

# **Environmental Assessment**

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

### **24 CFR Part 58**

#### **Project Information**

**Project ID:** PR-RGRW-00131

**Project Name:** PEKES FARM LLC

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

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

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

**Preparer:** Cristine Reguera, Deputy Program Manager

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

##### Permit and Environmental Compliance Officers:

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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 is located on a 275.91-acre parcel (Cadastral Number 102-000-010-35) at Carretera 134 Km 7.7 Barrio Bayaney Sect Berrocal, Hatillo, Puerto Rico 00659 (see **Appendix A, Figure 1-** Site Location and **Figure 2-** Site Vicinity). This property is in a rural area in the southern portion of Hatillo Municipio. Access to the project areas is provided via a paved road at the southwestern portion of the parcel. All proposed project activities are in the south-central portion of the property.

The applicant has identified two 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 Option 1 (18.343283, -66.815846) is in the southern part of the parcel, approximately 115 feet southwest from the applicant's residence.
- Greenhouse Option 2 (18.343440, -66.815672) is in the southern part of the parcel, approximately 52 feet northeast of Greenhouse Option 1.

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

The proposed project involves the installation of a new "Farm in the City" vertical hydroponic greenhouse. The proposed greenhouse is approximately 320 square feet (40 feet by 8 feet) with a height of approximately 9.5 feet. To secure the greenhouse, the applicant will create a base (44 feet by 12 feet) using four hardwood posts (4 inch by 4 inch) and fill the inside of the base with gravel. The greenhouse will be installed on top of the gravel base. The greenhouse container weighs approximately nine tons and can withstand winds up to 180 miles per hour; therefore, no further anchoring mechanism is anticipated. Greenhouse Option 1 is on a gentle slope, so the gravel will also serve to level the site. Greenhouse Option 2 is currently occupied by an existing hydroponic greenhouse that will be moved if the site is selected.

Water and electricity connections to the greenhouses will be provided from the applicant's residence, which is located approximately 106 feet southwest of Greenhouse Option 1 and approximately 37 feet south of Greenhouse Option 2. Water to irrigate the greenhouse will be provided from a water connection at the residence that is connected to the aqueduct managed by the Autoridad de Acueductos y Alcantarillados (AAA). All irrigation piping and connections to the greenhouse will be aboveground surface lines. The irrigation system is not part of the Intended Use of Grant Funds. For electricity, the applicant will run an aboveground cable from the electrical weather head at the applicant's residence to the greenhouses. In the future, the applicant intends to install solar panels using private funds. The solar panels and electrical connections are not part of the Intended Use of Grant Funds.

The project will have minimal ground disturbance and no vegetation or tree clearing is required for construction. The applicant owns the property; therefore, no acquisition is required.

**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 does not have the resources to purchase farming equipment and materials for their agricultural operation nor has the applicant received any other outside source of funding for the project. The new greenhouse will help increase agricultural production on the farm and support continued local agricultural production during future disasters. Additionally, the Farm in the City greenhouses are more efficient with water usage than traditional greenhouses, which will help the applicant save money on the use of potable water.

Agencies consulted for the proposed project are provided in the *List of Sources, Agencies and Persons Consulted* section of this 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 general topography of the property is hilly with open pastures and vegetated areas. The land use of the northern portion of the property (north of PR-129) is classified as Rural Land Specially Protected – Agricultural (SREP-A) and the southern portion is classified as Rural Land Specially Protected – Ecological/ Water (SREP-EH). All project components are in the southern portion of the property. Low to moderate density development occurs to west and south of the property.

All optional sites for the greenhouse are currently undeveloped and vegetated land. Site Option 2 is currently occupied by a traditional hydroponic greenhouse, which will be moved if the site is selected.

