imagery  
Imagery Year: 2022  
Updated: 6/21/2024  
Layout: Prime Farmland  
Aprx: 72428\_ReGrowTier2Maps



## **Attachment 10**

# **Floodplain Management Partner Worksheet and Advisory Base Flood Elevation Map**



This Worksheet was designed to be used by those “Partners” (including Public Housing Authorities, consultants, contractors, and nonprofits) who assist Responsible Entities and HUD in preparing environmental reviews, but legally cannot take full responsibilities for these reviews themselves. Responsible Entities and HUD should use the RE/HUD version of the Worksheet.

**Floodplain Management (CEST and EA)**

General Requirements	Legislation	Regulation
Executive Order 11988, Floodplain Management, requires Federal activities to avoid impacts to floodplains and to avoid direct and indirect support of floodplain development to the extent practicable.	Executive Order 11988 Executive Order 13690 42 USC <u>4001-4128</u> 42 USC 5154a	24 CFR 55
<b>Reference</b>		
<a href="https://www.hudexchange.info/environmental-review/floodplain-management">https://www.hudexchange.info/environmental-review/floodplain-management</a>		

1. Does this project meet an exemption at [24 CFR 55.12](#) from compliance with HUD’s floodplain management regulations in Part 55 or utilize the delayed compliance date for certain Office of Housing programs?

Yes

Select the applicable citation at [24 CFR 55.12](#) and provide supporting documentation for the determination if applicable.

- a)  HUD-assisted activities described in 24 CFR 58.34 and 58.35(b)
- b)  HUD-assisted activities described in 24 CFR 50.19, except as otherwise indicated in § 50.19
- c)  The approval of financial assistance for restoring and preserving the natural and beneficial functions and values of floodplains and wetlands, including through acquisition of such floodplain and wetland property, where a permanent covenant or comparable restriction is place on the property’s continued use for flood control, wetland protection, open space, or park land, but only if:
  - (1) The property is cleared of all existing buildings and walled structures; and
  - (2) The property is cleared of related improvements except those which:
    - (i) Are directly related to flood control, wetland protection, open space, or park land (including playgrounds and recreation areas);
    - (ii) Do not modify existing wetland areas or involve fill, paving, or other ground disturbance beyond minimal trails or paths; and
    - (iii) Are designed to be compatible with the beneficial floodplain or wetland function of the property.

- d)  An action involving a repossession, receivership, foreclosure, or similar acquisition of property to protect or enforce HUD's financial interests under previously approved loans, grants, mortgage insurance, or other HUD assistance
- e)  Policy-level actions described at 24 CFR 50.16 that do not involve site-based decisions
- f)  A minor amendment to a previously approved action with no additional adverse impact on or from a floodplain or wetland;
- g)  HUD's or the responsible entity's approval of a project site, an incidental portion of which is situated in the FFRMS floodplain (not including the floodway, LiMWA, or coastal high hazard area) but only if:
  - (1) The proposed project site does not include any existing or proposed buildings or improvements that modify or occupy the FFRMS floodplain except de minimis improvements such as recreation areas and trails; and
  - (2) the proposed project will not result in any new construction in or modifications of a wetland
- h)  Issuance or use of Housing Vouchers or other forms of rental subsidy where HUD, the awarding community, or the public housing agency that administers the contract awards rental subsidies that are not project-based (i.e., do not involve site-specific subsidies)
- i)  Special projects directed to the removal of material and architectural barriers that restrict the mobility of and accessibility to elderly and persons with disabilities.

Exemptions do not apply due to the project activities being three greenhouses.

*Based on the response, the review is in compliance with this section. Continue to the Worksheet Summary below.*

Yes. Office of Housing programs utilizing the January 1, 2025 compliance date. These reviews must comply with the 2013 version of the Part 55 regulations. Continue to Worksheet Summary for 2013 version to upload supporting documentation.

No. *Continue to Question 2.*

**2. Does the project include a Critical Action?**

Yes. Describe the Critical Action. Examples of Critical Actions include projects involving hospitals, fire and police stations, nursing homes, hazardous chemical storage, storage of valuable records, and utility plants. Continue to Question 4.

No, the project is not a Critical Action as defined in 24 CFR 55.2(b)(3)

No. Continue to Question 3.

**3. Determine the extent of the FFRMS floodplain and provide mapping documentation in support of that determination.**

The extent of the FFRMS floodplain can be determined using a Climate Informed Science Approach (CISA), 0.2 percent flood approach (0.2 PFA), or freeboard value approach (FVA). For projects in areas without available CISA data or without FEMA Flood Insurance Rate Maps (FIRMs), Flood Insurance Studies (FISs) or Advisory Base Flood Elevations (ABFEs), use the best available information to determine flood elevation. Include documentation and an explanation of why this is the best available information for the site. Note that newly constructed and substantially improved structures must be elevated to the FFRMS floodplain regardless of the approach chosen to determine the floodplain.

***Select one of the following three options:***

CISA for non-critical actions. If using a local tool, data, or resources, ensure that the FFRMS elevation is higher than would have been determined using the 0.2 PFA or the FVA.

0.2-PFA. Where FEMA has defined the 0.2-percent-annual-chance floodplain, the FFRMS floodplain is the area that FEMA has designated as within the 0.2-percent-annual-chance floodplain.

FVA. If neither CISA nor 0.2-PFA is available, for non-critical actions, the FFRMS floodplain is the area that results from adding two feet to the base flood elevation as established by the effective FIRM or FIS or—if available—a FEMA-provided preliminary or pending FIRM or FIS or advisory base flood elevations, whether regulatory or informational in nature. However, an interim or preliminary FEMA map cannot be used if it is lower than the current FIRM or FIS.

**a. Does your project occur in the FFRMS floodplain?**

Yes, continue to part b.

No. Review for floodplain management is complete.

**b. Is your project located in any of the floodplain categories below? Select all that apply. If none apply, continue to question 7.**

Floodway: *Continue to Question 5. Floodways.*

Coastal High Hazard Area (V Zone) or Limit of Moderate Wave Action (LiMWA): *Continue to Question 6. Coastal High Hazard Areas and LiMWAs.*

**4. Determine the extent of the FFRMS floodplain and provide mapping documentation in support of that determination.**

The extent of the FFRMS floodplain can be determined using a Climate Informed Science Approach (CISA), or the higher of the 0.2 percent flood approach (0.2 PFA), or freeboard value approach (FVA). For projects in areas without available CISA data or without FEMA Flood Insurance Rate Maps (FIRMs), Flood Insurance Studies (FISs) or Advisory Base Flood Elevations (ABFEs), use the best available information to determine flood elevation. Note that newly constructed and substantially improved structures must be elevated to the FFRMS floodplain regardless of the approach chosen to determine the floodplain.

**Utilize CISA to determine the FFRMS floodplain for critical actions**

CISA for Critical Actions. If using a local tool, ensure that the FFRMS elevation provided is higher than the 0.2 PFA or 3' above the base flood elevation.

**OR;**

**Choose the higher of 0.2 PFA or FVA elevations**

0.2-PFA. Where FEMA has defined the 0.2-percent-annual-chance floodplain, the FFRMS floodplain is the area that FEMA has designated as within the 0.2-percent-annual-chance floodplain.

FVA. For critical actions, the FFRMS floodplain is the area that results from adding three feet to the base flood elevation as established by the effective FEMA FIRM or FIS or—if available—a FEMA-provided preliminary or pending FIRM or FIS or advisory base flood elevations, whether regulatory or informational in nature. However, an interim or preliminary FEMA map cannot be used if it is lower than the current FIRM or FIS.

**a. Does your project occur in the FFRMS floodplain?**

Yes, continue to part b.

No. Review for floodplain management is complete.

**b. Is your project located in any of the floodplain categories below? Select all that apply. If none apply, continue to question 7.**

Floodway: *Continue to Question 5. Floodways.*

Coastal High Hazard Area (V Zone) or LiMWA: *Continue to Question 6. Coastal High Hazard Areas and LiMWAs.*

**5. Floodways**

**Do the floodway exemptions at [55.8](#) or [55.21](#) apply?**

Yes

The 8-Step Process is required. Document mitigation measures necessary to meet the requirements in 55.8 or 55.21. Provide a completed 8-Step Process, including the early public notice and the final notice.

*Continue to Question 7. 8-Step Process.*

No

**Federal assistance may not be used at this location.** You must either choose an alternate site or cancel the project at this location.

**6. Coastal High Hazard Area (V Zone) and LiMWAs**

**Do the exemptions at [55.8](#) or [55.21](#) apply?**

Yes

The 8-Step Process is required. Document mitigation measures necessary to meet the requirements in 55.8 or 55.21. Provide a completed 8-Step Process, including the early public notice and the final notice.

*Continue to Question 7. 8-Step Process.*

No

Federal assistance may not be used at this location. You must either choose an alternate site or cancel the project at this location.

## 7. 8-Step Process.

**Does the 8-Step Process apply? Select one of the following options:**

8-Step Process is inapplicable per 55.13.

Select the applicable citation:

- (a) HUD's mortgage insurance actions and other financial assistance for the purchasing, mortgaging, or refinancing of existing one- to four-family properties in communities that are in the Regular Program of the NFIP and in good standing ( i.e., not suspended from program eligibility or placed on probation under 44 CFR 59.24), where the action is not a critical action and the property is not located in a floodway, coastal high hazard area, or LiMWA;
- (b) Financial assistance for minor repairs or improvements on one- to four-family properties that do not meet the thresholds for "substantial improvement" under § 55.2(b)(12);
- (c) HUD or a recipient's actions involving the disposition of individual HUD or recipient held, one- to four-family properties;
- (d) HUD guarantees under the Loan Guarantee Recovery Fund Program (24 CFR part 573), where any new construction or rehabilitation financed by the existing loan or mortgage has been completed prior to the filing of an application under the program, and the refinancing will not allow further construction or rehabilitation, nor result in any physical impacts or changes except for routine maintenance;
- (e) The approval of financial assistance to lease units within an existing structure located within the floodplain, but only if;
  - (1) The structure is located outside the floodway or coastal high hazard area, and is in a community that is in the Regular Program of the NFIP and in good standing ( i.e., not suspended from program eligibility or placed on probation under 44 CFR 59.24); and
  - (2) The project is not a critical action; and
  - (3) The entire structure is or will be fully insured or insured to the maximum extent available under the NFIP for at least the term of the lease.
- (f) Special projects for the purpose of improving efficiency of utilities or installing renewable energy that involve the repair, rehabilitation, modernization, weatherization, or improvement of existing structures or infrastructure, do not meet the thresholds for "substantial improvement" under § 55.2(b)(12), and do not include the installation of equipment below the FFRMS floodplain elevation.

*Based on the response, the review is in compliance with this section. Continue to the Worksheet Summary below.*

5-Step Process is applicable per 55.14.

Provide documentation of 5-Step Process.

Select the applicable citation:

- (a) HUD actions involving the disposition of HUD-acquired multifamily housing projects or “bulk sales” of HUD-acquired one- to four-family properties in communities that are in the Regular Program of the National Flood Insurance Program (NFIP) and in good standing (i.e., not suspended from program eligibility or placed on probation under 44 CFR 59.24).
- (b) HUD's actions under the National Housing Act (12 U.S.C. 1701) for the purchase or refinancing of existing multifamily housing projects, hospitals, nursing homes, assisted living facilities, board and care facilities, and intermediate care facilities, in communities that are in good standing under the NFIP.
- (c) HUD's or the recipient's actions under any HUD program involving the repair, rehabilitation, modernization, weatherization, or improvement of existing multifamily housing projects, hospitals, nursing homes, assisted living facilities, board and care facilities, intermediate care facilities, and one- to four-family properties, in communities that are in the Regular Program of the National Flood Insurance Program (NFIP) and are in good standing, provided that the number of units is not increased more than 20 percent, the action does not involve a conversion from nonresidential to residential land use, the action does not meet the thresholds for “substantial improvement” under § 55.2(b)(10), and the footprint of the structure and paved areas is not increased by more than 20 percent.
- (d) HUD's (or the recipient's) actions under any HUD program involving the repair, rehabilitation, modernization, weatherization, or improvement of existing nonresidential buildings and structures, in communities that are in the Regular Program of the NFIP and are in good standing, provided that the action does not meet the thresholds for “substantial improvement” under § 55.2(b)(10) and that the footprint of the structure and paved areas is not increased by more than 20 percent
- (e) HUD's or the recipient's actions under any HUD program involving the repair, rehabilitation, or replacement of existing nonstructural improvements including streets, curbs and gutters, where any increase of the total impervious surface area of the facility is de minimis. This provision does not include critical actions, levee systems, chemical storage facilities (including any tanks), wastewater facilities, or sewer lagoons.

*Continue to Question 8. Mitigation.*

8-Step Process applies.

Provide a completed 8-Step Process, including the early public notice and the final notice.

*Continue to Question 8. Mitigation.*

## **8. Mitigation**

**For the project to comply with this section, all adverse impacts must be mitigated. Explain in detail the measures that must be implemented to mitigate the impact or effect, including the timeline for implementation. Note: newly constructed and substantially improved structures within the FFRMS floodplain must be elevated to the FFRMS floodplain elevation or floodproofed, if applicable.**

N/A

**Which of the following if any mitigation/minimization measures have been identified for this project in the 8-Step or 5-Step Process? Select all that apply.**

- Buyout and demolition or other supported clearance of floodplain structures
- Insurance purchased in excess of statutory requirement under the Flood Disaster Protection Act of 1973
- Permeable surfaces
- Natural landscape enhancements that maintain or restore natural hydrology
- Planting or restoring native plant species
- Bioswales
- Stormwater capture and reuse
- Green or vegetative roofs with drainage provisions
- Natural Resources Conservation Service conservation easements or similar easements
- Floodproofing of structures as allowable (e.g. non-residential floors)
- Elevating structures (including freeboard above the required base flood elevations)
- Levee or structural protection from flooding
- Channelizing or redefining the floodway or floodplain through a Letter of Map Revision (LOMR)

*Based on the response, the review is in compliance with this section. Continue to the Worksheet Summary below.*

### **Worksheet Summary**

#### **Compliance Determination**

Provide a clear description of your determination and a synopsis of the information that it was based on, such as:

- FIRM panel numbers
- CISA data or maps
- Information on other data or tools used or accessed
- Names of all consulted parties and relevant consultation dates
- Names of plans or reports and relevant page numbers
- Any additional requirements specific to your region

**Include all documentation supporting your findings in your submission to HUD**

See below.

**Worksheet Summary for 2013 Version**  
**Compliance Determination**

Attach 'Floodplain Management Partner Worksheet' (OMB No. 2506-0177), FIRM map indicating project location, and summary of 8-step or 5-step decision making process if applicable.

Provide a clear description of your determination and a synopsis of the information that it was based on, such as:

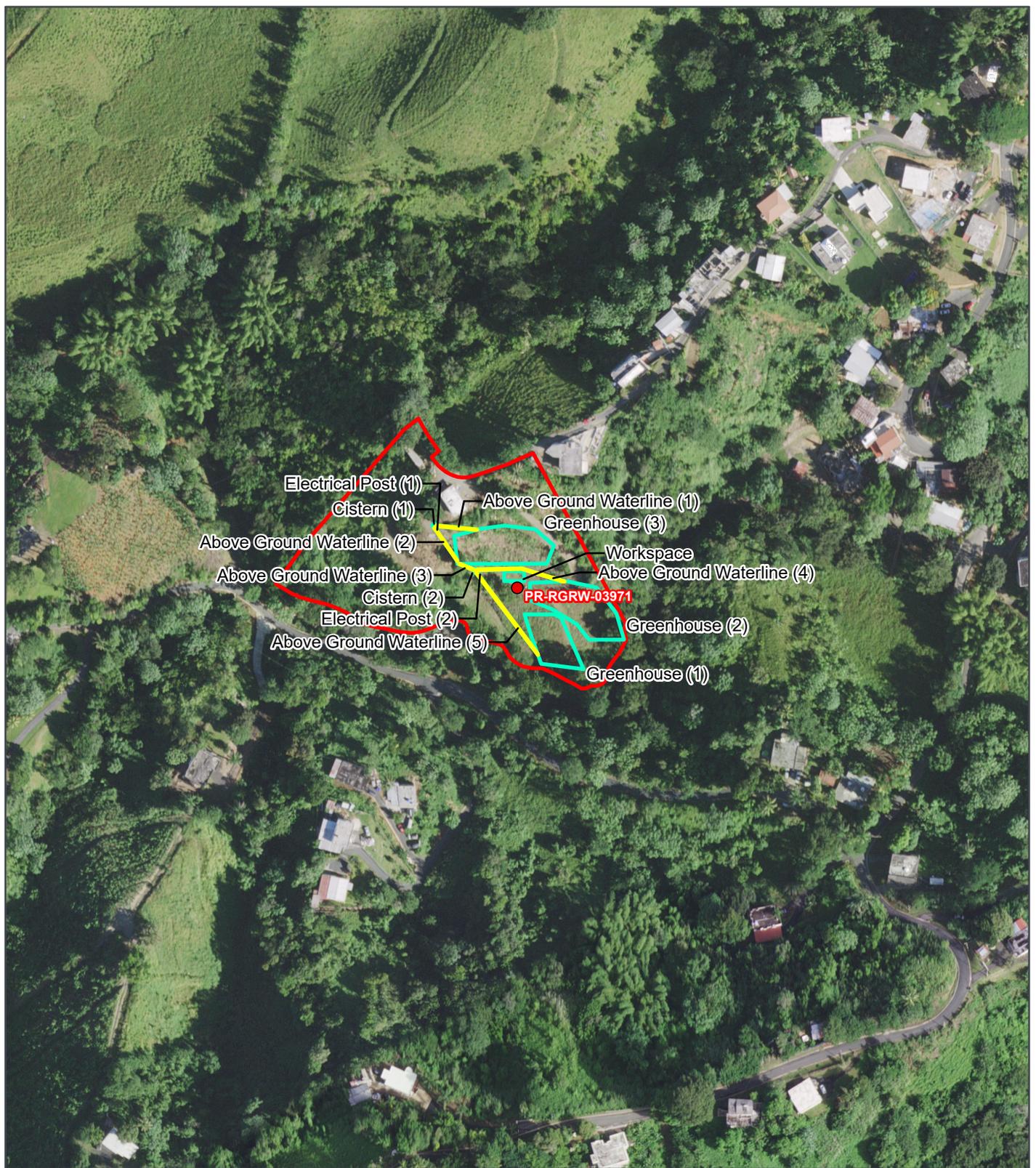
- Map panel numbers and dates
- Names of all consulted parties and relevant consultation dates
- Names of plans or reports and relevant page numbers
- Any additional requirements specific to your region

**Include all documentation supporting your findings in your submission to HUD**

An Advisory Base Flood Elevation (ABFE) map was developed by FEMA for this FIRM, which shows the project site is in Flood Zone X. The project is not located in the 100-year floodplain or ABFE special flood hazard area; therefore, no further action is required. The project is in compliance with Executive Order 11988.

PFIRMs in Puerto Rico were only developed for certain sections of the municipalities of Carolina, Canovanas, Loiza, San Juan and Trujillo Alto. The proposed project is located in the municipality of Naranjito; therefore, PFIRM information was not available for the area and therefore not considered in the review.

HUD implemented new floodplain regulations under 89 FR 30850 effective June 24, 2024 which created the Federal Flood Risk Management Standard (FFRMS). The current project comprises non-critical actions that lie outside the 0.2-percent-annual-chance (500-year flood elevation), which is the approach used for this project to comply with the FFRMS; therefore, mitigation is not required and the project is in compliance with 24 CFR Part 55.



REGROW PROGRAM

**Figure B 10-1:  
Advisory Base Flood  
Elevation For 100-Year  
Floodplain Map**

Applicant ID: PR-RGRW-03971

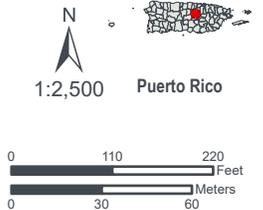


- Site
- Site Parcel
- Project Footprint (Option)
- Above Ground Utilities Location
- Advisory Base Flood Elevation (ABFE)
- 0.2% Annual Chance Flood
- 1% Annual Chance Flood
- Zone A
- Zone A-Floodway
- Zone AE
- Coastal A Zone
- Coastal A Zone and Floodway
- Zone AE-Floodway
- Zone AO
- Zone VE
- Zone X (500-year floodplain)
- Zone/BFE Boundary

Carr 811 Km 0.6 Int Bo. Cerdo Abajo,  
Sector Sabana  
Naranjito, Puerto Rico 00719

Parcel ID: 168-095-160-33-000  
18.279655, -66.281036

Data Source: [https://gis.fema.gov/arcgis/rest/services/DR/PuertoRico\\_ABFE\\_1PCT/MapServer](https://gis.fema.gov/arcgis/rest/services/DR/PuertoRico_ABFE_1PCT/MapServer)  
Base Map: USA NAIP Imagery  
Imagery Year: 2022  
Updated: 6/21/2024  
Layout: ABFE 1Pct  
Aprx: 72428\_ReGrowTier2Maps



## Attachment 11

# Historic Preservation Partner Worksheet, SHPO Consultation, and Cultural Resources Map



**U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT**  
WASHINGTON, DC 20410-1000

This Worksheet was designed to be used by those “Partners” (including Public Housing Authorities, consultants, contractors, and nonprofits) who assist Responsible Entities and HUD in preparing environmental reviews, but legally cannot take full responsibilities for these reviews themselves. Responsible Entities and HUD should use the RE/HUD version of the Worksheet.

## Historic Preservation (CEST and EA) – PARTNER

<https://www.hudexchange.info/environmental-review/historic-preservation>

### Threshold

#### Is Section 106 review required for your project?

- No, because a Programmatic Agreement states that all activities included in this project are exempt. (See the [PA Database](#) to find applicable PAs.)

**Either provide the PA itself or a link to it here. Mark the applicable exemptions or include the text here:**

Click here to enter text.

→ *Continue to the Worksheet Summary.*

- 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)].

**Either provide the memo itself or a link to it here. Explain and justify the other determination here:**

Click here to enter text.

→ *Continue to the Worksheet Summary.*

- Yes, because the project includes activities with potential to cause effects (direct or indirect). → *Continue to Step 1.*

#### **The Section 106 Process**

After determining the need to do a Section 106 review, HUD or the RE will initiate consultation with regulatory and other interested parties, identify and evaluate historic properties, assess effects of the project on properties listed on or eligible for the National Register of Historic Places, and resolve any adverse effects through project design modifications or mitigation.

Step 1: Initiate consultation

Step 2: Identify and evaluate historic properties

Step 3: Assess effects of the project on historic properties

Step 4: Resolve any adverse effects

Only RE or HUD staff may initiate the Section 106 consultation process. Partner entities may gather information, including from SHPO records, identify and evaluate historic properties, and make initial assessments of effects of the project on properties listed in or eligible for the National Register of Historic Place. Partners should then provide their RE or HUD with all of their analysis and documentation so that they may initiate consultation.

## Step 1 - Initiate Consultation

The following parties are entitled to participate in Section 106 reviews: Advisory Council on Historic Preservation; State Historic Preservation Officers (SHPOs); federally recognized Indian tribes/Tribal Historic Preservation Officers (THPOs); Native Hawaiian Organizations (NHOs); local governments; and project grantees. The general public and individuals and organizations with a demonstrated interest in a project may participate as consulting parties at the discretion of the RE or HUD official. Participation varies with the nature and scope of a project. Refer to HUD's website for guidance on consultation, including the required timeframes for response. Consultation should begin early to enable full consideration of preservation options.

Use the [When To Consult With Tribes checklist](#) within [Notice CPD-12-006: Process for Tribal Consultation](#) to determine if the RE or HUD should invite tribes to consult on a particular project. Use the [Tribal Directory Assessment Tool \(TDAT\)](#) to identify tribes that may have an interest in the area where the project is located. Note that only HUD or the RE may initiate consultation with Tribes. Partner entities may prepare a draft letter for the RE or HUD to use to initiate consultation with tribes, but may not send the letter themselves.

**List all organizations and individuals that you believe may have an interest in the project here:**  
PRDOH, SHPO, Applicant

→ Continue to Step 2.

## Step 2 - Identify and Evaluate Historic Properties

**Provide a preliminary definition of the Area of Potential Effect (APE), either by entering the address(es) or providing a map depicting the APE.** Attach an additional page if necessary.

The proposed project, which includes the construction and installation of three new greenhouses, is located on a 2.56-acre parcel (Parcel number 168-095-160-33-000) at Carretera 811 KM 0.6 Int Bo. Cerdo Abajo, Sector Sabana, Naranjito, Puerto Rico, 00719 (see Appendix A, Figure 1- Site Location and Figure 2- Site Vicinity). This property is in a rural area in the southwestern portion of Naranjito Municipio. Access to the project areas is provided via unpaved roads.

Gather information about known historic properties in the APE. Historic buildings, districts and archeological sites may have been identified in local, state, and national surveys and registers, local historic districts, municipal plans, town and county histories, and local history websites. If not already listed on the National Register of Historic Places, identified properties are then evaluated to see if they are eligible for the National Register. Refer to HUD's website for guidance on identifying and evaluating historic properties.

**In the space below, list historic properties identified and evaluated in the APE.**

Every historic property that may be affected by the project should be listed. For each historic property or district, include the National Register status, whether the SHPO has concurred with the finding, and whether information on the site is sensitive. Attach an additional page if necessary.

Archaeology - 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 archaeologist meeting the Secretary of the Interior's Professional Qualification Standards (36 CFR Part 61) who searched the records at the SHPO and the

Instituto de Cultura Puertorriqueña which shows that there are no reported archaeological materials or significant cultural properties within a half-mile (mi) radius of the project location. No archaeological evaluations and no studies of cultural resources have been conducted within the 0.5 mi review radius with no cultural resources found. There have been multiple surveys conducted within the 0.50-mi review area, discussed in further detail below. The proposed project is located in an agricultural estate, at an elevation of 1,347 ft (410 meters [m]) above mean sea level. Per the USGS/NRCS Web Soil Survey, the project area crosses two (2) mapped soil series: Consumo (CuF) clay and Anones humic (CuE), 40 to 60 percent slopes. These soils are classed as well drained. The project area APE is within a mountain ridge/summit and associated shoulder and backslope. The general project area is located on the hillside which gradually slopes southward. The closest freshwater source is the Rio Mavilla, which comprises the southern boundary of the parcel and project area and is immediately downslope to the south of the proposed locations for Greenhouse 1 and Greenhouse 2. The Atlantic coast is approximately 13 mi (21 km) from the project area.

Architecture - 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 the project area is not within the boundaries of a National Register of Historic Places (NRHP)-eligible or listed Traditional Urban Center or Historic District. There have been multiple surveys in the 0.50-mi review area, with the closest survey being Código SHPO#03-11-13-01. This survey was performed in 2017 for the rehabilitation of houses in different barrios, utilizing Community Development Block Grants (CDBG). Twenty-three (23) houses that are in the 0.50-mi review area were surveyed, with the closest house 0.08 mi from the project site and the farthest house was 0.63 mi from the project site. A finding of No Historic Properties was returned for all houses. The next survey was Código SHPO#03-15-16-02, which was performed in 2016 for the repaving of various roads in different barrios utilizing money from Housing and Urban Development (HUD) Department. Two (2) roads were surveyed for this project, with the closest one being 0.41-mi from the project site and the furthest one being 0.51-mi from the project site. A finding of No Historic Properties was returned for all properties surveyed. Código SHPO #04-02-12-05 was performed in 2012 and is confidential and only for SHPO internal affairs. The project involved the rehabilitation of the Theodore House which is 0.46-mi from the project site. A finding of No Historic Properties was returned for this survey. Código SHPO #05-12-14-01 was performed in 2014 for the repaving of various roads in different barrios utilizing money from CDBG. One (1) property was surveyed 0.48-mi from the project site, and a finding of No Historic Properties was returned. Código SHPO #10-03-14-05 was performed in 2016 for the repaving of various roads in different barrios utilizing money from CDBG. One (1) property was surveyed 0.56-mi from the project site, and a finding of No Historic Properties was returned. The final survey found at SHPO is Código SHPO #11-18-09-05 which was performed in 2009 for the rehabilitation of various houses in different barrios utilizing money from CDBG. One (1) property was surveyed 0.55-mi from the project site, and a finding of No Historic Properties was returned. No surveys or reports were found at ICP for the review area.

The project area is in a rural area of Cedro Abajo barrio, in Naranjito. The town of Naranjito is approximately 2.41 mi to the northeast of the project site. The area is mountainous with dense tropical vegetation. The project site sits on the downward slope of a mountain, with some housing to the west, south, and east of the project site. Historic aerials from 1962, 1967, and 1968 were reviewed (<https://www.historicaerials.com/viewer>) and show very few buildings in the area, and none that have survived until today. Google Earth shows that the area began to develop with more residential buildings in the mid-1990's. The owner's house was built in the "2010's" per the homeowner, and historic aerials show that the current house was not in place until 2012. As the project site sits on the downward slope of a ridge side and is surrounded by dense vegetation, the project site will not be visible from houses

west, east, and south of the project site, as vegetation and the elevation of the terrain will be blocking the view. Houses further to the south may see portions of the project site, but these houses are not historic and there is already existing farming infrastructure on the property, and the new greenhouses, electrical posts, and cisterns will not add new adverse visual effects to the area.

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

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

If the APE contains previously unsurveyed buildings or structures over 50 years old, or there is a likely presence of previously unsurveyed archeological sites, a survey may be necessary. For Archeological surveys, refer to HP Fact Sheet #6, [Guidance on Archeological Investigations in HUD Projects](#).

Yes → Provide survey(s) and report(s) and continue to Step 3.

Additional notes:

[Click here to enter text.](#)

No → Continue to Step 3.

**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 HUD guidance.

**Choose one of the findings below to recommend to the RE or HUD.**

**Please note: this is a recommendation only. It is **not** the official finding, which will be made by the RE or HUD, but only your suggestion as a Partner entity.**

No Historic Properties Affected

**Document reason for finding:**

No historic properties present.

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

No Adverse Effect

**Document reason for finding and provide any comments below.**

Comments may include recommendations for mitigation, monitoring, a plan for unanticipated discoveries, etc.

[Click here to enter text.](#)

Adverse Effect

**Document reason for finding:**

Copy and paste applicable Criteria into text box with summary and justification.

Criteria of Adverse Effect: [36 CFR 800.5](#)]

[Click here to enter text.](#)

**Provide any comments below:**

Comments may include recommendations for avoidance, minimization, and/or mitigation.

Click here to enter text.

*Remember to provide all documentation that justifies your National Register Status determination and recommendations along with this worksheet.*



**GOVERNMENT OF PUERTO RICO**  
STATE HISTORIC PRESERVATION OFFICE

Executive Director | Carlos A. Rubio-Cancela | [carubio@prshpo.pr.gov](mailto:carubio@prshpo.pr.gov)

August 18, 2023

**Lauren Bair Poche**

HORNE  
10000 Perkins Rowe, Suite 610, Bldg G  
Baton Rouge, LA 70810

SHPO 08-14-23-03 SECTION 106 NHPA EFFECT DETERMINATION SUBMITTAL:  
PR-RGRW-03971- ALBERTO LUIS RIVERA RIVERA – CARR. 811, KM 0.6 INT., BO.  
CERDO ABAJO, SECTOR SABANA, NARANJITO, PUERTO RICO

Dear Ms. Bair,

Our Office has received and reviewed the above referenced project in accordance with 54 U.S.C. 306108 (commonly known as Section 106 of the *National Historic Preservation Act*) and 36 CFR Part 800: *Protection of Historic Properties*.

Our records support your finding of **no historic properties affected** for this undertaking.

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

Sincerely,

Carlos A. Rubio-Cancela  
State Historic Preservation Officer

CARC/GMO/MB



August 14, 2023

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-03971 – Alberto Luis Rivera Rivera – Carr. 811 Km. .6 Bo. Cerdo Abajo, Sector Sabana, Naranjito, 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, we are submitting documentation for activities proposed by Alberto Luis Rivera Rivera at the property located at Carr. 811 Km. .6 in Bo. Cerdo Abajo, Sector Sabana in the municipality of Naranjito. The proposed activities consist of the purchase of various equipment (ground cover, materials, saran, tractor zero turn, blower, trimmer, saw, tractor), and the construction and installation of three new greenhouses. Between 2018 and 2019, the applicant plowed the property and created ditches in preparation for agricultural production. The project will involve some minor ground disturbance and possibly pruning of vegetation, but no tree clearing is required for construction.

The three (3) greenhouses will not require electricity. The applicant will power irrigation pumps using electricity from the applicant's house via existing poles and aboveground cables located adjacent to Greenhouses 1 and 2 and installing one (1) post adjacent to the cistern that will be installed for Greenhouse 3 in the field southwest of the applicant's house. The irrigation pumps and piping will also use aboveground piping and equipment that will be privately funded - these components are not included in the Intended Use of Grant Funds application. The applicant is seeking a permit from the Department of Natural and Environmental Resources (DNER) to eventually pump water directly from Rio Mavilla which forms the

southeastern property line, at a spot located approximately 20 feet south of Greenhouse Site 1. Until that permit is approved, the applicant will irrigate Greenhouses 1 and 2 from an existing aboveground cistern located approximately 20 ft southwest of Greenhouse Site 1 and on the north side of the river. This location will also be used as a workspace and will not require any land clearing other than pruning. Greenhouse 3 will be irrigated by a cistern and pump located in an existing field approximately 40 ft southwest of the applicant's house.

All irrigation piping and connections to the greenhouses and cisterns will use aboveground surface lines. As established in HUD's regulations, grant recipients and their partners are prohibited from committing or spending HUD or non-HUD funds on any activity that could have an adverse environmental impact. Although the activities to irrigate the greenhouse will be built using private funds, as elements of the project, the landowner and/or the contractor will contact the Department of Natural and Environmental Resources (DNER) prior to construction of these elements to determine permits and authorizations required.

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](mailto:lauren.poche@horne.com) or phone at 225-405-7676 with any questions or concerns.

Kindest regards,



**Lauren Bair Poche, M.A.**

Architectural Historian, Historic Preservation Senior Manager  
Attachments

<b>PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM</b> <b>REGROW PUERTO RICO PROGRAM</b> <b>Section 106 NHPA Effect Determination</b>		
<b>Applicant:</b> ALBERTO LUIS RIVERA RIVERA		
<b>Case ID:</b> PR-RGRW-03971	<b>City:</b> Naranjito	

<b>Project Location:</b> Carretera 811 KM 0.6 Int Bo. Cerdo Abajo, Sector Sabana, Naranjito, PR 00719	
<b>Project Coordinates:</b> Cistern 1: 18.279552, -66.281117 Cistern 2: 18.279366, -66.280939 Electrical post 1: 18.279535, -66.281105 Electrical post 2: 18.279358, -66.280922 Greenhouse 1: 18.279074, -66.280606 Greenhouse 2: 18.279212, -66.280489 Greenhouse 3: 18.279465, -66.280821 Workspace: 18.279343, -66.280772	
<b>TPID (Número de Catastro):</b> 168-095-160-33-000	
<b>Type of Undertaking:</b> <input type="checkbox"/> Substantial Repair/Improvements <input checked="" type="checkbox"/> New Construction	
<b>Construction Date (AH est.):</b> ca. 2012	<b>Property Size (acres): 2.56 acres total</b> Cistern 1: 0.000649 acres (28 sq. ft.) Cistern 2: 0.000649 acres (28 sq. ft.) Electrical post 1: 0.000018 acres (1 sq. ft.) Electrical post 2: 0.000018 acres (1 sq. ft.) Greenhouse 1: 0.101588 acres (4425 sq. ft.) Greenhouse 2: 0.166263 acres (7242 sq. ft.) Greenhouse 3: 0.166446 acres (7250 sq. ft.) Workspace: 0.010331 acres (450 sq. ft.)

<b>SOI-Qualified Architect/Architectural Historian:</b> Erin Edwards, M.P.S.
<b>Date Reviewed:</b> July 13, 2023
<b>SOI-Qualified Archaeologist:</b> Delise Torres-Ortiz, M.A.
<b>Date Reviewed:</b> July 17, 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 project includes the purchase of various equipment (ground cover, materials, saran, tractor zero turn, blower, trimmer, saw, tractor), and the construction and installation of three new greenhouses. The equipment that will be purchased by the applicant as listed in the Intended Use of Grant Funds falls under the "categorically excluded, not subject to (CENST)" category under HUD guidelines (24 CFR 58.35(b)(4)). The Environmental Assessment

<b>PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM</b> <b>REGROW PUERTO RICO PROGRAM</b> <b>Section 106 NHPA Effect Determination</b>		
<b>Applicant:</b> ALBERTO LUIS RIVERA RIVERA		
<b>Case ID:</b> PR-RGRW-03971	<b>City:</b> Naranjito	

will encompass the CENST review requirements for the equipment. The applicant owns the property; therefore, no acquisition is required. Based on a review of historical aerial imagery at <https://www.historicaerials.com/viewer>, the general area has been used for agriculture since at least 1962, the earliest date for which aerial data is present.

The proposed new greenhouses will be located in the eastern portion of the parcel and constructed in the “shade house” style. They will be irregular in shape and vary in size: Greenhouse 1 is approximately 4,425 square feet (sq. ft); Greenhouse 2 is approximately 7,242 sq. ft; and Greenhouse 3 is approximately 7,250 sq. ft in area. All three (3) greenhouses will be for growing and harvesting “recao” or cilantro directly on the ground. Between 2018 and 2019, the applicant plowed the property and created ditches in preparation for agricultural production. The project will involve some minor ground disturbance and possibly pruning of vegetation, but no tree clearing is required for construction.

Each greenhouse will be supported by hardwood posts that are 10 feet (ft) tall by 4 inches (in.) wide with the saran / cloth roofs fastened with steel wire and tightened using tensioners. There will be about 90 posts total at the three (3) locations, with each driven approximately 2 ft into the ground. The tensioners will be auger anchors or anchors placed into concrete bases that are 1x1 or 2x2 ft in size, also excavated up to 2 ft into the ground.