## 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:** \$100,000

**Estimated Total Project Cost** (HUD and non-HUD funds) [24 CFR 58.32(d)]: \$100,000

## 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.

Compliance Factors: 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 feet of a civil primary or commercial service airport or within 15,000 feet of a military airport. The nearest civil primary or commercial service airport, Eugenio Maria De Hostos, is located 117,224 feet (22 miles) from the project sites. The nearest military airport, Luis Munoz Marin International Airport, is located 279,395 feet (53 miles) from the project sites. No further evaluation is required. The project is in compliance with airport hazards requirements.  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><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, Penon Brusi, is located 50,255 feet (10 miles) from the project sites. 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 72000C0580H (effective date 04/19/2005), 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 is in Hatillo Municipio, which is within a U.S. Environmental Protection Agency (USEPA) designated attainment area. Project activities include new construction of a greenhouse. 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. 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 49,045 feet (9 miles) from the project sites. 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 June 9, 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 (see <b>Appendix C-</b> Environmental Site Inspection Report).</p> <p>In addition, a desktop review of USEPA databases, NEPAssist, and other sources was conducted to determine if the project sites were 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 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 that could affect the health and safety of project occupants</p>

		<p>or conflict with the intended use of the property. One water discharger is located 2,254 feet north of the project sites. The water discharger is inactive and does not pose a hazard to the project. The project is in compliance with contamination and toxic substances requirements.</p> <p>The Contamination and Toxics Substances Partner Worksheet and Contamination and Toxic Substances Map (<b>Figure B 6-1</b>) are provided in <b>Appendix B, Attachment 6.</b></p>
<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 type="checkbox"/>    <input checked="" 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. 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 and the Puerto Rico Department of Natural and Environmental Resources (DNER) Species Ranges database. In addition, critical species habitat was reviewed through the USFWS IPaC, Critical Habitat Portal, and the DNER Puerto Rico State Wildlife Action Plan, a Ten-Year Review database.</p> <p>The review identified seven federally listed species (Puerto Rican Broad-winged Hawk [<i>Buteo platypterus brunnescens</i>], Puerto Rican Parrot [<i>Amazona vittata</i>], Puerto Rican Boa [<i>Chilobothrus inornatus</i>], Beautiful Goetzea [<i>Goetzea elegans</i>], <i>Cordia bellonis</i>, Palma de Manaca [<i>Calyptronoma rivalis</i>], and Palo de Nigua [<i>Cornutia obovata</i>]) and two state listed species (Peregrine Falcon [<i>Falco peregrinus tundrius</i>] and Brown Pelican [<i>Pelecanus occidentalis</i>]) with the potential to occur within the project area. There is no designated or</p>

		<p>proposed critical habitat within the project area. The closest final designated critical habitat is located 76,383 feet (14 miles) south of the project sites, and the closest proposed critical habitat is located 28,240 feet (5 miles) east of the project sites.</p> <p>The project activities will result in ground disturbing activities, including site clearance and grading and installation of a new vertical hydroponic greenhouse. A qualified biologist reviewed the proposed activity locations and determined that no suitable habitat is present for any federal or state listed species at the proposed project locations. Therefore, as currently designed, the proposed project activities will have <i>No effect</i> on any federally listed species or designated critical habitat and <i>no impact</i> to all state protected species.</p> <p>If a Puerto Rican Boa is found in the project action 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 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, and 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 installation of a new greenhouse at one of two locations (Option 1 or 2). 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.</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. 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.</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>A review of the Advisory Base Flood Elevation (ABFE) map, Community Panel 72000C0580H (effective date 04/19/2005), shows the project sites are in Flood Zone X. The project sites are 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.</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 the installation of a new vertical hydroponic greenhouse on undeveloped land and ground disturbing activities of previously undisturbed soil. 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 June 9, 2023, by an SOI-qualified Archaeologist. Record reviews and research were conducted at the SHPO and the Institute for Puerto Rican Culture (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 the Puerto Rico Department of Housing (PRDOH) for concurrence on July 21, 2023, and SHPO concurred with the No Historic Properties Affected determination on August 4, 2023. No further evaluation is required. The project is in compliance with the National Historic Preservation Act.</p> <p>The Historic Preservation Partner Worksheet 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 construction of a greenhouse and do not involve residential new construction or rehabilitation. 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. The project is in compliance with the Safe Drinking Water Act.</p>