The three (3) greenhouses will not require electricity. The applicant will power irrigation pumps using electricity from the applicant’s house via existing poles and aboveground cables located adjacent to Greenhouses 1 and 2 and installing one (1) post adjacent to the cistern that will be installed for Greenhouse 3 in the field southwest of the applicant’s house. The irrigation pumps and piping will also use aboveground piping and equipment that will be privately funded - these components are not included in the Intended Use of Grant Funds application. The applicant is seeking a permit from the Department of Natural and Environmental Resources (DNER) to eventually pump water directly from Rio Mavilla which forms the southeastern property line, at a spot located approximately 20 feet south of Greenhouse Site 1. Until that permit is approved, the applicant will irrigate Greenhouses 1 and 2 from an existing aboveground cistern located approximately 20 ft southwest of Greenhouse Site 1 and on the north side of the river. This location will also be used as a workspace and will not require any land clearing other than pruning. Greenhouse 3 will be irrigated by a cistern and pump located in an existing field approximately 40 ft southwest of the applicant’s house.

All irrigation piping and connections to the greenhouses and cisterns will use aboveground surface lines. As established in HUD’s regulations, grant recipients and their partners are

<b>PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM</b> <b>REGROW PUERTO RICO PROGRAM</b> <b>Section 106 NHPA Effect Determination</b>	 <small>GOVERNMENT OF PUERTO RICO DEPARTMENT OF HOUSING</small>
<b>Applicant:</b> ALBERTO LUIS RIVERA RIVERA	
<b>Case ID:</b> PR-RGRW-03971	<b>City:</b> Naranjito

prohibited from committing or spending HUD or non-HUD funds on any activity that could have an adverse environmental impact. Although the activities to irrigate the greenhouse will be built using private funds, as elements of the project, the landowner and/or the contractor will contact the Department of Natural and Environmental Resources (DNER) prior to construction of these elements to determine permits and authorizations required.

### **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 for this project is the physical location of the greenhouses, electrical posts, and cisterns plus a 15-meter horizontal buffer to allow for some variation in final placement during construction and the visual APE is the viewshed of the proposed project.

### **Identification of Historic Properties - Archaeology**

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 archaeologist meeting the Secretary of the Interior’s Professional Qualification Standards (36 CFR Part 61) who searched the records at the SHPO and the Instituto de Cultura Puertorriqueña which shows that there are no reported archaeological materials or significant cultural properties within a half-mile (mi) radius of the project location. No archaeological evaluations and no studies of cultural resources have been conducted within the 0.5 mi review radius with no cultural resources found. There have been multiple surveys conducted within the 0.50-mi review area, discussed in further detail below. The proposed project is located in an agricultural estate, at an elevation of 1,347 ft (410 meters [m]) above mean sea level. Per the USGS/NRCS Web Soil Survey, the project area crosses two (2) mapped soil series: Consumo (CuF) clay and Anones humic (CuE), 40 to 60 percent slopes. These soils are classed as well drained. The project area APE is within a mountain ridge/summit and associated shoulder and backslope. The general project area is located on the hillside which gradually slopes southward. The closest freshwater source is the Rio Mavilla, which comprises the southern boundary of the parcel and project area and is immediately downslope to the south of the proposed locations for Greenhouse 1 and Greenhouse 2. The Atlantic coast is approximately 13 mi (21 km) from the project area.

<b>PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM</b> <b>REGROW PUERTO RICO PROGRAM</b> <b>Section 106 NHPA Effect Determination</b>	 GOVERNMENT OF PUERTO RICO DEPARTMENT OF HOUSING
<b>Applicant:</b> ALBERTO LUIS RIVERA RIVERA	
<b>Case ID:</b> PR-RGRW-03971	<b>City:</b> Naranjito

### Identification of Historic Properties - Architecture

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 the project area is not within the boundaries of a National Register of Historic Places (NRHP)-eligible or listed Traditional Urban Center or Historic District. There have been multiple surveys in the 0.50-mi review area, with the closest survey being Código SHPO#03-11-13-01. This survey was performed in 2017 for the rehabilitation of houses in different barrios, utilizing Community Development Block Grants (CDBG). Twenty-three (23) houses that are in the 0.50-mi review area were surveyed, with the closest house 0.08 mi from the project site and the farthest house was 0.63 mi from the project site. A finding of No Historic Properties was returned for all houses. The next survey was Código SHPO#03-15-16-02, which was performed in 2016 for the repaving of various roads in different barrios utilizing money from Housing and Urban Development (HUD) Department. Two (2) roads were surveyed for this project, with the closest one being 0.41-mi from the project site and the furthest one being 0.51-mi from the project site. A finding of No Historic Properties was returned for all properties surveyed. Código SHPO #04-02-12-05 was performed in 2012 and is confidential and only for SHPO internal affairs. The project involved the rehabilitation of the Theodore House which is 0.46-mi from the project site. A finding of No Historic Properties was returned for this survey. Código SHPO #05-12-14-01 was performed in 2014 for the repaving of various roads in different barrios utilizing money from CDBG. One (1) property was surveyed 0.48-mi from the project site, and a finding of No Historic Properties was returned. Código SHPO #10-03-14-05 was performed in 2016 for the repaving of various roads in different barrios utilizing money from CDBG. One (1) property was surveyed 0.56-mi from the project site, and a finding of No Historic Properties was returned. The final survey found at SHPO is Código SHPO #11-18-09-05 which was performed in 2009 for the rehabilitation of various houses in different barrios utilizing money from CDBG. One (1) property was surveyed 0.55-mi from the project site, and a finding of No Historic Properties was returned. No surveys or reports were found at ICP for the review area.

The project area is in a rural area of Cedro Abajo barrio, in Naranjito. The town of Naranjito is approximately 2.41 mi to the northeast of the project site. The area is mountainous with dense tropical vegetation. The project site sits on the downward slope of a mountain, with some housing to the west, south, and east of the project site. Historic aeriels from 1962, 1967,

<b>PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM</b> <b>REGROW PUERTO RICO PROGRAM</b> <b>Section 106 NHPA Effect Determination</b>	 GOVERNMENT OF PUERTO RICO DEPARTMENT OF HOUSING
<b>Applicant:</b> ALBERTO LUIS RIVERA RIVERA	
<b>Case ID:</b> PR-RGRW-03971	<b>City:</b> Naranjito

and 1968 were reviewed (<https://www.historicaerials.com/viewer>) and show very few buildings in the area, and none that have survived until today. Google Earth shows that the area began to develop with more residential buildings in the mid-1990's. The owner's house was built in the "2010's" per the homeowner, and historic aerials show that the current house was not in place until 2012. As the project site sits on the downward slope of a ridge side and is surrounded by dense vegetation, the project site will not be visible from houses west, east, and south of the project site, as vegetation and the elevation of the terrain will be blocking the view. Houses further to the south may see portions of the project site, but these houses are not historic and there is already existing farming infrastructure on the property, and the new greenhouses, electrical posts, and cisterns will not add new adverse visual effects to the area.

### Determination

The following historic properties have been identified within the APE:

- Direct Effect:
  - None
- Indirect Effect:
  - None

Based on the results of our historic property identification efforts, the Program has determined that project actions will not affect historic properties that compose the Area of Potential Effect. The project area 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. 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-03971 is located. The closest freshwater body is the Rio Mavilla, which comprises the southern boundary of the parcel and project area and is immediately downslope to the south of the proposed locations for Greenhouse 1 and Greenhouse 2. The size of the proposed project activities are very small (0.000649 acres x2, 0.000018 acres x2, and 0.166446 acres x3) and construction of public roads, residential structures, and agricultural infrastructure has impacted the surrounding terrain. Therefore, no impact to cultural properties is anticipated for this reconstruction project.

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM REGROW PUERTO RICO PROGRAM Section 106 NHPA Effect Determination		
<b>Applicant:</b> ALBERTO LUIS RIVERA RIVERA		
<b>Case ID:</b> PR-RGRW-03971	<b>City:</b> Naranjito	

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

The Puerto Rico Department of Housing requests that the Puerto Rico SHPO concur that the following determination is appropriate for the undertaking (Choose One):

- No Historic Properties Affected
- No Adverse Effect  
     Condition (if applicable):
- Adverse Effect  
     Proposed Resolution (if applicable)

**This Section is to be Completed by SHPO Staff Only**

The Puerto Rico State Historic Preservation Office has reviewed the above information and:	
<input type="checkbox"/> <b>Concurs</b> with the information provided. <input type="checkbox"/> <b>Does not concur</b> with the information provided.	
<b>Comments:</b>   	
Carlos Rubio-Cancela State Historic Preservation Officer	Date:



Applicant: ALBERTO LUIS RIVERA RIVERA

Case ID: PR-RGRW-03971

City: Naranjito

### Project (Parcel) Location – Area of Potential Effect Map (Aerial)



REGROW PROGRAM

#### Project Location Area of Potential Effects (APE) Map

Applicant ID: PR-RGRW-03971



- Site
- ▭ Site Parcel
- ▭ Project Footprint (Option)
- ▭ APE (Buffer (15-meters))

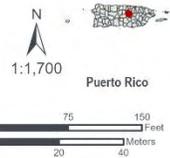
Carr 811 Km 0.6 Int Bo. Cerdo  
Abajo, Sector Sabana  
Naranjito, Puerto Rico 00719

Parcel ID: 168-095-160-33-000

Parcel Center:  
66.280759°W 18.279295°N

Base Map: ESRI ArcGIS Online  
accessed June 2023  
Updated: 6/27/2023

Layout: APE  
Aprx: 72428\_ReGrowTier2Maps



### Project (Parcel) Location - Aerial Map



REGROW PROGRAM

**Figure A-2:  
Site Vicinity**

Applicant ID: PR-RGRW-03971

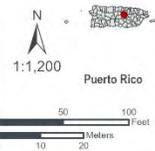


- Site
- ▭ Site Parcel
- ▭ Project Footprint (Option)

Carr 611 Km 0.6 Int Bo. Cerdo  
Abajo, Sector Sabana  
Naranjito, Puerto Rico 00719

Parcel ID: 168-095-160-33-000  
Parcel Center:  
66.281044°W 18.279437°N

Base Map: ESRI ArcGIS Online,  
accessed June 2023  
Updated: 6/27/2023  
Layout: Site Vicinity  
Aprx: 72428\_RegrowTex2Maps

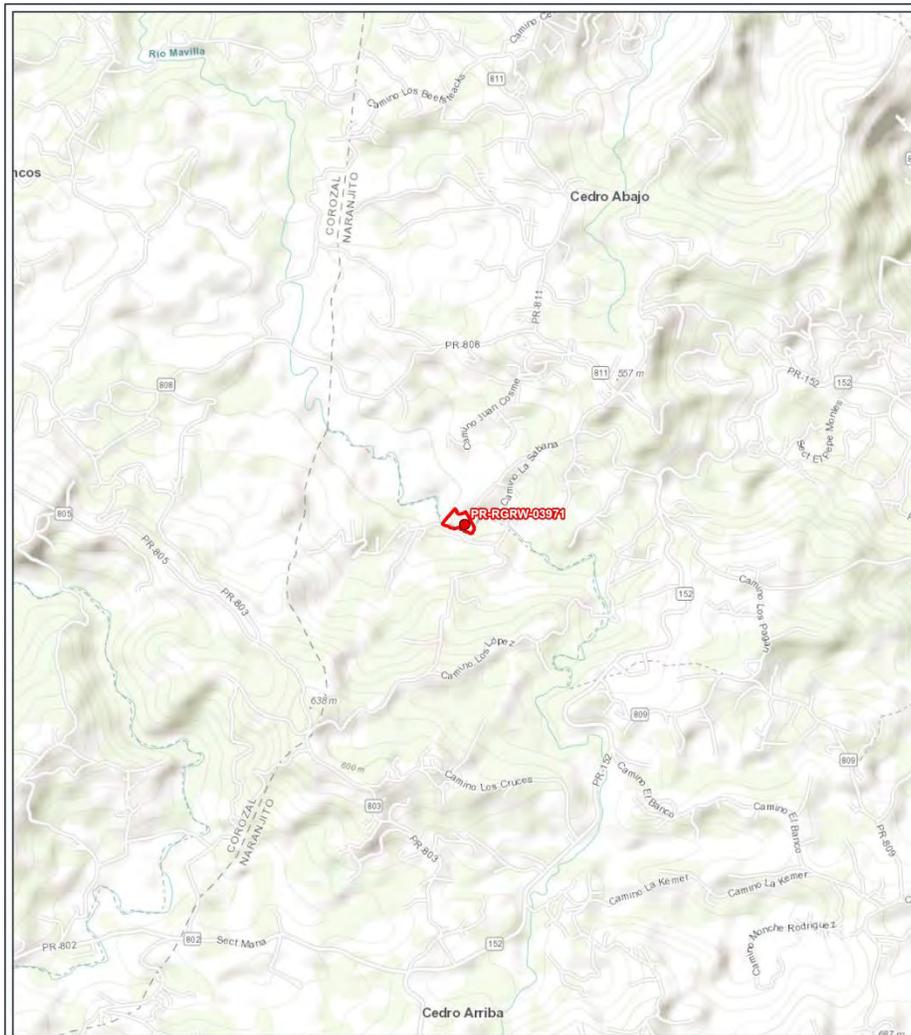


Applicant: ALBERTO LUIS RIVERA RIVERA

Case ID: PR-RGRW-03971

City: Naranjito

### Project (Parcel) Location - USGS Topographic Map



REGROW PROGRAM  
**Figure A-1:**  
**Site Location**  
 Applicant ID: PR-RGRW-03971

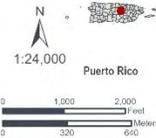


- Site
- Site Parcel

Carr 811 Km 0.6 Int Bo. Cedro Abajo, Sector Sabana Naranjito, Puerto Rico 00719

Parcel ID: 168-095-160-33-000  
 Parcel Center: 66.280759°W 18.279295°N

Base Map: ESRI ArcGIS Online, accessed June 2023  
 Updated: 6/27/2023  
 Layout: Site Location  
 Aprx: 72428\_RegrowTier2Maps



Applicant: ALBERTO LUIS RIVERA RIVERA

Case ID: PR-RGRW-03971

City: Naranjito

Project (Parcel) Location – Soils Map (Only if Archaeology Review is Required)



REGROW PROGRAM

USDA Soils Map

Applicant ID: PR-RGRW-03971



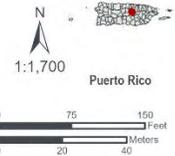
- Site
- ▭ Site Parcel
- ▭ Project Footprint (Option)
- ▭ Soil Mapunit

Carr 811 Km 0.6 Int Bo. Cerdo  
Abajo, Sector Sabana  
Naranjito, Puerto Rico 00719

Parcel ID: 168-095-160-33-000

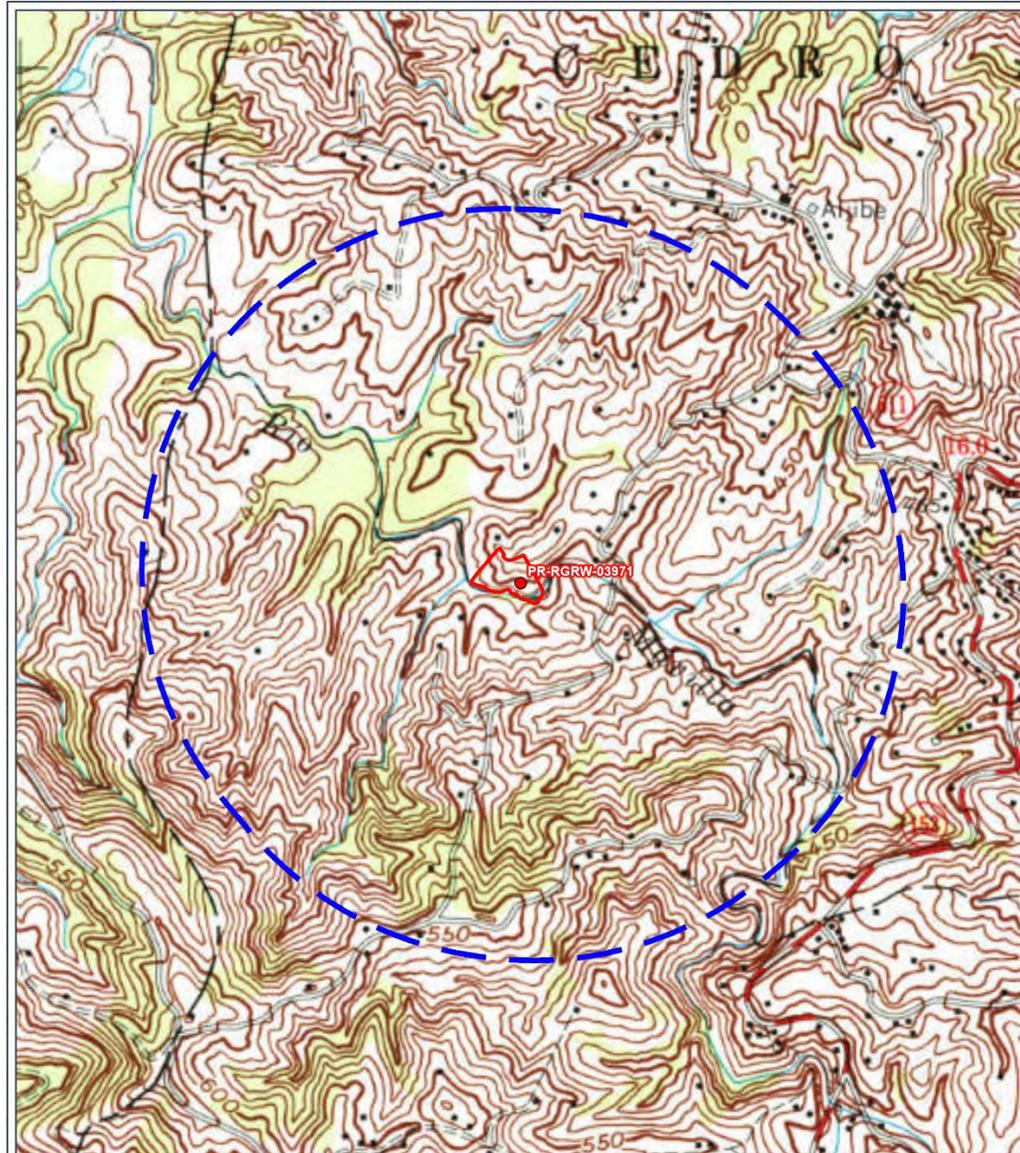
Parcel Center:  
66.280759°W 18.279295°N

Data Source: <https://websoilsurvey.nrcs.usda.gov/appl/>  
Base Map: ESRI ArcGIS Online,  
accessed June 2023  
Updated: 5/27/2023  
Layout: Soils  
Aprx: 72428\_RegrowTier2Maps





USGS Topographic Map



<p>REGROW PROGRAM</p> <p><b>Figure B 11-1: Previously Recorded Cultural Resources Map</b></p> <p>Applicant ID: PR-RGRW-03971</p> 	<ul style="list-style-type: none"> <li><span style="color: red;">●</span> Site</li> <li><span style="border: 1px solid red; padding: 2px;"> </span> Site Parcel</li> <li><span style="border-bottom: 2px dashed blue; width: 20px; display: inline-block;"></span> Buffer (0.5-mile)</li> <li><span style="color: orange;">▲</span> Archaeological Site</li> <li><span style="color: orange;">■</span> Historical Place</li> <li><span style="color: orange;">★</span> Historic Area Point</li> <li><span style="color: orange;">☆</span> JP Historical Sites</li> <li><span style="color: orange;">●</span> National Register of Historic Places</li> <li><span style="color: blue;">●</span> National Historic Landmark</li> <li><span style="color: green;">■</span> National Register of Historic Places</li> <li><span style="border: 1px solid purple; padding: 2px;"> </span> Historic Community</li> <li><span style="border: 1px solid purple; padding: 2px;"> </span> Historic District</li> <li><span style="color: purple;">■</span> Arroyo Historic Zone</li> <li><span style="color: purple;">■</span> Caguas Historic Zone</li> <li><span style="color: purple;">■</span> Coamo Historic Zone</li> <li><span style="color: purple;">■</span> Guayama Historic Zone</li> <li><span style="color: brown;">■</span> Manatí Historic Zone</li> <li><span style="color: blue;">■</span> Miramar Historic Zone</li> <li><span style="color: pink;">■</span> Ponce Historic Zone</li> <li><span style="color: green;">■</span> San German Historic Zone</li> <li><span style="color: orange;">■</span> San Juan Historic Zone</li> <li><span style="color: green;">■</span> Vega Baja Historic Zone</li> <li><span style="color: green;">■</span> Traditional Urban Centers</li> </ul>	<p>Carr 811 Km 0.6 Int Bo. Cerdo Abajo, Sector Sabana Naranjito, Puerto Rico 00719 Parcel ID: 168-095-160-33-000 Parcel Center: 66.280759°W 18.279295°N</p> <p>Data Source: State Historic Preservation Office and Puerto Rico Institute of Culture</p> <p>Base Map: ESRI ArcGIS Online, accessed June 2023 Updated: 6/27/2023 Layout: Cultural Resources Aprx: 72428_ReGrowTier2Maps</p>	 <p>1:12,000</p> 
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Photograph Key



Applicant: ALBERTO LUIS RIVERA RIVERA

Case ID: PR-RGRW-03971

City: Naranjito





Applicant: ALBERTO LUIS RIVERA RIVERA

Case ID: PR-RGRW-03971

City: Naranjito

<p><b>Photo #:</b> 01</p>	<p><b>Date:</b> 05/30/ 2023</p>	
<p><b>Photo Direction:</b> Southwest</p>		
<p><b>Description:</b> This picture is an overview of the site location for two greenhouses, specifically this area will have greenhouses #1 and #2, taken from the northeast corner showing the area's vegetation and the applicant's nephew.</p>		
<p><b>Photo #:</b> 02</p>	<p><b>Date:</b> 05/30/ 2023</p>	
<p><b>Photo Direction:</b> Northwest</p>		
<p><b>Description:</b> This picture is an overview of the site location for two greenhouses, #1 and #2, taken from the southeast corner showing the area's vegetation and the dirt/grass access road.</p>		

Applicant: ALBERTO LUIS RIVERA RIVERA

Case ID: PR-RGRW-03971

City: Naranjito

<p><b>Photo #:</b> 03</p>	<p><b>Date:</b> 05/30/ 2023</p>	
<p><b>Photo Direction:</b> North</p>		
<p><b>Description:</b> This picture is an overview of the site location for two greenhouses #1 and #2, taken from the center showing the area's vegetation, the dirt/grass access road, and two structure with a partial view of the project location.</p>		
<p><b>Photo #:</b> 04</p>	<p><b>Date:</b> 05/30/ 2023</p>	
<p><b>Photo Direction:</b> West</p>		
<p><b>Description:</b> This picture is an overview of the location of a cistern and electrical post for two greenhouses, #1 and #2, taken from the main access road showing the area's vegetation. This area will also serve as a workspace or laydown space.</p>		



Applicant: ALBERTO LUIS RIVERA RIVERA

Case ID: PR-RGRW-03971

City: Naranjito

<p><b>Photo #:</b> 05</p>	<p><b>Date:</b> 05/30/ 2023</p>	
<p><b>Photo Direction:</b> East</p>		
<p><b>Description:</b> This picture is an overview of the site location for greenhouse #3, taken from the center showing the area's vegetation towards the access road for the first location, southeast, and the third location, northwest.</p>		
<p><b>Photo #:</b> 06</p>	<p><b>Date:</b> 05/30/ 2023</p>	
<p><b>Photo Direction:</b> South</p>		
<p><b>Description:</b> This picture is an overview of the site location for greenhouse #3, taken from the center showing the area's vegetation towards Rio Malvilla (not visible).</p>		

Applicant: ALBERTO LUIS RIVERA RIVERA

Case ID: PR-RGRW-03971

City: Naranjito

<p><b>Photo #:</b> 07</p>	<p><b>Date:</b> 05/30/ 2023</p>	
<p><b>Photo Direction:</b> North</p>		
<p><b>Description:</b> This picture is an overview of the location for a cistern and an electrical post that will provide electricity for greenhouse #3 taken from the center showing the area's vegetation.</p>		
<p><b>Photo #:</b> 08</p>	<p><b>Date:</b> 05/30/ 2023</p>	
<p><b>Photo Direction:</b> South</p>		
<p><b>Description:</b> This picture is an overview of the location for a cistern and an electrical post that will provide electricity for greenhouse #3 taken from the center showing the area's vegetation.</p>		



Applicant: ALBERTO LUIS RIVERA RIVERA

Case ID: PR-RGRW-03971

City: Naranjito

Photo #:  
09

Date:  
05/30/  
2023

**Photo Direction:**

South

**Description:**

This picture presents the applicant's residence, built ca. 2012





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.

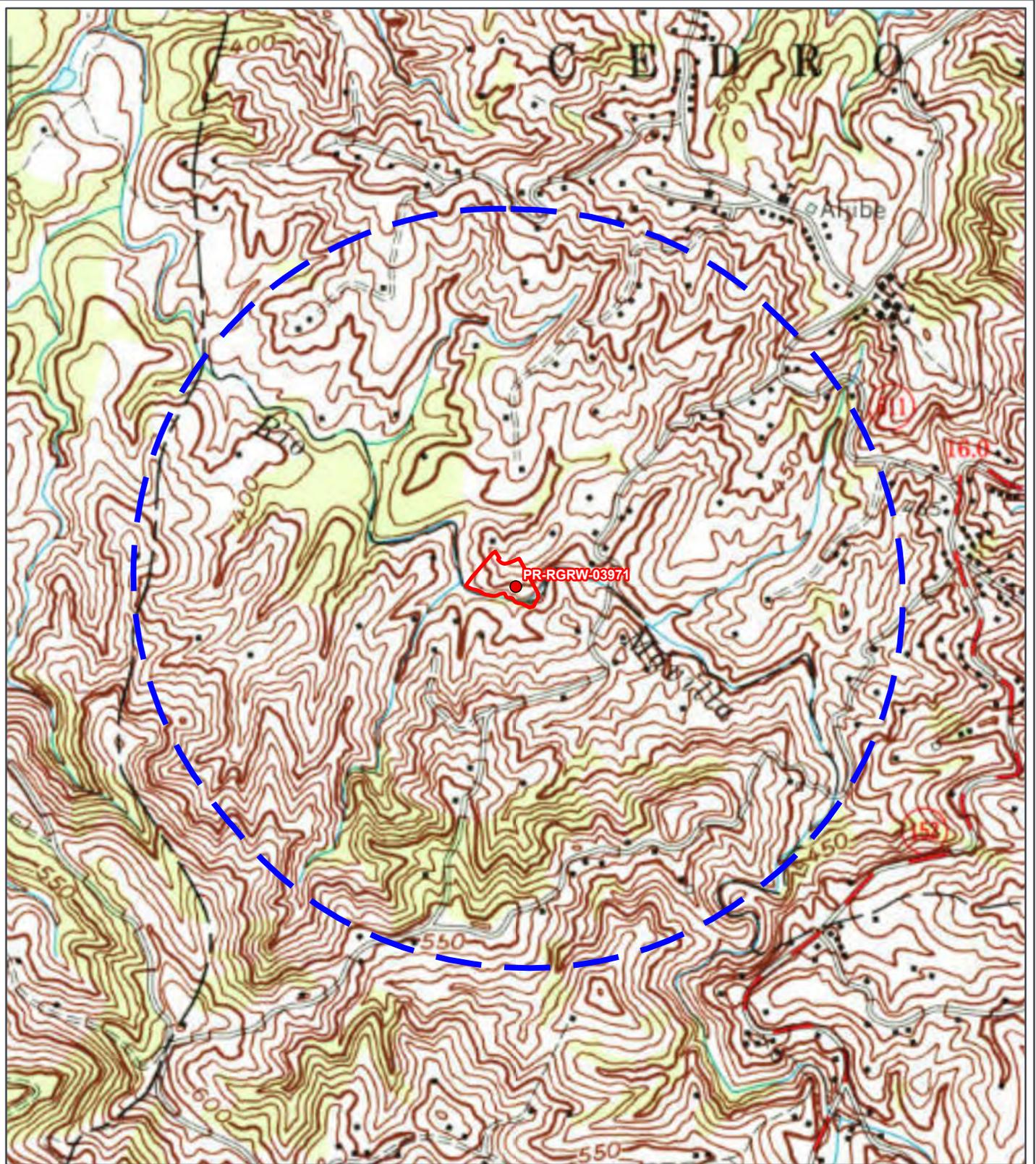
Cordially,

A handwritten signature in blue ink, appearing to read 'Juan C. Pérez Bofill', is placed over the typed name.

Juan C. Pérez Bofill, P.E. M.Eng

Director of Disaster Recovery

CDBG DR-MIT



REGROW PROGRAM

**Figure B 11-1:  
Previously Recorded  
Cultural Resources  
Map**

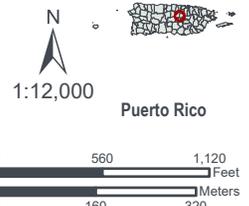
Applicant ID: PR-RGRW-03971



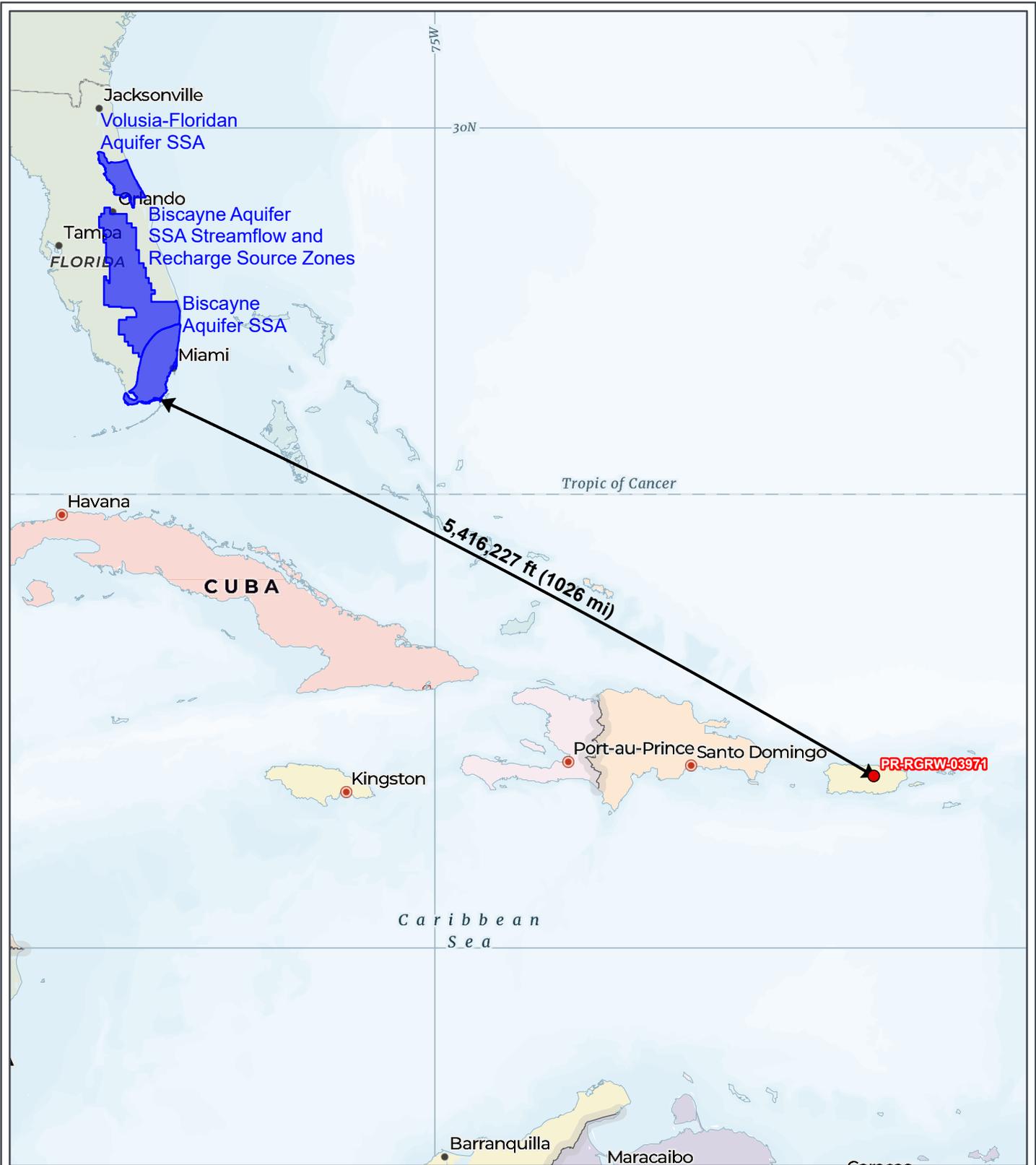
- |  |  |                             |
|--|--|-----------------------------|
| ● Site                                 | ● National Historic Landmark           | ■ Manati Historic Zone      |
| ▭ Site Parcel                          | ■ National Register of Historic Places | ■ Miramar Historic Zone     |
| — Buffer (0.5-mile)                    | ■ Historic Community                   | ■ Ponce Historic Zone       |
| ▲ Archaeological Site                  | ■ Historic District                    | ■ San German Historic Zone  |
| ■ Historical Place                     | ■ Arroyo Historic Zone                 | ■ San Juan Historic Zone    |
| ★ Historic Area Point                  | ■ Caguas Historic Zone                 | ■ Vega Baja Historic Zone   |
| ◆ JP Historical Sites                  | ■ Coamo Historic Zone                  | ■ Guayama Historic Zone     |
| ● National Register of Historic Places | ■ Guayama Historic Zone                | ■ Traditional Urban Centers |

Carr 811 Km 0.6 Int Bo. Cerdo  
Abajo, Sector Sabana  
Naranjito, Puerto Rico 00719  
Parcel ID: 168-095-160-33-000  
18.279655, -66.281036

Data Source: State Historic Preservation Office and Puerto Rico Institute of Culture  
Base Map: ESRI ArcGIS Online, accessed June 2023  
Updated: 6/27/2023  
Layout: Cultural Resources  
Aprx: 72428\_ReGrowTier2Maps



**Attachment 12**  
**Sole Source Aquifer Worksheet and**  
**Map**



REGROW PROGRAM

**Figure 12-1: Sole Source Aquifers Map**

Applicant ID: PR-RGRW-03971

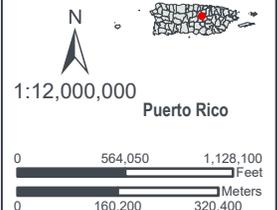


- Site
- Sole Source Aquifers

**\*There are no Sole Source Aquifers in Puerto Rico.**

Carr 811 Km 0.6 Int Bo. Cerdo  
 Abajo, Sector Sabana  
 Naranjito, Puerto Rico 00719  
 Parcel ID: 168-095-160-33-000  
 18.279655, -66.281036

Data Source: <https://services.arcgis.com/cJ9YHowT8TU7DUyn/arcgis/rest/services/SoleSourceAquifers/FeatureServer>  
 Base Map: ESRI ArcGIS Online, accessed February 2024  
 Updated: 2/23/2024  
 Layout: Sole Source Aquifers  
 Aprx: 72428\_ReGrowTier2Maps



**Attachment 13**  
**Wetlands Protection Partner Worksheet**  
**and Map**



**U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT**  
WASHINGTON, DC 20410-1000

This Worksheet was designed to be used by those “Partners” (including Public Housing Authorities, consultants, contractors, and nonprofits) who assist Responsible Entities and HUD in preparing environmental reviews, but legally cannot take full responsibilities for these reviews themselves. Responsible Entities and HUD should use the RE/HUD version of the Worksheet.

## Wetlands (CEST and EA) – Partner

<https://www.hudexchange.info/environmental-review/wetlands-protection>

**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" includes draining, dredging, channelizing, filling, diking, impounding, and related activities and construction of any structures or facilities.

No → *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below.*

Yes → *Continue to Question 2.*

**2. Will the new construction or other ground disturbance impact a wetland as defined in E.O. 11990?**

No → *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide a map or any other relevant documentation to explain your determination.*

Yes → *Work with HUD or the RE to assist with the 8-Step Process.* *Continue to Question 3.*

**3. Does Section 55.12 state that the 8-Step Process is not required?**

No, the 8-Step Process applies.

This project will require mitigation and may require elevating structure or structures. See the link to the HUD Exchange above for information on HUD’s elevation requirements.

→ *Work with the RE/HUD to assist with the 8-Step Process. Continue to Worksheet Summary.*

5-Step Process is applicable per 55.12(a).

**Provide the applicable citation at 24 CFR 55.12(a) here.**

[Click here to enter text.](#)

→ *Work with the RE/HUD to assist with the 5-Step Process. This project may require mitigation or alternations. Continue to Worksheet Summary.*

8-Step Process is inapplicable per 55.12(b).

**Provide the applicable citation at 24 CFR 55.12(b) here.**

[Click here to enter text.](#)

→ If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to Worksheet Summary.

8-Step Process is inapplicable per 55.12(c).

**Provide the applicable citation at 24 CFR 55.12(c) here.**

[Click here to enter text.](#)

→ If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to Worksheet Summary.