<p><b>Wetlands Protection</b></p> <p>Executive Order 11990, particularly sections 2 and 5</p>	<p>Yes    No</p> <p><input type="checkbox"/>   <input checked="" type="checkbox"/></p>	<p>The project sites were reviewed for wetlands using the USFWS Wetland Inventory Mapper and a visual confirmation during the field site inspection. No wetlands were determined to be present on the sites. No further evaluation is required. The project is in compliance with Executive Order 11990.</p> <p>The Wetlands Protection Partner Worksheet and Wetland Map (<b>Figure B 12-1</b>) are provided in <b>Appendix B, Attachment 12.</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 Hatillo Municipio. The closest Wild and Scenic River segment is located 356,203 feet (67 miles) from the project sites. 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 13-1</b>) are provided in <b>Appendix B, Attachment 13.</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 strengthen and alleviate negative economic impacts to 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 not facilitate development that will 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 EJScreen Report are provided in <b>Appendix B, Attachment 14.</b></p>

**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>		
Conformance with Plans / Compatible Land Use and Zoning / Scale and Urban Design	2	<p>The entire property is zoned as resource conservation (C-R) land use. The land use of the northern portion of the property (north of PR-129) is classified as Rural Land Specially Protected – Agricultural (SREP-A) and the southern portion is classified as Rural Land Specially Protected – Ecological/ Water (SREP-EH). All project components are in the southern portion of the property. The proposed action is continued agricultural use of property, which is compatible with zoning and existing land use. The project site is in a rural area of Hatillo 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>

Soil Suitability/ Slope/ Erosion/ Drainage/ Storm Water Runoff	2	<p>Soil suitability will be assessed prior to construction and will be addressed during local permitting processes. 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. The general topography of the property is hilly with open vegetated areas.</p> <p>Landslide data from the U.S. Geological Survey (USGS) indicates no landslides for the project area (see <b>Appendix A, Figure 3-</b> USGS Landslide Map).</p> <p>DNER authorization is required for any extraction, removal, excavation, and dredging of the components of the earth's crust.</p>
Hazards and Nuisances including Site Safety and Noise	2	<p>Contractors will be required to provide health and safety plans and monitoring during construction. Noise levels will temporarily increase during construction; however, program activities are limited to the existing farm property and will not elevate ambient 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 and to the hours established in the Regulation for Noise Control and Pollution in Puerto Rico. Additionally, the project does not include housing to where inhabitants would be affected.</p>
Energy Consumption	2	<p>The project will not result in significant additional energy consumption as it involves only the installation of a greenhouse on an existing farm and will not require any expansion to existing power facilities. In the future, the applicant intends to install solar panels with private funds.</p>

Environmental Assessment Factor	Impact Code	Impact Evaluation
SOCIOECONOMIC		
Employment and Income Patterns	2	<p>The project will result in short-term benefit to employment if contractors are hired for the construction of a greenhouse. After construction, the project will support the continuation of operations and intended use of the farm, which produces produce for Puerto Rico communities.</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 local agricultural business development.
Demographic Character Changes, Displacement	2	The project is a rural area in Hatillo 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.

Environmental Assessment Factor	Impact Code	Impact Evaluation
<b>COMMUNITY FACILITIES AND SERVICES</b>		
Educational and Cultural Facilities	2	The proposed project activities will occur 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 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.
Health Care and Social Services	2	The proposed project activities will occur on private land and will not affect access to or capacity of health care and social services.
Solid Waste Disposal / Recycling	2	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) or reused if possible. The project will not contribute to long-term needs or changes to solid waste disposal and recycling.
Wastewater / Sanitary Sewers	2	The installation of a new greenhouse 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 proposed project activities are not expected to result in significant changes to water supply. The greenhouse will be connected to municipal water, and all irrigation piping and connections will be aboveground surface lines. Additionally, the Farm in the City greenhouses are more efficient with water usage than traditional greenhouses, which will help the applicant save money on the use of potable water.
Public Safety - Police, Fire and Emergency Medical	2	The proposed project activities will occur 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 proposed project activities will occur 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 activities will occur 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 is not located in proximity to unique natural features or water resources; therefore, construction activities will not affect quality or access to these resources.
Vegetation, Wildlife	2	The project area has already been previously disturbed for residential use and farm operations; therefore, the project is not anticipated to result in any new impacts to trees, vegetation, wildlife, or native plant communities. No tree clearing or pruning is anticipated prior to the installation of the greenhouse.
Climate Change	2	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

	<p>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 use. The irrigation system used will allow the applicant to control the water to the crops, reducing water consumption in comparison to open air farming that often results in higher evapotranspiration. Additionally, project activities will not result in tree clearing that would contribute to a loss in carbon capture.</p>
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**Additional Studies Performed:**

No additional studies were performed.