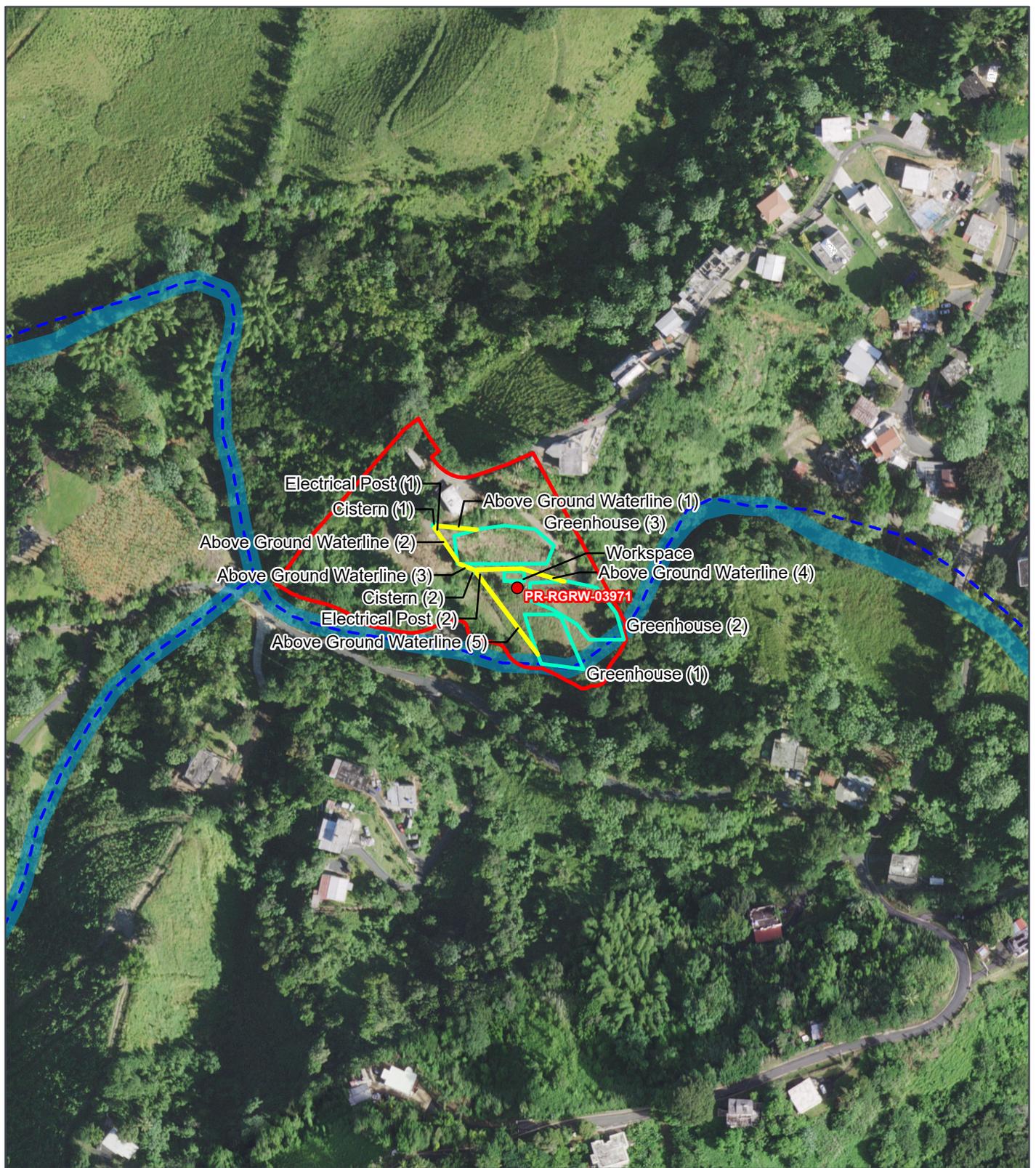
### **Worksheet Summary**

Provide a full description of your determination and a synopsis of the information that it was based on, such as:

- Map panel numbers and dates
- Names of all consulted parties and relevant consultation dates
- Names of plans or reports and relevant page numbers
- Any additional requirements specific to your program or region

### **Include all documentation supporting your findings in your submission to HUD.**

The project sites were reviewed for wetlands using the USFWS Wetland Inventory Mapper and a visual confirmation during the field site inspection. A riverine wetland (shown as an NHD stream on Figure B 12-1) runs through the footprints for Greenhouses 1 and 2 on aerial imagery; however, aerial imagery and a field verification indicate that the riverine wetland is actually located entirely outside of the property boundary and not within the boundaries of the proposed greenhouse sites. The 8-Step process was completed and determined that the wetland will not be affected by project activities if best management practices, such as silt fencing and erosion control, are implemented during any ground-disturbing activities. No further evaluation is required. The project is in compliance with Executive Order 11990. Note- the NWI online webmapper, accessed on March 31, 2023, shows this NHD stream is a riverine wetland.



REGROW PROGRAM

**Figure B 13-1:  
Wetlands Protection  
Map**

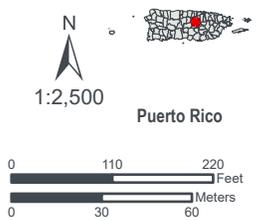
Applicant ID: PR-RGRW-03971



- Site
- Site Parcel
- Project Footprint (Option)
- Above Ground Utilities Location
- NHD Stream
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Riverine

Carr 811 Km 0.6 Int Bo. Cerdo  
Abajo, Sector Sabana  
Naranjito, Puerto Rico 00719  
Parcel ID: 168-095-160-33-000  
18.279655, -66.281036

Data Source: <https://apps.nationalmap.gov/downloader/#/>  
<https://www.fws.gov/program/national-wetlands-inventory/data-download>  
Base Map: USA NAIP Imagery  
Imagery Year: 2022  
Updated: 6/21/2024  
Layout: Wetlands Protection



PUERTO RICO DEPARTMENT OF HOUSING  
ALBERTO LUIS RIVERA RIVERA (PR-RGRW-03971)  
NARANJITO, PUERTO RICO

**Procedure for Making Determination on Wetlands Eight Step Process**

The Puerto Rico Department of Housing (PRDOH) intends to use U.S. Department of Housing and Urban Development (HUD) - Community Development Block Grant (CDBG) funding to engage in improvements for the construction and installation of three new greenhouses. The PR-RGRW-03971 project is proposed to take place at Carretera 811 KM 0.6 Int Barrio Cerdo Abajo, Sector Sabana, Naranjito, Puerto Rico 00719; 18.279655, -66.281036.

The proposed project includes the construction and installation of three new greenhouses. Greenhouse 1 is approximately 4,425 square feet (sq ft); Greenhouse 2 is approximately 7,242 sq ft; and Greenhouse 3 is approximately 7,250 sq ft. Each greenhouse will be constructed using hardwood posts that will be 10 ft tall by 4 inches (in) wide and extend a maximum of 2 ft into the ground with the saran roofs fastened with steel wire and tightened using tensioners. The tensioners will be auger anchors secured into concrete footers ranging in width from 12-24 in and also extending 2 ft into ground. All three greenhouses will be used for growing and harvesting cilantro, helping to increase agricultural production on the farm and support continued local agricultural production.

Pursuant to Executive Order 11990, the PRDOH has determined based on National Wetlands Inventory (NWI) Map that some project activities are mapped as occurring in a potential wetland. Therefore EO 11990 applies, which was enacted "*in order to avoid to the extent possible the long and short term adverse impacts associated with the destruction or modification of wetlands and to avoid direct or indirect support of new construction in wetlands wherever there is a practicable alternative*". According to the NWI Map, the Rio Mavilla, a riverine wetland, crosses the Greenhouse 1 and Greenhouse 2 sites in the southeastern part of the parcel however, the site-visit and photo interpretation of ortho imagery shows that the Rio Mavailla, is actually south southeast of the project footprint and while it is in proximity to the project area direct impact is not anticipated. Neither of the greenhouses will be located within the Rio Mavailla.

Based on the attached wetlands map which includes the NWI and National Hydrography Datasets (NHD), approximately 0.011 acres of the Greenhouse 1 site and 0.019 acres of Greenhouse 2 site are within the mapped area of this wetland. Detailed below is a summary of the eight-step process and how the PRDOH has or will comply with EO 11990.

### **Step 1- Determination of whether the proposed action is located within a wetland**

Regarding EO 11990, approximately 0.030 acres of the proposed activity areas (0.011 acres of the Greenhouse 1 site and 0.019 acres of the Greenhouse 2 site) are located within a mapped NWI and/or NHD wetland. However, an onsite field verification and photo interpretation of ortho imagery indicate that Rio Mavilla and its associated wetland is actually located entirely outside of the property boundary, to the south, and not within the boundaries of the proposed greenhouse sites. There will be no direct impacts to the identified riverine wetland and indirect impacts are expected to be minimal as a result of this action with the implementation of best management practices (BMPs), such as proper site management, erosion and sedimentation control measures, and soil stabilization.

### **Step 2- Early Notification and Involvement of the Public in the Decision-Making Process**

The Re-grow PR Urban-Rural Agriculture Program, under the Puerto Rico Community Development Block Grant Program for Disaster Recovery (CDBG-DR) allocated funds to help shape and implement the future vision in communities that were affected by Hurricanes Irma and María.

Based on the program goals, it was determined for Naranjito that this project, the construction of three new greenhouses, would be beneficial to the surrounding community. For the improvements, the Municipality of Naranjito and PRDOH notified the public of the proposed actions located within the potential wetlands through an Early Wetlands Notice in local newspapers, for purposes of eliciting public comments for consideration during this review.

Copies of the Early Wetlands Notice were sent to potentially interested parties, such as the Environmental Protection Agency, State Environmental Natural Resources Department, Puerto Rico Planning Board, Puerto Rico Department of Economic Development Commerce, Federal Emergency Management Agency, the National Oceanic and Atmospheric Administration, U.S. Department of Housing and Urban Development, Fish and Wildlife Service, the United States Department of Agriculture Natural Resource Conservation Service, the State Department of Transportation and Public Works. A copy of the Early Wetlands Notice has been included within the Environmental Review Record for this action. No comments were received during the 15-day public comment period applicable to the Early Wetlands Notice published November 6, 2023 in the eVocero.

### **Step 3- Identification and Evaluation of Practicable Alternatives.**

This project includes the construction of three new greenhouses. The project aims to increase agricultural production and support continued local agricultural production during future disasters. In accordance with the Department of Housing and Urban Development guidelines, practical alternatives to locating the proposed action in a wetland were identified and evaluated. These included the following alternatives:

- 1) Constructing greenhouses on other areas of the property;
- 2) Not constructing Greenhouses 1 and 2
- 3) Impact of taking no action.

For each of these alternatives, various factors were considered including cost, feasibility, technology, hazard reduction, and environmental impacts. The evaluation of each alternative is summarized below.

#### **Alternative 1**

Relocation of Greenhouses 1 and 2 - Constructing greenhouses on other areas of the property – Alternative locations on the property that are not in proximity to a wetland area include the north and northwest portions of the property. This alternative would eliminate the potential for impacts to wetlands; however, as supported by photo interpretation of ortho imagery, Rio Mavilla is south southeast of the project footprint and, while it is in proximity to the project area, direct impact is not anticipated. None of the greenhouses will be located within Rio Mavilla. Additionally, these alternative areas are covered in dense vegetation and would require tree clearing to construct a greenhouse. The optimal locations for constructing the three greenhouses are the open areas in the central and southeastern portions of the parcel since these areas will only require minimal ground disturbance.

#### **Alternative 2**

Reduction in Scope - Not constructing Greenhouses 1 and 2 and instead only constructing greenhouse 3, located in the central portion of the property would eliminate the potential for impacts to wetlands; however, as supported by photo interpretation of ortho imagery, Rio Mavilla is south southeast of the project footprint and, while it is in proximity to the project area, direct impact is not anticipated. None of the greenhouses will be located within Rio Mavilla. If the applicant only constructed Greenhouse 3, he could not improve his agricultural production as well as he could with multiple greenhouses. His business and agricultural production on Puerto Rico would suffer.

#### **Alternative 3**

No Action – Under the No Action Alternative, the applicant would not receive federal funding to construct three new greenhouses. Consequently, the applicant may not be able to recover and continue agricultural production. Given the degree of need for greater agricultural capacity in Puerto Rico following Hurricanes Irma and María, the costs of foregoing the project would exceed the benefits.

#### **Step 4- Potential Direct and Indirect Impact of the Proposed Action on Wetlands**

Based on NWI and/or NHD wetland maps, potential direct and indirect impacts resulting from the proposed action on the wetland are projected to be the loss of 0.03 acres of riverine wetlands. However, photo interpretation of ortho imagery show that Rio Mavilla is south southeast of the project footprint and, while it is in proximity to the project area, direct impact is not anticipated. None of the greenhouses will be located within Rio Mavilla. In addition, the two greenhouses will be open construction without walls or the use of a platform that would involve land disturbance. The greenhouses will employ hardwood posts (10 feet tall by 4 inches wide) with the saran roofs fastened with steel wire.

Due to its proximity to Rio Mavilla, the project does have the potential to indirectly disturb or alter water quality, as stormwater flow across a construction site can transport sediment and construction waste materials into adjacent surface waters or wetlands. The project will minimize these impacts by requiring applicant contractors to use appropriate best management practices (including proper site management, implementation and maintenance of erosion and sedimentation control measures, and soil stabilization) during construction activities.

#### **Step 5- Minimization of Potential Adverse Impacts via Design or Modifications to the Proposed Actions**

Best management practices, such as proper site management, implementation and maintenance of erosion and sedimentation control measures, and soil stabilization will be followed to minimize potential impacts to wetlands.

#### **Step 6- Reevaluation of the Proposed Action**

With respect to wetlands and waters of the United States, the proposed project actions do not lie within any wetlands as identified by the NWI and/or NHD. Based on the minimal impacts that are anticipated to result under the project activities, as noted in Step 4 and a review of the practical alternatives and their implementation wherever possible, the proposed action of the (PR-RGRW-03971) project is deemed to be the most appropriate and is selected as the final action. This determination is made on the basis of feasibility, cost, enhancement of quality of life, features for the community, land availability, current land use, and lack of significant impacts to wetlands.

#### **Step 7- Publication of the Final Notice**

In our reevaluation we have determined that there is no other practical alternative to the proposed actions. Therefore, a Final Wetland Explanation Notice for the (PR-RGRW-03971) project was published in the local newspapers in Naranjito, Puerto Rico. This notice cites the reasons why the proposed actions must be located within the mapped wetlands, a list of the alternatives considered, and the design modifications taken to minimize adverse impacts.

#### **Step 8- Implementation of the Proposed Action**

The proposed action is anticipated to begin in calendar year 2024.



REGROW PROGRAM

**Figure B 14-1:  
Wetlands Protection  
Map**

Applicant ID: PR-RGRW-03971

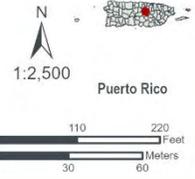


- Site
- Site Parcel
- Project Footprint (Option)
- NHD Stream
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Riverine

Carr 811 Km 0.6 Int Bo. Cerdo  
Abajo, Sector Sabana  
Naranjito, Puerto Rico 00719

Parcel ID: 168-095-160-33-000  
Parcel Center:  
66.280759°W 18.279295°N

Data Source: <https://apps.nationalmap.gov/downloader/#/>  
<https://www.fws.gov/program/national-wetlands-inventory/data-download>  
Base Map: ESRI ArcGIS Online,  
accessed June 2023  
Updated: 6/27/2023  
Layout: Wetlands Protection



# **WETLAND PUBLICATIONS**

et. Ave. Alameda, Plaza Real STE 300, Quezon PR 00986, teléfono (787) 646-2628, correo electrónico: [info@sigra.com](mailto:info@sigra.com) con el que se puede acceder a la aplicación y realizar lo que se solicita. La Demanda presentada en su carta dentro del término de veinte (20) días de la publicación de este edicto, se le declaró rebeldía y se dictó una sentencia en el contra, conforme se solicita en la Demanda, de más que el auto Excepcional que firma y sello del Tribunal, hoy 30 de junio de 2023, LDOA LAURA I SANTI SANCHEZ, Nombre del Secretario, Firma del Secretario, Fecha 30 de junio de 2023 HERMIÓN, L. FOLCON, LOPEZ, Nombre del Subsecretario, Firma del Subsecretario, Fecha 30 de junio de 2023.

**RAMONITA OCASIO RIVERA**  
Unipersonal  
Caso Núm. C-12023-00003 Sobre DIVORCIO - RUPTURA IRREPARABLE IVAN MONTALVO BURGOS MONTALVO y IVIS Q. YANIZ. CDM NOTIFICACION DE SENTENCIA POR EDICTO (Noviembre de las partes que se le notifica la sentencia por edicto) y SE MONITA OCASIO RIVERA EL SECRETARÍA (A) que cubre el término a contar que el 26 DE OCTUBRE DE 2023, este Tribunal ha dictado Sentencia Sentencia Parcial o Resolutoria en este caso, que ha sido totalmente reparada y archivada en autos donde podrá usarse en forma definitiva en los términos de la misma. Esta notificación se publicará una sola vez en un periódico de circulación general en la isla de Puerto Rico, dentro de los 10 días siguientes a su notificación y, dentro de representando así una parte en el procedimiento, según a los términos de la Sentencia, Sentencia Parcial o Resolutoria, de la cual puede establecerse respecto de revisión o apelación

dentro del término de 10 días contados a partir de la publicación en autos de esta notificación, dirigiéndose a la notificación que se considerará hecha en la fecha de la publicación de este edicto. Copia de esta notificación ha sido archivée en los autos de este caso, con fecha de 02 de NOVIEMBRE de 2023 en CASAS, Puerto Rico, el 02 de NOVIEMBRE de 2023, LUSIDA MARTINEZ AGOSTO, Nombre del Jefe del Secretariado, Nombre y Firma del Jefe del Secretariado, Auxiliar del Tribunal

**MICHAEL RAYMOND MARTINEZ RODRIGUEZ**  
Caso Núm. D42018C00047E Sobre LIQUIDACION Y PARTICION DE HERENCIA NOTIFICACION DE SENTENCIA POR EDICTO (Nombre de las partes que se le notifica la sentencia por edicto) a MICHAEL RAYMOND MARTINEZ y DORISQUE E. EL SECRETARÍA (A) que cubre el término a contar que el 28 DE FEBRERO DE 2023, este Tribunal ha dictado Sentencia Sentencia Parcial o Resolutoria en este caso, que ha sido totalmente reparada y archivada en autos donde podrá usarse en forma definitiva en los términos de la misma. Esta notificación se publicará una sola vez en un periódico de circulación general en la isla de Puerto Rico, dentro de los 10 días siguientes a su notificación y, dentro de representando así una parte en el procedimiento, según a los términos de la Sentencia, Sentencia Parcial o Resolutoria, de la cual puede establecerse respecto de revisión o

apelación dentro del término de 10 días contados a partir de la publicación en autos de esta notificación, dirigiéndose a la notificación que se considerará hecha en la fecha de la publicación de este edicto. Copia de esta notificación ha sido archivée en los autos de este caso, con fecha de 28 de octubre de 2023 en Carolina, Puerto Rico, el 28 de octubre de 2023, KAMELLI ZAVAS ROSLER, Nombre del Jefe del Secretariado, Nombre y Firma del Jefe del Secretariado, Auxiliar del Tribunal

LE-2166 ESTADO LIBRE ASOCIADO DE PUERTO RICO TRIBUNAL DE PRIMERA INSTANCIA CENTRO JUDICIAL DE CASAS SALA SUPERIOR DE CASAS SALON DE SESIONES SALON 601  
**CARMELO ORTIZ COLON**  
Comisario

LE-2167 ESTADO LIBRE ASOCIADO DE PUERTO RICO TRIBUNAL DE PRIMERA INSTANCIA CENTRO JUDICIAL DE CASAS SALA SUPERIOR DE CASAS SALON DE SESIONES SALON 601  
**MICHAEL ALBIE MARTINEZ RODRIGUEZ Y OTROS**  
Demandante

LE-2167 ESTADO LIBRE ASOCIADO DE PUERTO RICO TRIBUNAL DE PRIMERA INSTANCIA CENTRO JUDICIAL DE CASAS SALA SUPERIOR DE CASAS SALON DE SESIONES SALON 601  
**MICHAEL ALBIE MARTINEZ RODRIGUEZ Y OTROS**  
Demandante

Si buscas un buen carro usado, vivienda, maquinaria, clasificados de El Vocero.

Si buscas un buen carro usado, vivienda, maquinaria, clasificados de El Vocero.

**>ESQUELAS**

**Funeraria y Capillas LA SANTA CRUZ**  
Funeraria y Capillas  
1200 Ave. Lucea  
San Juan, Puerto Rico  
(787) 878-6565 / 878-1156

**FUNERARIA Y CAPILLAS GONZALEZ**  
Necrops, Puerto Rico  
• Fama de Tradición  
• Cremación  
• Pre-Arraigos Funerarios  
(787) 878-0464  
(787) 878-5920

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**aviso público**

Aviso Preliminar y Revisión Pública de una Actividad Propuesta en un Humedal

Alberto Luis Rivera Rivera  
PR-RGRW-03971

Para Todos las partes interesadas, grupos e individuos

Este aviso notifica que el Departamento de la Vivienda de Puerto Rico (Vivienda, en adelante) ha determinado que la siguiente acción propuesta bajo el Programa Renacer Agrícola de Puerto Rico - Agricultura Urbana y Rural/Suavención en Bloque para el Desarrollo Comunitario - Recuperación ante Desastres (CDBG-DR), números de subvención B-17DM-72-0001 y B-18-DR-72-0001, se encuentra en un humedal. Vivienda está evaluando e identificando alternativas prácticas para realizar la acción propuesta y el impacto potencial en el humedal debido a la acción propuesta, según establecido por la Orden Ejecutiva 11990, de acuerdo con las regulaciones de HUD, en 24 CFR 55.20 Subpart C - Procedimientos para tomar determinaciones sobre el manejo de llanuras aluviales y la protección de humedales. El proyecto propuesto, PR-RGRW-03971, se encuentra dentro de un municipio que sufrió daños debido a los huracanes Irma y María, y está localizado en la carretera PR-811 km 0.6 Int, barrio Cedro Abajo, sector Sabana, Naranjito, PR 00719, coordenadas 18.279625, -66.281036.

El proyecto propuesto incluye la construcción e instalación de tres invernaderos. El invernadero #1 es de aproximadamente 4,425 pies cuadrados, el invernadero #2 es de aproximadamente 7,242 pies cuadrados y el invernadero #3 es de aproximadamente 7,250 pies cuadrados. Los invernaderos se construirán utilizando postes de madera con techos de Sarán, sujetos con alambre de acero y apretados con tornillos. Los tres invernaderos se utilizarán para cultivar y cosechar cilantro, lo que ayudará a aumentar la producción agrícola en la granja y respaldará la producción agrícola local continua. El río Mayilla, un humedal ribereño, cruza el área del invernadero #1 y del invernadero #2 en la parte suroeste de la parcela. Según el Inventario Nacional de Humedales y los Conjuntos de Costos de Hidrografía Nacional, aproximadamente 0.011 acres del área del invernadero #1 y 0.019 acres del área del invernadero #2 se encuentran dentro del área cartografiada de este humedal. El proyecto potencialmente impactará un total de 0.030 acres de humedales ribereños. El área de humedal se encuentra en la página del National Wetlands Inventory en <https://wspprimary.wim.usgs.gov/Wetlands/apps/wetlands-mapapp/>.

Este aviso tiene tres propósitos principales. En primer lugar, las personas que puedan verse afectadas por las actividades en humedales y aquellos que tengan interés en la protección del ambiente natural deben tener la oportunidad de expresar sus inquietudes y proveer información sobre estas áreas. Se exhorta a la comunidad a ofrecer ubicaciones alternativas fuera de humedales, métodos alternos para cumplir el mismo propósito del proyecto y métodos para minimizar y mitigar los impactos. Segundo, un programa adecuado de avisos públicos puede ser una herramienta importante para la educación pública. La divulgación de información de humedales puede facilitar y mejorar los esfuerzos federales por reducir los riesgos e impactos asociados con la ocupación y alteración de estas zonas especiales. Tercero, como materia de justicia, cuando el gobierno federal determine participar en acciones ubicadas en humedales, debe informarse a quienes puedan ser expuestos a un riesgo mayor o similar al presente.

Vivienda considerará todos los comentarios recibidos en o antes de 21 de noviembre de 2023. Pueden enviar los comentarios de forma impresa a la siguiente dirección: Departamento de la Vivienda de Puerto Rico, edificio Juan C. Cordero Davila, 606 avenida Barbosa, Río Piedras, PR 00918-8461. Atención: Limary Velaz-Marrero, Especialista en Permisos y Cumplimiento Ambiental. Una descripción completa del proyecto está disponible al público por revisión de 8:30 a. m. a 4:00 p. m. en el Departamento de la Vivienda de Puerto Rico, edificio Juan C. Cordero Davila, 606 avenida Barbosa, Río Piedras, PR 00918. El número para obtener información es (787) 274-2527, ext. 4320. Como alternativa, también pueden enviar los comentarios a Vivienda por medio electrónico a [environmental@vivienda.pr.gov](mailto:environmental@vivienda.pr.gov).

Fecha: 6 de noviembre de 2023

Ldo. William O. Rodríguez Rodríguez  
Secretario del Departamento de la Vivienda

**VIVIENDA**

**public notice**

Early Notice and Public Review of a Proposed Activity in a Wetland

Alberto Luis Rivera Rivera  
PR-RGRW-03971

For All Interested Parties, Groups and Individuals

This is to give notice that the Puerto Rico Department of Housing (PRDOH) has determined that the following proposed action under the Community Development Block Grant - Disaster Recovery (CDBG-DR), Re-Crow Puerto Rico Urban-Rural Agriculture Program, grant numbers B-17-DM-72-0001 and B-18-DR-72-0001, is located in a wetland. PRDOH will be identifying and evaluating practicable alternatives to locate the action in the wetland and the potential impacts on the wetland from the proposed action, as required by Executive Order 11990, in accordance with HUD regulations at 24 CFR 55.20 Subpart C - Procedures for Making Determinations on Floodplain Management and Protection of Wetlands. The proposed project, PR-RGRW-03971, is within a municipality with structures damaged by hurricanes Irma and Maria, and it is located on Road PR-811, km 0.6 Interoad, Cedro Ward, Sabana Sector, Naranjito, PR 00719, coordinates 18.279625, -66.281036.

The proposed project includes the construction and installation of three new greenhouses. Greenhouse #1 is approximately 4,425 square feet, greenhouse #2 is approximately 7,242 square feet, and greenhouse #3 is approximately 7,250 square feet. Each greenhouse will be constructed using hardwood posts with Saran mesh roofs fastened with steel wire and tightened using tensioners. All three greenhouses will be used for growing and harvesting cilantro, helping increase agricultural production on the farm and support continued local agricultural production. The Mayilla River, a riverine wetland, crosses the site of greenhouse #1 and greenhouse #2 in the southeastern part of the parcel. Based on the National Wetlands Inventory and National Hydrography Dataset, approximately 0.011 acres of the greenhouse #1 site and 0.019 acres of the greenhouse #2 site are within the mapped area of this wetland. The project would potentially impact a total of 0.030 acres of riverine wetlands. The wetland in the project area may be found in the National Wetlands Inventory at <https://wspprimary.wim.usgs.gov/Wetlands/apps/wetlands-mapapp/>.

There are three primary purposes for this notice. First, people who may be affected by activities in wetlands and those who have an interest in the protection of the natural environment should be given an opportunity to express their concerns and provide information about these areas. Comments are encouraged to offer alternative sites outside of the wetland, alternative methods to serve the same project purpose, and methods to minimize and mitigate impacts. Second, an adequate public notice program can be an important public educational tool. The dissemination of information and request for public comment about wetlands can facilitate and enhance federal efforts to reduce the risks and impacts associated with the occupancy and modification of these special areas. Third, as a matter of fairness, when the federal government determines it will participate in actions taking place in wetlands, it must inform those who may be at greater or continued risk.

PRDOH will consider all comments received on or before November 21, 2023. Written comments shall be sent to the following address: Puerto Rico Department of Housing, 606 Barbosa Avenue, Juan C. Cordero Davila Building, Río Piedras, PR 00918-8461, Attention: Limary Velaz-Marrero, Permits and Environmental Compliance Specialist. A complete description of the project is available to the public for review from 8:30 a. m. to 4:00 p. m. at the Puerto Rico Department of Housing, 606 Barbosa Avenue, Juan C. Cordero Davila Building, Río Piedras, PR 00918. The number to get information is (787) 274-2527, ext. 4320. In the alternative, comments may also be sent to PRDOH by email to [environmental@vivienda.pr.gov](mailto:environmental@vivienda.pr.gov).

Date: November 6, 2023

William O. Rodríguez Rodríguez, Esq.  
Secretary of the Department of Housing

**HOUSING**



## Validation Letter

June 11, 2024

To whom it may concern,

This letter is to validate that no comments were received in the Permits and Environmental Compliance Division e-mail: [environmentcdbg@vivienda.pr.gov](mailto:environmentcdbg@vivienda.pr.gov), for the project **Alberto Luis Rivera Rivera (PR-RGRW-03971)**, as part of the CDBG-DR Re-Grow PR Urban-Rural Agriculture Program. The Final Notice and Public Explanation of a Proposed Activity in a Wetland was published in the *Primera Hora* newspaper of Puerto Rico on June 3, 2024, with a comment period that concluded on June 10, 2024.

Cordially,

Permits and Environmental Compliance Division  
Disaster Recovery Office  
[environmentcdbg@vivienda.pr.gov](mailto:environmentcdbg@vivienda.pr.gov) | 787.274.2527 ext. 4320

# avisos y subastas



**PRYMED MEDICAL CARE, INC.**

## INVITATION FOR BID

PRYMED MEDICAL CARE, INC., is requesting sealed bids invitation for:

- NEW PHARMACY BUILDING whose scope of work includes approximately 7,300 Sq. ft of a new two-level construction facilities, which includes, 1<sup>st</sup> floor pharmacy, 2<sup>do</sup> floor of administrative PryMed offices, and other exterior improvements for the mention area, as part of PryMed Medical Care, Ciales facilities.
- The project consists of the following specific works: selective site demolition, site / civil minor improvements, architectural (interiors, facade, etc.), structural (steel, blocks, etc.), mechanical (A/C, fire alarm system, etc.), electrical (lighting, etc.), elevator and other details.

### PRE-BID CONFERENCE / MEETING:

**Friday, June 7, 2024, at 10:30 a.m. at PRYMED MEDICAL CARE facility, Ciales with a site visit following the Pre-Bid Conference.**

It is mandatory for all contractors to attend the Pre-Bid Conference including the site inspection. Although subcontractors' attendance is not compulsory, contractors will be required to verify that they are aware of the existing conditions.

Bids will be received at the ADMINISTRATION OFFICE, State Road #149, Km. 13.0, Ciales, Puerto Rico, until 11:00 a.m. on Friday, June 28, 2024. All bids will be publicly opened and read aloud.

A bid package, plan holders list, and other contract documents relating to the project may be obtained (via Dropbox) on Wednesday, June 5, 2024, from 2:00 p.m. at

**EBP Design Group Consulting Engineers, PSC  
207 A&M Tower  
Del Parque Street, 4th Floor  
San Juan, P.R.  
(787) 268-0550**

Contractors shall notify Prymed via email: [prymed@prymed.org](mailto:prymed@prymed.org) or by phone call (787) 871-0601, in or before twenty-four (24) hours in advance of their intention to draw the bid package.

This agency is an Equal Opportunity Employment employer.

## aviso público

Aviso Final y Explicación Pública de una Actividad Propuesta en un Humedal

Aberto Luis Rivera Rivera  
PR-RGRW-03971

Para: Todas las partes interesadas, grupos e individuos

Este aviso notifica que el Departamento de la Vivienda de Puerto Rico (PRDOH) ha concluido una evaluación según establece la Orden Ejecutiva 1990, de acuerdo con los reglamentos de HUD en 24 CFR 55.20 Subparte C - Procedimientos para hacer determinaciones sobre el manejo del humedal y la protección de humedales. La actividad está subvencionada con fondos del Programa de Rescate Agrícola de PR - Agricultura Urbana y Rural Subvención en Brique para el Desarrollo Comunitario - Recuperación ante Desastres (CDBG-DR) Grant numbers B-47-DM-72-0001 y B-48-OP-72-0001. El proyecto propuesto, PR-RGRW-03971, está ubicado en la carretera PR-81 Km 06 Int., banco Cerro Abajo, sector Sabana, Naranjo, PR 00718, coordenadas 18.279655, -96.280336. El proyecto consiste en la construcción e instalación de tres nuevos invernaderos: el invernadero #1 tiene aproximadamente 4425 pies cuadrados, el invernadero #2 tiene aproximadamente 7242 pies cuadrados y el invernadero #3 tiene aproximadamente 7250 pies cuadrados. Cada invernadero se construirá con postes de madera, con techos de Sardin, y se utilizará para cultivar y cosechar cítricos. Río Maella, un humedal ribereño, cruza los sitios de invernaderos #1 y el invernadero #2 en la parte sureste de la parcela, con un impacto potencial total de 0030 acres del humedal ribereño. Las funciones de los humedales incluyen la mejora de la calidad del agua mediante filtración, almacenamiento de agua de inundación, hábitat de peces y vida acuática, estética, y productividad biológica. El humedal en el área del proyecto se puede encontrar en el Inventario Nacional de Humedales en <https://esprymedprymed.usgs.gov/wetlands/apps/wetlands-mapped/>.

Vivienda ha considerado las siguientes alternativas y medidas de mitigación para minimizar los impactos adversos y restaurar y preservar los valores naturales y beneficiosos: (1) ubicar las acciones fuera del humedal; (2) reducir el alcance de trabajo del proyecto; y (3) no tomar ninguna acción. Bajo la alternativa 1, las ubicaciones de las parcelas para los invernaderos en la propiedad no están cerca de un humedal. Bajo las parcelas norte y noroeste de la propiedad, reducen la amenaza del potencial impacto del humedal sin embargo, según la respectiva interpretación fotográfica de imágenes ortofotográficas, Río Maella está al suroeste del humedal del proyecto, y si bien está adyacente al área del proyecto, no se anticipa un impacto directo. Ninguno de los invernaderos está ubicado dentro del Río Maella. Además, las áreas de las parcelas están cubiertas de una densa vegetación y requieren trabajo de árboles para construir los invernaderos. Las ubicaciones óptimas para construir los invernaderos son las áreas abiertas en la parte central y oeste de la parcela, ya que estas áreas solo requieren una mínima alteración del suelo. Las alternativas 2 y 3 no son factibles. Reducir el alcance y no construir los invernaderos #1 y #2, y en su lugar construir solo el invernadero #3, ubicado en la parte central de la propiedad. Esto eliminara el potencial de impacto del humedal, sin embargo, el solicitante solo construya el invernadero #3, no podrá mejorar su producción agrícola, como podría hacerlo con múltiples invernaderos. Los negocios y la producción agrícola en Puerto Rico se venían afectando. De no tomar ninguna acción, el solicitante no recibiría fondos federales para construir tres nuevos invernaderos. En consecuencia, es posible que el solicitante no pueda recuperar y continuar la producción agrícola. Dado el grado de necesidad de una mayor capacidad agrícola en Puerto Rico después de los huracanes Irma y María, los costos de renunciar al proyecto excederían los beneficios. No se anticipan impactos directos en el humedal ribereño identificado y se espera que los impactos indirectos sean mínimos como resultado de esta acción con la implementación de mejores prácticas de manejo durante las actividades de diseño y construcción. El uso propuesto está en armonía con el área designada circundante.

Vivienda reveló las alternativas para construir en el humedal y determinó que no cuenta con alternativas prácticas. La documentación ambiental que evidencia el cumplimiento de los pasos 3 a 6 de la Orden Ejecutiva 1990, está disponible para inspección, revisión y reproducción de parte del público, de ser solicitado, en el horario y lugar indicado en el último párrafo para recibir comentarios sobre este aviso.

Este aviso tiene tres propósitos principales. Primero, las personas que pueden verse afectadas por actividades en el humedal y aquellos quienes tengan interés en la protección del ambiente natural deben recibir la oportunidad de expresar sus inquietudes y proveer información sobre estas áreas. Segundo, un programa adecuado de avisos públicos puede ser un herramienta importante de educación pública. La divulgación de información y solicitud de comentarios sobre humedales puede facilitar y mejorar los esfuerzos federales para reducir los riesgos e impactos asociados con la ocupación y alteración de estas áreas especiales. Tercero, como modo de justicia, cuando el gobierno federal determine participar en acciones ubicadas en el humedal, debe informarse a quienes puedan ser expuestos a un riesgo mayor o similar al presente.

Vivienda considerará todos los comentarios recibidos en o antes del 10 de junio de 2024. Pueden enviar los comentarios de forma impresa a la siguiente dirección: Departamento de la Vivienda de Puerto Rico, edificio Juan C. Cordero Dávila, 606 avenida Barbosa, Río Piedras, PR 00918-8461. Atención: Limay Wilka-Marrero, Especialista en Permisos y Cumplimiento Ambiental. Una descripción completa del proyecto está disponible al público para revisión de 8:30 am a 4:00 p.m. en el Departamento de la Vivienda de Puerto Rico, edificio Juan C. Cordero Dávila, 606 avenida Barbosa, Río Piedras, PR 00918. El número para obtener información es (787) 274-4327 ext. 4330. Como alternativa, también pueden enviar los comentarios a Vivienda por medio electrónico a [environment2@prymed.usgs.gov](mailto:environment2@prymed.usgs.gov).

Fecha: 3 de junio de 2024

Lito, William O. Rodríguez Rodríguez  
Secretario del Departamento de la Vivienda

Autorizado por la Oficina del Contralor  
Electoral OCE-6A-2023-00076

## public notice

Final Notice and Public Explanation of a Proposed Activity in a Wetland

Aberto Luis Rivera Rivera  
PR-RGRW-03971

To: All Interested Parties, Groups & Individuals

This is to give notice that the Puerto Rico Department of Housing (PRDOH) has conducted an evaluation as required by the Executive Order 1990, in accordance with HUD regulations at 24 CFR 55.20 Subpart C - Procedures for Making Determinations on Floodplain Management and Wetlands Protection. The activity is funded under the Re-Crow PR Urban-Rural Agriculture Program, Community Development Block Grant - Disaster Recovery (CDBG-DR) Grant numbers B-47-DM-72-0001 and B-48-OP-72-0001. The proposed project, PR-RGRW-03971, is located at PR-81 Road Km 06 Int., Cerro Abajo Ward, Sabana Sector, Naranjo, PR 00718, coordinates 18.279655, -96.280336. The project consists in the construction and installation of three new greenhouses. Greenhouse #1 is approximately 4425 square feet, greenhouse #2 is approximately 7242 square feet and greenhouse #3 is approximately 7250 square feet. Each greenhouse will be constructed using hardwood posts with the Sardin roofs and will be used for growing and harvesting citrus. Río Maella, a riverine wetland, crosses the sites for greenhouse #1 and greenhouse #2 in the southeastern part of the parcel, with a total potential impact of 0030 acres of the riverine wetland. Wetland functions include water quality improvement, through filtration, floodwater storage, fish and wildlife habitat, aesthetics, and biological productivity. The wetland in the project area can be found in the National Wetlands Inventory at <https://esprymedprymed.usgs.gov/wetlands/apps/wetlands-mapped/>.