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

Field inspection completed on June 9, 2023, by Delise Torres-Ortiz, SWCA Environmental Consultants.

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

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 26, 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 \(faa.gov\)](#).

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**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.

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

The installation of a greenhouse at either 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]

Within the boundaries of the property, other locations could be considered for the new greenhouse; however, other locations may result in tree clearing prior to construction.

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

Under the No Action Alternative, the applicant would not receive federal funding to install a new greenhouse. 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 effects on the surrounding natural, historical, and water resources; generate significant air or noise pollution; or promote socioeconomic injustices. The proposed project activities will not require further agency consultation. No mitigation or formal compliance steps will be required for any of the laws and authorities assessed in this review.

## **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.

<b>Law, Authority, or Factor</b>	<b>Mitigation Measure</b>
<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.  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.</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>Conformance with Plans / Compatible Land Use and Zoning / Scale and Urban Design</p>	<p>The proposed action is continued agricultural use of property, which is compatible with zoning and 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.</p>
<p>Soil Suitability/ Slope/ Erosion/ Drainage/ Storm Water Runoff</p>	<p>Soil suitability will be assessed prior to construction. Contractors will be required to use best management practices during construction.</p>

	DNER authorization is 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).

**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: *Cristine Reguera* Date: September 27, 2023

Name/Title/Organization: Cristine Reguera, SWCA Environmental Consultants

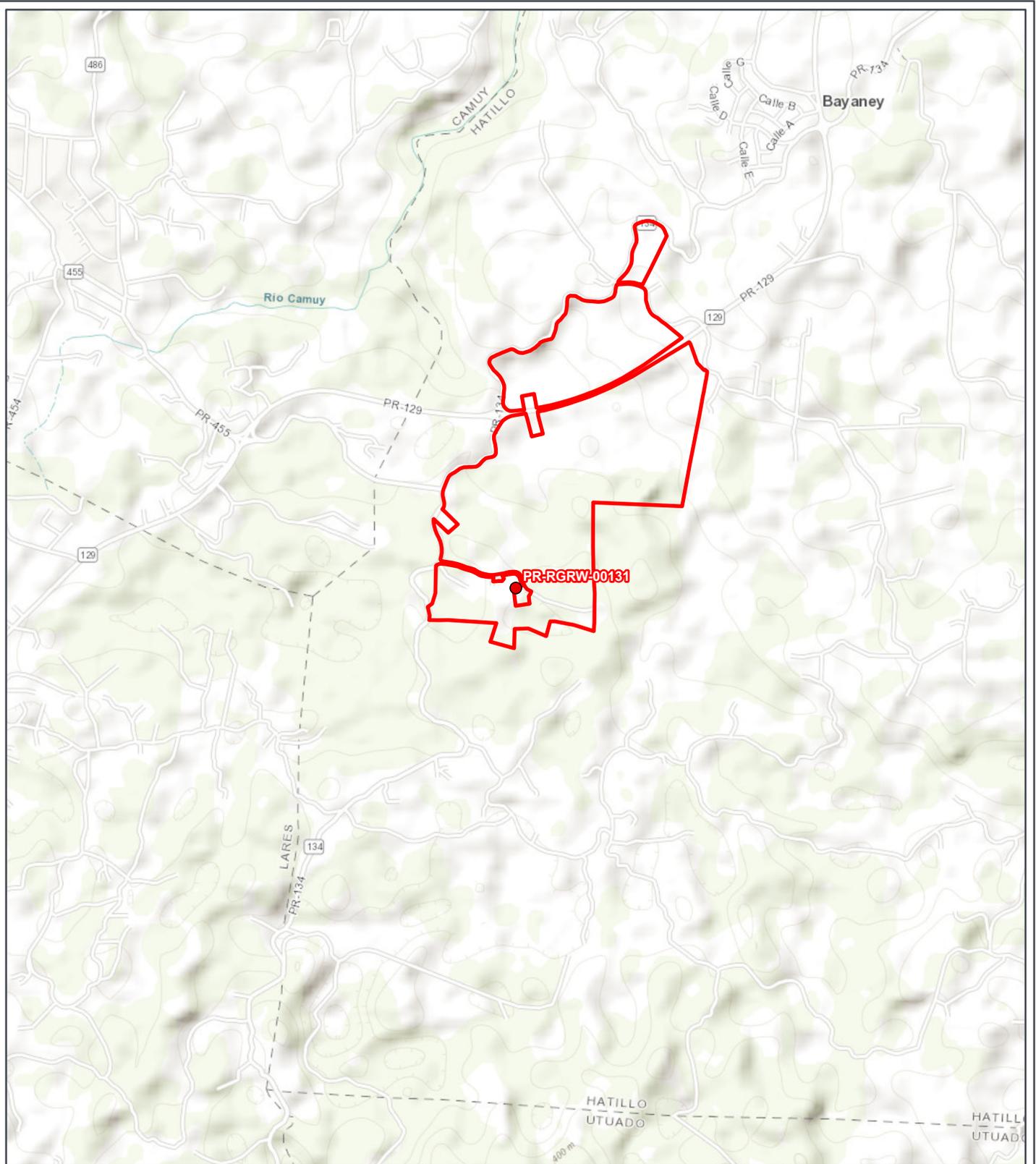
Certifying Officer Signature: *I. Lorenzo* Date: Oct. 11, 2023