PRDOH has considered the following alternatives and mitigation measures to be taken to minimize adverse impacts and to restore and preserve natural and beneficial values: (1) locating the actions outside of the wetland; (2) reducing the project's scope of work; and (3) take no action. Under alternative 1, alternate locations for the greenhouses on the property that are not in proximity to a wetland include the north and northwest portions of the property. Relocating would eliminate the potential for impacts to the wetland; however, as supported by photo interpretation of ortho imagery, Río Maella is southeast of the project footprint and, while it is adjacent to the project area, direct impact is not anticipated. None of the greenhouses will be located within Río Maella. Additionally, these alternative areas are covered in dense vegetation and would require tree clearing to construct the greenhouses. The optimal locations for constructing the three greenhouses are the open areas in the central and southern portions of the parcel, since these areas will only require minimal ground disturbance. Alternatives 2 and 3 are not feasible. Reducing the scope and not constructing greenhouses #1 and #2, and instead only constructing greenhouse #3, which is located in the central portion of the property. This would eliminate the potential for impacts to the wetland; however, if the applicant only constructs greenhouse #3, he could not improve his agricultural production as well as he could with multiple greenhouses. The business and agricultural production on Puerto Rico would suffer. If no action is taken, the applicant would not receive federal funding to construct three new greenhouses. Consequently, the applicant may not be able to recover and continue agricultural production. Given the degree of need for greater agricultural capacity in Puerto Rico following Hurricanes Irma and María, the costs of foregoing the project would exceed the benefits. There will be no direct impacts to the identified riverine wetland and indirect impacts are expected to be minimal as a result of this action with the implementation of best management practices (BMP) during the design and construction activities. The proposed use is in harmony with the surrounding developed area.

PRDOH has reevaluated the alternatives to building in the wetland and has determined that no practicable alternative is necessary, since the project is not actually within a wetland. Environmental files that document compliance with steps 3 through 6 of Executive Order 1990 are available for public inspection, review and copying upon request at the times and location identified in the last paragraph of this notice for receipt of comments.

There are three primary purposes for this notice. First, people who may be affected by activities in the wetland and those who have an interest in the protection of the natural environment should be given an opportunity to express their concerns and provide information about these areas. Second, an adequate public notice program can be an important public education tool. The dissemination of information and request for public comment about wetlands can facilitate and enhance Federal efforts to reduce the risks and impacts associated with the occupancy and modification of these special areas. Third, as a matter of fairness, when the Federal government determines it will participate in actions taking place in the wetland, it must inform those who may be put at greater or continued risk.

PRDOH will consider all comments received on or before June 10, 2024. Written comments can be sent to the following address: Puerto Rico Department of Housing, 606 Barbosa Avenue, Juan C. Cordero Dávila Building, Río Piedras, PR 00918-8461. Attention: Limay Wilka-Marrero, Permits and Environmental Compliance Specialist. A complete description of the project is available to the public for review from 8:30 am to 4:00 pm at the Puerto Rico Department of Housing, 606 Barbosa Avenue, Juan C. Cordero Dávila Building, Río Piedras, PR 00918. The number to get information is (787) 274-4327 ext. 4330. In the alternative, comments may also be sent to PRDOH by email at [environment2@prymed.usgs.gov](mailto:environment2@prymed.usgs.gov).

Date: June 3, 2024

William O. Rodríguez Rodríguez, Esq.  
Secretary of the Department of Housing

Autorizado by the Office of the Elector  
Comptroller OCE-6A-2023-00076

## **Attachment 14**

# **Wild and Scenic Rivers Partner Worksheet and Wild and Scenic Rivers Map**

## Wild and Scenic Rivers (CEST and EA) – PARTNER

This Worksheet was designed to be used by those “Partners” (including Public Housing Authorities, consultants, contractors, and nonprofits) who assist Responsible Entities and HUD in preparing environmental reviews, but legally cannot take full responsibilities for these reviews themselves. Responsible Entities and HUD should use the RE/HUD version of the Worksheet.

General requirements	Legislation	Regulation
The Wild and Scenic Rivers Act provides federal protection for certain free-flowing, wild, scenic and recreational rivers designated as components or potential components of the National Wild and Scenic Rivers System (NWSRS) from the effects of construction or development.	The Wild and Scenic Rivers Act (16 U.S.C. 1271-1287), particularly section 7(b) and (c) (16 U.S.C. 1278(b) and (c))	36 CFR Part 297
References		
<a href="https://www.hudexchange.info/environmental-review/wild-and-scenic-rivers">https://www.hudexchange.info/environmental-review/wild-and-scenic-rivers</a>		

### 1. Is your project within proximity of a NWSRS river as defined below?

**Wild & Scenic Rivers:** These rivers or river segments have been designated by Congress or by states (with the concurrence of the Secretary of the Interior) as wild, scenic, or recreational

Study Rivers: These rivers or river segments are being studied as a potential component of the Wild & Scenic River system.

Nationwide Rivers Inventory (NRI): The National Park Service has compiled and maintains the NRI, a register of river segments that potentially qualify as national wild, scenic, or recreational river areas

No

→ If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Provide documentation used to make your determination, such as a map identifying the project site and its surrounding area or a list of rivers in your region in the Screen Summary at the conclusion of this screen.

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

→ Continue to Question 2.

**2. Could the project do *any* of the following?**

- Have a direct and adverse effect within Wild and Scenic River Boundaries,
- Invade the area or unreasonably diminish the river outside Wild and Scenic River Boundaries, or
- Have an adverse effect on the natural, cultural, and/or recreational values of a NRI segment.

Consultation with the appropriate federal/state/local/tribal Managing Agency(s) is required, pursuant to Section 7 of the Act, to determine if the proposed project may have an adverse effect on a Wild & Scenic River or a Study River and, if so, to determine the appropriate avoidance or mitigation measures.

Note: Concurrence may be assumed if the Managing Agency does not respond within 30 days; however, you are still obligated to avoid or mitigate adverse effects on the rivers identified in the NWSRS

- No, the Managing Agency has concurred that the proposed project will not alter, directly, or indirectly, any of the characteristics that qualifies or potentially qualifies the river for inclusion in the NWSRS.

→ *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Provide documentation of the consultation (including the Managing Agency's concurrence) and any other documentation used to make your determination.*

- Yes, the Managing Agency was consulted and the proposed project may alter, directly, or indirectly, any of the characteristics that qualifies or potentially qualifies the river for inclusion in the NWSRS.

→ *The RE/HUD must work with the Managing Agency to identify mitigation measures to mitigate the impact or effect of the project on the river.*

## **Worksheet Summary**

### **Compliance Determination**

Provide a clear description of your determination and a synopsis of the information that it was based on, such as:

- Map panel numbers and dates
- Names of all consulted parties and relevant consultation dates
- Names of plans or reports and relevant page numbers
- Any additional requirements specific to your region

A review of the USFWS National Wild and Scenic River mapper identified no Wild and Scenic Rivers or National Rivers Inventory (NRI) rivers present in Naranjito Municipio. The closest Wild and Scenic River segment is located 170,354 feet (32 miles) from the project site. No further evaluation is required. The project is in compliance with the Wild and Scenic Rivers Act.

**Are formal compliance steps or mitigation required?**

Yes

No



REGROW PROGRAM

**Figure B 14-1:  
National Wild and  
Scenic River Map**

Applicant ID: PR-RGRW-03971



- Site
- National Wild and Scenic River

Carr 811 Km 0.6 Int. Bo. Cerdo  
Abajo, Sector Sabana  
Naranjito, Puerto Rico 00719

Parcel ID: 168-095-160-33-000  
18.279655, -66.281036

Data Source: [https://apps.fs.usda.gov/arcx/rest/services/EDW/EDW\\_WildScenicRiverSegments\\_01/MapServer](https://apps.fs.usda.gov/arcx/rest/services/EDW/EDW_WildScenicRiverSegments_01/MapServer)

Base Map: ESRI ArcGIS Online,  
accessed June 2023  
Updated: 6/27/2023  
Layout: Wild and Scenic Rivers

1:345,000

Puerto Rico

0 10,000 20,000 Feet  
0 4,000 8,000 Meters

**Attachment 15**  
**Environmental Justice Partner Worksheet**  
**and EJScreen Report**



U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT  
WASHINGTON, DC 20410-1000

This Worksheet was designed to be used by those “Partners” (including Public Housing Authorities, consultants, contractors, and nonprofits) who assist Responsible Entities and HUD in preparing environmental reviews, but legally cannot take full responsibilities for these reviews themselves. Responsible Entities and HUD should use the RE/HUD version of the Worksheet.

## Environmental Justice (CEST and EA) – PARTNER

<https://www.hudexchange.info/environmental-review/environmental-justice>

**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 → *Continue to Question 2.*

No → *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below.*

**2. Were these adverse environmental impacts disproportionately high for low-income and/or minority communities?**

Yes

**Explain:**

Click here to enter text.

→ *The RE/HUD must work with the affected low-income or minority community to decide what mitigation actions, if any, will be taken. Provide any supporting documentation.*

No

**Explain:**

Click here to enter text.

→ *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below.*

### **Worksheet Summary**

Provide a full description of your determination and a synopsis of the information that it was based on, such as:

- Map panel numbers and dates
- Names of all consulted parties and relevant consultation dates
- Names of plans or reports and relevant page numbers
- Any additional requirements specific to your program or region

**Include all documentation supporting your findings in your submission to HUD.**

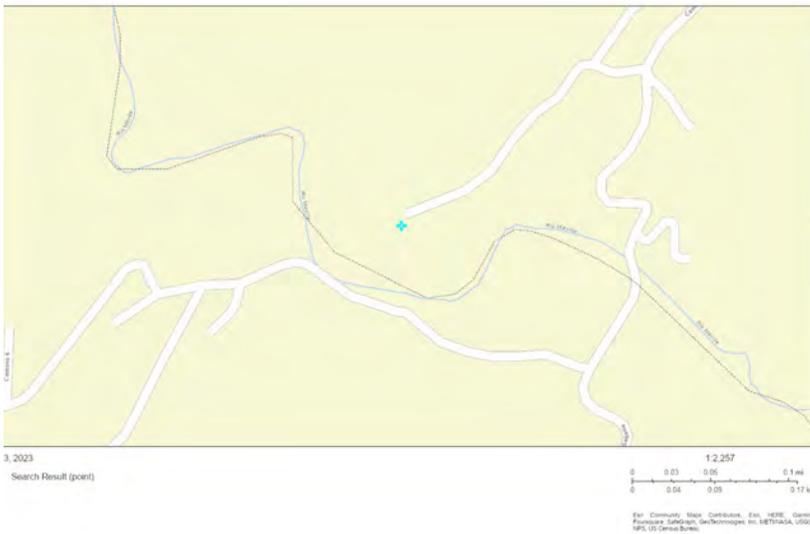
The ReGrow Program intends to alleviate negative economic impacts to, and strengthen, the agricultural industry in Puerto Rico. The project's direct and indirect impacts are limited to a small area on a single land parcel. The project will benefit the farm owner by improving agricultural use and production. The project would not facilitate development that would negatively affect human health or result in disproportionate adverse environmental impacts to low-income or minority populations. The project is in compliance with Executive Order 12898.

# EJScreen Community Report

This report provides environmental and socioeconomic information for user-defined areas, and combines that data into environmental justice and supplemental indexes.

## Naranjito Municipio, PR

1 mile Ring Centered at 18.279654,-66.281038  
 Population: 2,490  
 Area in square miles: 3.14



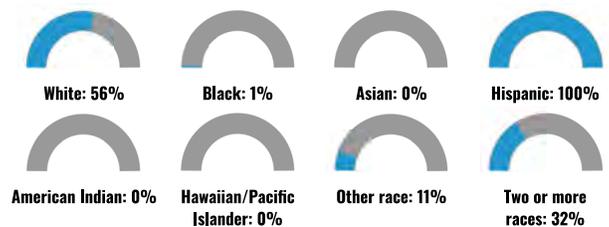
### COMMUNITY INFORMATION



### LANGUAGES SPOKEN AT HOME

LANGUAGE	PERCENT
English	7%
Spanish	93%
Total Non-English	93%

### BREAKDOWN BY RACE



### BREAKDOWN BY AGE



### LIMITED ENGLISH SPEAKING BREAKDOWN



Notes: Numbers may not sum to totals due to rounding. Hispanic population can be of any race. Source: U.S. Census Bureau, American Community Survey (ACS) 2017-2021. Life expectancy data comes from the Centers for Disease Control.

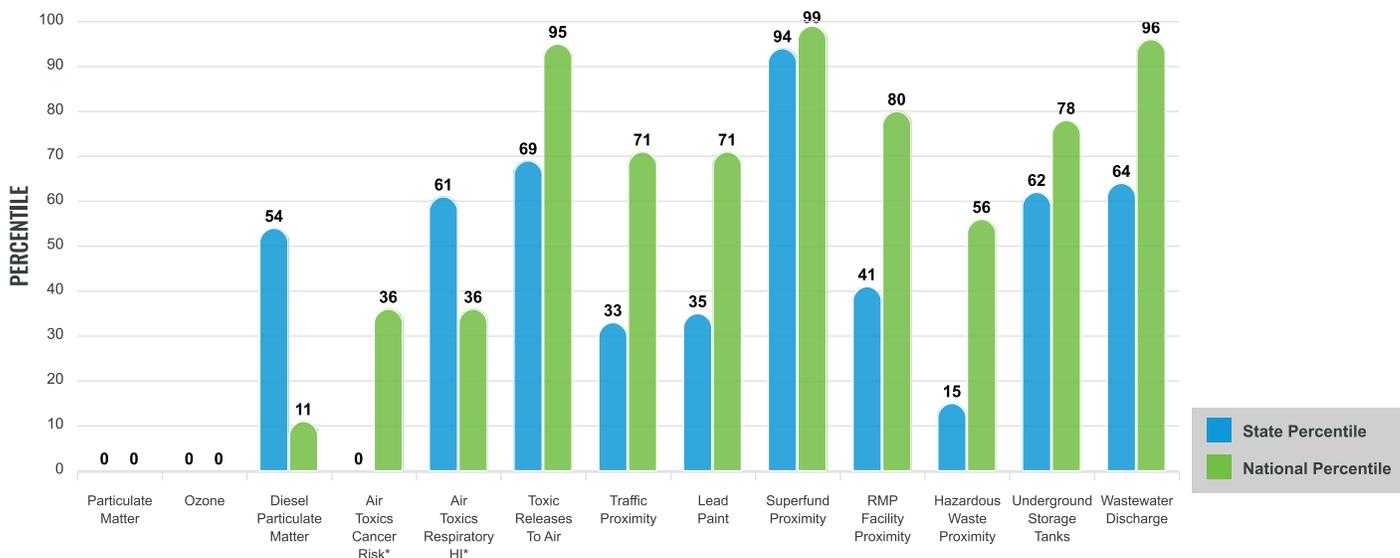
# Environmental Justice & Supplemental Indexes

The environmental justice and supplemental indexes are a combination of environmental and socioeconomic information. There are thirteen EJ indexes and supplemental indexes in EJScreen reflecting the 13 environmental indicators. The indexes for a selected area are compared to those for all other locations in the state or nation. For more information and calculation details on the EJ and supplemental indexes, please visit the [EJScreen website](#).

## EJ INDEXES

The EJ indexes help users screen for potential EJ concerns. To do this, the EJ index combines data on low income and people of color populations with a single environmental indicator.

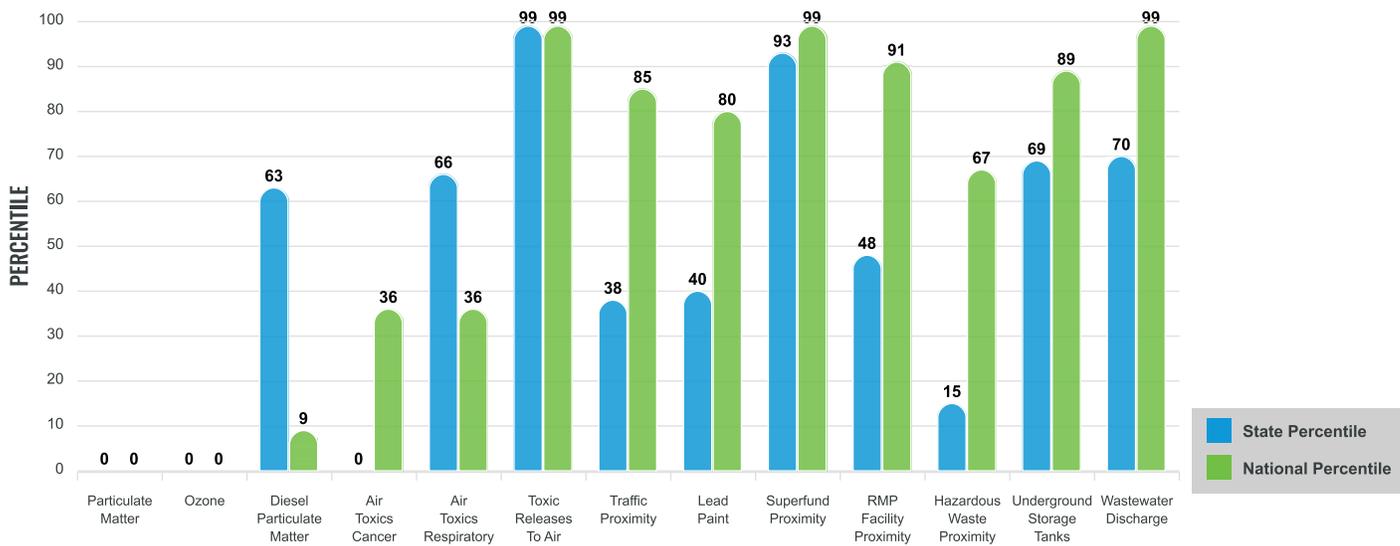
### EJ INDEXES FOR THE SELECTED LOCATION



## SUPPLEMENTAL INDEXES

The supplemental indexes offer a different perspective on community-level vulnerability. They combine data on percent low-income, percent linguistically isolated, percent less than high school education, percent unemployed, and low life expectancy with a single environmental indicator.

### SUPPLEMENTAL INDEXES FOR THE SELECTED LOCATION



These percentiles provide perspective on how the selected block group or buffer area compares to the entire state or nation.

Report for 1 mile Ring Centered at 18.279654,-66.281038

# EJScreen Environmental and Socioeconomic Indicators Data

SELECTED VARIABLES	VALUE	STATE AVERAGE	PERCENTILE IN STATE	USA AVERAGE	PERCENTILE IN USA
<b>POLLUTION AND SOURCES</b>					
Particulate Matter ( $\mu\text{g}/\text{m}^3$ )	N/A	N/A	N/A	8.08	N/A
Ozone (ppb)	N/A	N/A	N/A	61.6	N/A
Diesel Particulate Matter ( $\mu\text{g}/\text{m}^3$ )	0.0386	0.0667	49	0.261	2
Air Toxics Cancer Risk* (lifetime risk per million)	20	23	0	28	3
Air Toxics Respiratory HI*	0.2	0.19	17	0.31	4
Toxic Releases to Air	1,500	4,300	71	4,600	67
Traffic Proximity (daily traffic count/distance to road)	31	180	31	210	30
Lead Paint (% Pre-1960 Housing)	0.055	0.16	36	0.3	27
Superfund Proximity (site count/km distance)	0.73	0.15	97	0.13	96
RMP Facility Proximity (facility count/km distance)	0.13	0.47	37	0.43	39
Hazardous Waste Proximity (facility count/km distance)	0.086	0.76	13	1.9	17
Underground Storage Tanks (count/km <sup>2</sup> )	0.55	1.7	63	3.9	40
Wastewater Discharge (toxicity-weighted concentration/m distance)	0.015	2.3	61	22	71
<b>SOCIOECONOMIC INDICATORS</b>					
Demographic Index	88%	83%	52	35%	98
Supplemental Demographic Index	48%	43%	60	14%	99
People of Color	100%	96%	31	39%	98
Low Income	76%	70%	50	31%	96
Unemployment Rate	17%	15%	64	6%	93
Limited English Speaking Households	83%	67%	81	5%	99
Less Than High School Education	18%	21%	45	12%	78
Under Age 5	0%	4%	0	6%	0
Over Age 64	15%	22%	23	17%	48
Low Life Expectancy	N/A	N/A%	N/A	20%	N/A

\*Diesel particulate matter, air toxics cancer risk, and air toxics respiratory hazard index are from the EPA's Air Toxics Data Update, which is the Agency's ongoing, comprehensive evaluation of air toxics in the United States. This effort aims to prioritize air toxics, emission sources, and locations of interest for further study. It is important to remember that the air toxics data presented here provide broad estimates of health risks over geographic areas of the country, not definitive risks to specific individuals or locations. Cancer risks and hazard indices from the Air Toxics Data Update are reported to one significant figure and any additional significant figures here are due to rounding. More information on the Air Toxics Data Update can be found at: <https://www.epa.gov/haps/air-toxics-data-update>.

## Sites reporting to EPA within defined area:

Superfund .....	0
Hazardous Waste, Treatment, Storage, and Disposal Facilities .....	0
Water Dischargers .....	0
Air Pollution .....	0
Brownfields .....	0
Toxic Release Inventory .....	0

## Other community features within defined area:

Schools .....	0
Hospitals .....	0
Places of Worship .....	0

## Other environmental data:

Air Non-attainment .....	No
Impaired Waters .....	Yes

Selected location contains American Indian Reservation Lands\* ..... No  
 Selected location contains a "Justice40 (CEJST)" disadvantaged community ..... Yes  
 Selected location contains an EPA IRA disadvantaged community ..... N/A

Report for 1 mile Ring Centered at 18.279654,-66.281038

# EJScreen Environmental and Socioeconomic Indicators Data

## HEALTH INDICATORS

INDICATOR	HEALTH VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Low Life Expectancy	N/A	-99999900%	N/A	20%	N/A
Heart Disease	N/A	-999999	N/A	6.1	N/A
Asthma	N/A	-999999	N/A	10	N/A
Cancer	N/A	-999999	N/A	6.1	N/A
Persons with Disabilities	28.5%	21.6%	82	13.4%	97

## CLIMATE INDICATORS

INDICATOR	HEALTH VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Flood Risk	N/A	-99999900%	N/A	12%	N/A
Wildfire Risk	N/A	-99999900%	N/A	14%	N/A

## CRITICAL SERVICE GAPS

INDICATOR	HEALTH VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Broadband Internet	48%	32%	79	14%	97
Lack of Health Insurance	8%	7%	65	9%	55
Housing Burden	No	N/A	N/A	N/A	N/A
Transportation Access	No	N/A	N/A	N/A	N/A
Food Desert	No	N/A	N/A	N/A	N/A

Footnotes

Report for 1 mile Ring Centered at 18.279654,-66.281038

**Attachment 15**  
**Sole Source Aquifer Partner Worksheet**  
**and Map**



**U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT**  
WASHINGTON, DC 20410-1000

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## **Sole Source Aquifers (CEST and EA) - PARTNER**

<https://www.hudexchange.info/environmental-review/sole-source-aquifers>

### **1. Is the project located on a sole source aquifer (SSA)<sup>1</sup>?**

No → *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide documentation used to make your determination, such as a map of your project or jurisdiction in relation to the nearest SSA.*

Yes → *Continue to Question 2.*

### **2. Does the project consist solely of acquisition, leasing, or rehabilitation of an existing building(s)?**

Yes → *The review is in compliance with this section. Continue to the Worksheet Summary below.*

No → *Continue to Question 3.*

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

Contact your Field or Regional Environmental Officer or visit the HUD webpage at the link above to determine if an MOU or agreement exists in your area.

Yes → *Continue to Question 4.*

No → *Continue to Question 5.*

### **4. Does your MOU or working agreement exclude your project from further review?**

Yes → *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide documentation used to make your determination and document where your project fits within the MOU or agreement.*

No → *Continue to Question 5.*

### **5. Will the proposed project contaminate the aquifer and create a significant hazard to public health?**

Consult with your Regional EPA Office. Your consultation request should include detailed information about your proposed project and its relationship to the aquifer and associated streamflow source area.

---

<sup>1</sup> 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.

EPA will also want to know about water, storm water and waste water at the proposed project. Follow your MOU or working agreement or contact your Regional EPA office for specific information you may need to provide. EPA may request additional information if impacts to the aquifer are questionable after this information is submitted for review.

- No → *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide your correspondence with the EPA and all documents used to make your determination.*
- Yes → *The RE/HUD will work with EPA to develop mitigation measures. If mitigation measures are approved, attach correspondence with EPA and include the mitigation measures in your environmental review documents and project contracts. If EPA determines that the project continues to pose a significant risk to the aquifer, federal financial assistance must be denied. Continue to Question 6.*

### **Worksheet Summary**

Provide a full description of your determination and a synopsis of the information that it was based on, such as:

- Map panel numbers and dates
- Names of all consulted parties and relevant consultation dates
- Names of plans or reports and relevant page numbers
- Any additional requirements specific to your program or region

### **Include all documentation supporting your findings in your submission to HUD.**

According to the USEPA's Source Water Protection, Sole Source Aquifer Protection Program, there are no sole source aquifers in Puerto Rico. No further evaluation is required. The project is in compliance with the Safe Drinking Water Act.

**Appendix C**  
**Environmental Site Inspection Report**



**ENVIRONMENTAL FIELD ASSESSMENT FORM**  
**ReGrow**

Applicant Name: Alberto Luis Rivera Rivera	Program ID: PR-RGRW-03971
Project Coordinates: 18.279655, -66.281036	Parcel ID: 168-095-160-33-000
Parcel Address: Carretera 811 KM 0.6 Int Bo. Cerdo Abajo, Sector Sabana	Municipio: Naranjito
Zip Code: 00719	

Inspector Name: Delise Torres Ortiz	Inspection Date: May 30 <sup>th</sup> , 2023
-------------------------------------	--

**General Site Conditions**

Was property accessible by vehicle?	Yes	Comment:
Access issues?	Yes	Comment: Damaged roads
Are water wells present?	No	Comment:
Are creeks or ponds present?	Yes	Comment: Rio Mavilla
Are any potential wetlands on-site or visible on adjacent parcel?	No	Comment:

**Parcel Conditions**

**Note – for Any Yes answers specify type, contents and location**

Do any of the proposed project work areas show evidence of site preparation?	Yes	Comment: The preparation work was completed between 2018 and 2019 for the irrigation system, roads, and preparing soils.
Are commercial or industrial hazardous facilities at parcel or within visual sight?	No	Comment:
Are there signs of underground storage tanks?	No	Comment:
Are above-ground tanks >10 gallons present? If Yes, also state condition.	Yes	Comment: Water tank



**ENVIRONMENTAL FIELD ASSESSMENT FORM**  
**ReGrow**

Are 55-gallon drums present? If Yes, also state condition.	Yes	Comment: good conditions, not in used.
Are abandoned vehicles or electrical equipment present?	No	Comment:
Is other potential environmentally hazardous debris on the parcel?	No	Comment:
Is there non-environmentally hazardous debris on the parcel?	No	Comment:
Are any leaks, soil stains, or stressed vegetation present associated with any of the above or separately?	No	Comment:
Are there any pungent, foul or noxious odors?	No	Comment:
Are there any potentially hazardous trees that could fall?	No	Comment:
Are any bird nests visible?	No	Comment:
Are there any animal burrows visible?	No	Comment:
Are there any buildings in direct visual sight of the project locations?	Yes	Comment: The applicant's residence was built in the 2010s.



**Additional Needs Analysis**

Based on the above findings, does additional information need to be obtained from the applicant to determine whether an environmental hazard is present?	No	Comment:
--	----	----------

I verify that I have physically visited this property and that the findings outlined above are accurate.

*Delise Torres Ortiz*  
{Delsie Torres-Ortiz}  
{May 30<sup>th</sup>, 2023}



**ENVIRONMENTAL FIELD ASSESSMENT FORM**  
**ReGrow**

Following pages are used for:

Location Map with parcel boundaries and building point (Aerial base with streets labelled)

Photos taken during inspection, with Date / Type / Direction associated with the photo

Project #: PR-RGRW-03971	Photographer: Delise Torres Ortiz
Location Address: Carretera 811 KM 0.6 Int Bo. Cerdo Abajo, Sector Sabana, Naranjito 00719	Coordinates: 18.279655, -66.281036

**\*\*Note:** The dimensions of each greenhouse are as follows:

**Greenhouse #1:**

1. North – 45ft and 11ft (corner closes to greenhouse #2, east)
2. East – 89ft
3. South – 64ft
4. West – 35ft, 11ft, and 40ft

**Greenhouse #2:**

1. North – 56ft and 45ft.
2. East – 49ft and 44ft
3. South – 37ft, 42ft, 30ft, and 52 ft
4. West – 26ft

**Greenhouse #3:**

1. North – 35ft, 33ft, 54ft and 43ft
2. East – 25ft
3. South – 134ft
4. West – 45ft

Project #: PR-RGRW-03971	Photographer: Delise Torres Ortiz
Location Address: Carretera 811 KM 0.6 Int Bo. Cerdo Abajo, Sector Sabana, Naranjito 00719	Coordinates: 18.279655, -66.281036

<b>Photo #:</b> 01	<b>Date:</b> 05/30/ 2023	
<b>Photo Direction:</b> South		
<b>Description:</b> This picture is an overview of the site location for two greenhouses #1 and #2 taken from the main access road showing the area's vegetation.		

<b>Photo #:</b> 02	<b>Date:</b> 05/30/ 2023	
<b>Photo Direction:</b> West		
<b>Description:</b> This picture is an overview of the location of a cistern and electrical post for two greenhouses, #1 and #2, taken from the main access road showing the area's vegetation. This area will also serve as a workspace or laydown space.		

Project #: PR-RGRW-03971	Photographer: Delise Torres Ortiz
Location Address: Carretera 811 KM 0.6 Int Bo. Cerdo Abajo, Sector Sabana, Naranjito 00719	Coordinates: 18.279655, -66.281036

<b>Photo #:</b> 03	<b>Date:</b> 05/30/ 2023
<b>Photo Direction:</b> Northwest	
<b>Description:</b> This picture is an overview of the site location for greenhouse #3 taken from the main access road showing the area's vegetation, the road, and a partial view of the applicant's residence. The applicant will use the terrain as it is to prevent landslides; there is no need for grading the area.	



<b>Photo #:</b> 04	<b>Date:</b> 05/30/ 2023
<b>Photo Direction:</b> Southeast	
<b>Description:</b> This picture is an overview of the site location for two greenhouses, #1 and #2, taken from the main access road showing the area's vegetation. The applicant plans to leave a space of 10 to 12ft in between the two greenhouses.	



Project #: PR-RGRW-03971	Photographer: Delise Torres Ortiz
Location Address: Carretera 811 KM 0.6 Int Bo. Cerdo Abajo, Sector Sabana, Naranjito 00719	Coordinates: 18.279655, -66.281036

<b>Photo #:</b> 05	<b>Date:</b> 05/30/ 2023	
<b>Photo Direction:</b> Southwest		
<b>Description:</b> This picture is an overview of the site location for two greenhouses, specifically this area will have greenhouses #1 and #2, taken from the northeast corner showing the area's vegetation and the applicant's nephew.		

<b>Photo #:</b> 06	<b>Date:</b> 05/30/ 2023	
<b>Photo Direction:</b> Northwest		
<b>Description:</b> This picture is an overview of the site location for two greenhouses, #1 and #2, taken from the southeast corner showing the area's vegetation and the dirt/grass access road.		

Project #: PR-RGRW-03971	Photographer: Delise Torres Ortiz
Location Address: Carretera 811 KM 0.6 Int Bo. Cerdo Abajo, Sector Sabana, Naranjito 00719	Coordinates: 18.279655, -66.281036

<b>Photo #:</b> 07	<b>Date:</b> 05/30/ 2023	-
<b>Photo Direction:</b> North		
<b>Description:</b> This picture is an overview of the site location for two greenhouses #1 and #2, taken from the center showing the area's vegetation, the dirt/grass access road, and two structure with a partial view of the project location.		

<b>Photo #:</b> 08	<b>Date:</b> 05/30/ 2023	
<b>Photo Direction:</b> East		
<b>Description:</b> This picture is an overview of the site location for two greenhouses #1and #2, taken from the center showing the area's vegetation.		

Project #: PR-RGRW-03971	Photographer: Delise Torres Ortiz
Location Address: Carretera 811 KM 0.6 Int Bo. Cerdo Abajo, Sector Sabana, Naranjito 00719	Coordinates: 18.279655, -66.281036

<b>Photo #:</b> 09	<b>Date:</b> 05/30/ 2023	
<b>Photo Direction:</b> South		
<b>Description:</b> This picture is an overview of the site location for two greenhouses #1 and #2, taken from the center showing the area's vegetation towards the Rio Mavilla with an above ground water tank. The 55-gallon drum is empty, face down.		

<b>Photo #:</b> 10	<b>Date:</b> 05/30/ 2023	
<b>Photo Direction:</b> West		
<b>Description:</b> This picture is an overview of the site location for two greenhouses, #1 and #2, taken from the center showing the area's vegetation towards the Rio Mavilla with hardwood posts where the applicant plans to build an area for cleaning the crops (like a shed or warehouse).		

Project #: PR-RGRW-03971	Photographer: Delise Torres Ortiz
Location Address: Carretera 811 KM 0.6 Int Bo. Cerdo Abajo, Sector Sabana, Naranjito 00719	Coordinates: 18.279655, -66.281036

<b>Photo #:</b> 11	<b>Date:</b> 05/30/ 2023	
<b>Photo Direction:</b> North		
<b>Description:</b> This picture is an overview of the site location for greenhouse #3, taken from the center showing the area's vegetation.		

<b>Photo #:</b> 12	<b>Date:</b> 05/30/ 2023	
<b>Photo Direction:</b> East		
<b>Description:</b> This picture is an overview of the site location for greenhouse #3, taken from the center showing the area's vegetation towards the access road for the first location, southeast, and the third location, northwest.		

Project #: PR-RGRW-03971	Photographer: Delise Torres Ortiz
Location Address: Carretera 811 KM 0.6 Int Bo. Cerdo Abajo, Sector Sabana, Naranjito 00719	Coordinates: 18.279655, -66.281036

<b>Photo #:</b> 13	<b>Date:</b> 05/30/ 2023	
<b>Photo Direction:</b> South		
<b>Description:</b> This picture is an overview of the site location for greenhouse #3, taken from the center showing the area's vegetation towards Rio Mavilla (not visible).		

<b>Photo #:</b> 14	<b>Date:</b> 05/30/ 2023	
<b>Photo Direction:</b> West		
<b>Description:</b> This picture is an overview of the site location for greenhouse #3, taken from the center showing the area's vegetation; the 55-gallon drums are empty or are not being used.		

Project #: PR-RGRW-03971	Photographer: Delise Torres Ortiz
Location Address: Carretera 811 KM 0.6 Int Bo. Cerdo Abajo, Sector Sabana, Naranjito 00719	Coordinates: 18.279655, -66.281036

<b>Photo #:</b> 15	<b>Date:</b> 05/30/ 2023	
<b>Photo Direction:</b> North		
<b>Description:</b> This picture is an overview of the location for an electrical post that will provide electricity for greenhouse #3 taken from the center showing the area's vegetation.		

<b>Photo #:</b> 16	<b>Date:</b> 05/30/ 2023	
<b>Photo Direction:</b> East		
<b>Description:</b> This picture is an overview of the location for an electrical post that will provide electricity for greenhouse #3 taken from the center showing the area's vegetation.		

Project #: PR-RGRW-03971	Photographer: Delise Torres Ortiz
Location Address: Carretera 811 KM 0.6 Int Bo. Cerdo Abajo, Sector Sabana, Naranjito 00719	Coordinates: 18.279655, -66.281036

<b>Photo #:</b> 17	<b>Date:</b> 05/30/ 2023	
<b>Photo Direction:</b> South		
<b>Description:</b> This picture is an overview of the location for an electrical post that will provide electricity for greenhouse #3 taken from the center showing the area's vegetation.		

<b>Photo #:</b> 18	<b>Date:</b> 05/30/ 2023	
<b>Photo Direction:</b> West		
<b>Description:</b> This picture is an overview of the location for an electrical post that will provide electricity for greenhouse #3 taken from the center showing the area's vegetation.		

Project #: PR-RGRW-03971	Photographer: Delise Torres Ortiz
Location Address: Carretera 811 KM 0.6 Int Bo. Cerdo Abajo, Sector Sabana, Naranjito 00719	Coordinates: 18.279655, -66.281036

<b>Photo #:</b> 19	<b>Date:</b> 05/30/ 2023
<b>Photo Direction:</b> South	
<b>Description:</b> This picture is an overview of the river right next to the site location for greenhouses #1 and #2, Rio Mavilla. The river has caused floods in the past with little or no damage to the area.	



<b>Photo #:</b> 20	<b>Date:</b> 05/30/ 2023
<b>Photo Direction:</b> South	
<b>Description:</b> This picture presents the above ground water tank or cistern the applicant is using for the crops which takes water from Rio Mavilla; this water tank uses electricity.	



Project #: PR-RGRW-03971	Photographer: Delise Torres Ortiz
Location Address: Carretera 811 KM 0.6 Int Bo. Cerdo Abajo, Sector Sabana, Naranjito 00719	Coordinates: 18.279655, -66.281036

<b>Photo #:</b> 21	<b>Date:</b> 05/30/ 2023
<b>Photo Direction:</b> South	
<b>Description:</b> This picture shows the electrical connection next to the site location for greenhouses #1 and #2 that will be used to provide illumination to the area; the 55-gallon drum is empty and not being used.	



<b>Photo #:</b> 22	<b>Date:</b> 05/30/ 2023
<b>Photo Direction:</b> East	
<b>Description:</b> This picture shows the electrical connection next to the site location for greenhouse #3 that will be used to move the irrigation system and provide illumination for greenhouses #1 and #2; the 55-gallon drum is empty and not being used.	



Project #: PR-RGRW-03971	Photographer: Delise Torres Ortiz
Location Address: Carretera 811 KM 0.6 Int Bo. Cerdo Abajo, Sector Sabana, Naranjito 00719	Coordinates: 18.279655, -66.281036

<b>Photo #:</b> 23	<b>Date:</b> 05/30/ 2023
<b>Photo Direction:</b> Southwest	
<b>Description:</b> This picture overviews equipment for the greenhouses next to the site locations for greenhouse #1 and #2, and Rio Mavilla.	



<b>Photo #:</b> 24	<b>Date:</b> 05/30/ 2023
<b>Photo Direction:</b> South	
<b>Description:</b> This picture presents the applicant's residence built at the end of the 2010s and early 2020s.	