Name/Title: I. Lorenzo, 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**



REGROW PROGRAM

**Figure A-1:  
Site Location**

Applicant ID: PR-RGRW-00131

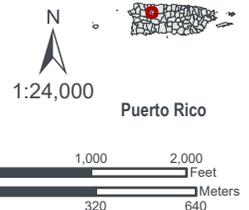


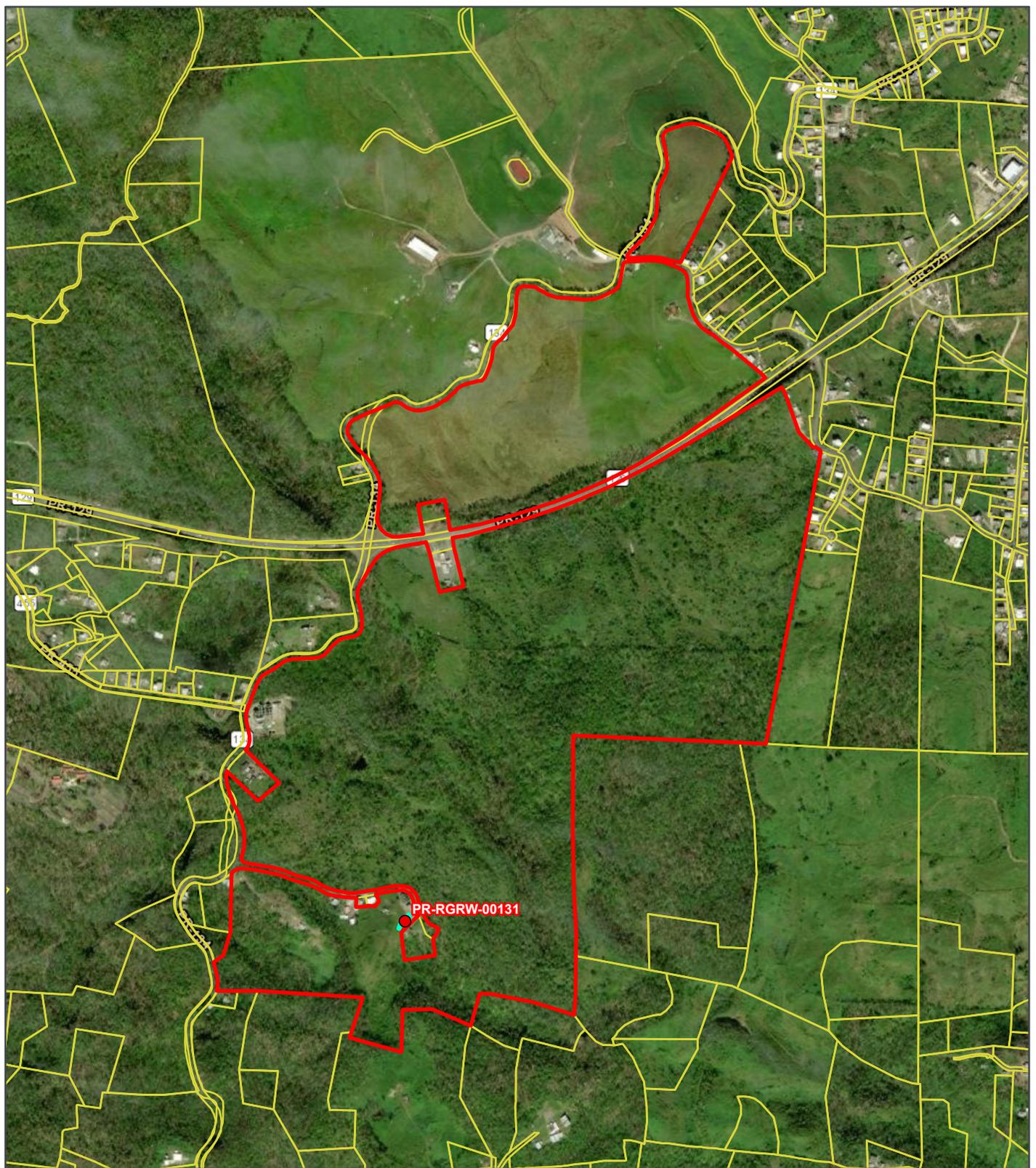
- Site
- Site Parcel

Carr. 134 Km 7.7 Bo. Bayaney  
Sect Berrocal  
Hatillo, Puerto Rico 00659

Parcel ID: 102-000-010-35  
Parcel Center:  
66.815747°W 18.343371°N

Base Map: ESRI ArcGIS Online,  
accessed June 2023  
Updated: 6/13/2023  
Layout: Site Location  
Aprx: 72428\_ReGrowTier2Maps





REGROW PROGRAM

**Figure A-2:  
Site Vicinity**

Applicant ID: PR-RGRW-00131



- Site
- Site Parcel
- Project Footprint (Option)

Carr. 134 Km 7.7 Bo. Bayaney  
Sect Berrocal  
Hatillo, Puerto Rico 00659

Parcel ID: 102-000-010-35  
Parcel Center:  
66.813603°W 18.349495°N

Base Map: ESRI ArcGIS Online,  
accessed June 2023  
Updated: 6/13/2023  
Layout: Site Vicinity  
Aprx: 72428\_ReGrowTier2Maps



1:11,100





REGROW PROGRAM

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

Applicant ID: PR-RGRW-00131

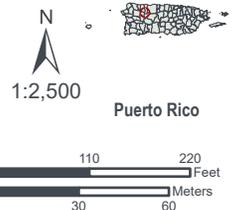


- Site
- Site Parcel
- Project Footprint (Option)
- Greater than 25 Landslides per sq km
- Less than 25 Landslides per sq km
- No Landslides
- Not Examined

Carr. 134 Km 7.7 Bo. Bayaney  
Sect Berrocal  
Hatillo, Puerto Rico 00659

Parcel ID: 102-000-010-35  
Parcel Center:  
66.815747°W 18.343371°N

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: ESRI ArcGIS Online, accessed August 2023  
Updated: 8/18/2023  
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 sites are not within 2,500 feet of a civil primary or commercial service airport or within 15,000 feet of a military airport. The nearest civil primary or commercial service airport, Eugenio Maria De Hostos, is located 117,224 feet (22 miles) from the project sites. The nearest military airport, Luis Munoz Marin International Airport, is located 279,395 feet (53 miles) from the project sites. 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-00131



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

Carr. 134 Km 7.7 Bo. Bayaney  
Sect Berrocal  
Hatillo, Puerto Rico 00659

Parcel ID: 102-000-010-35  
Parcel Center:  
66.579058°W 18.348824°N

Data Source: <https://geodata.bts.gov/>  
Base Map: ESRI ArcGIS Online,  
accessed June 2023  
Updated: 6/13/2023  
Layout: Airport Hazards  
Aprx: 72428\_ReGrowTier2Maps



1:794,000



Puerto Rico



0 37,320 74,640 Feet



0 10,000 20,000 Meters

## **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

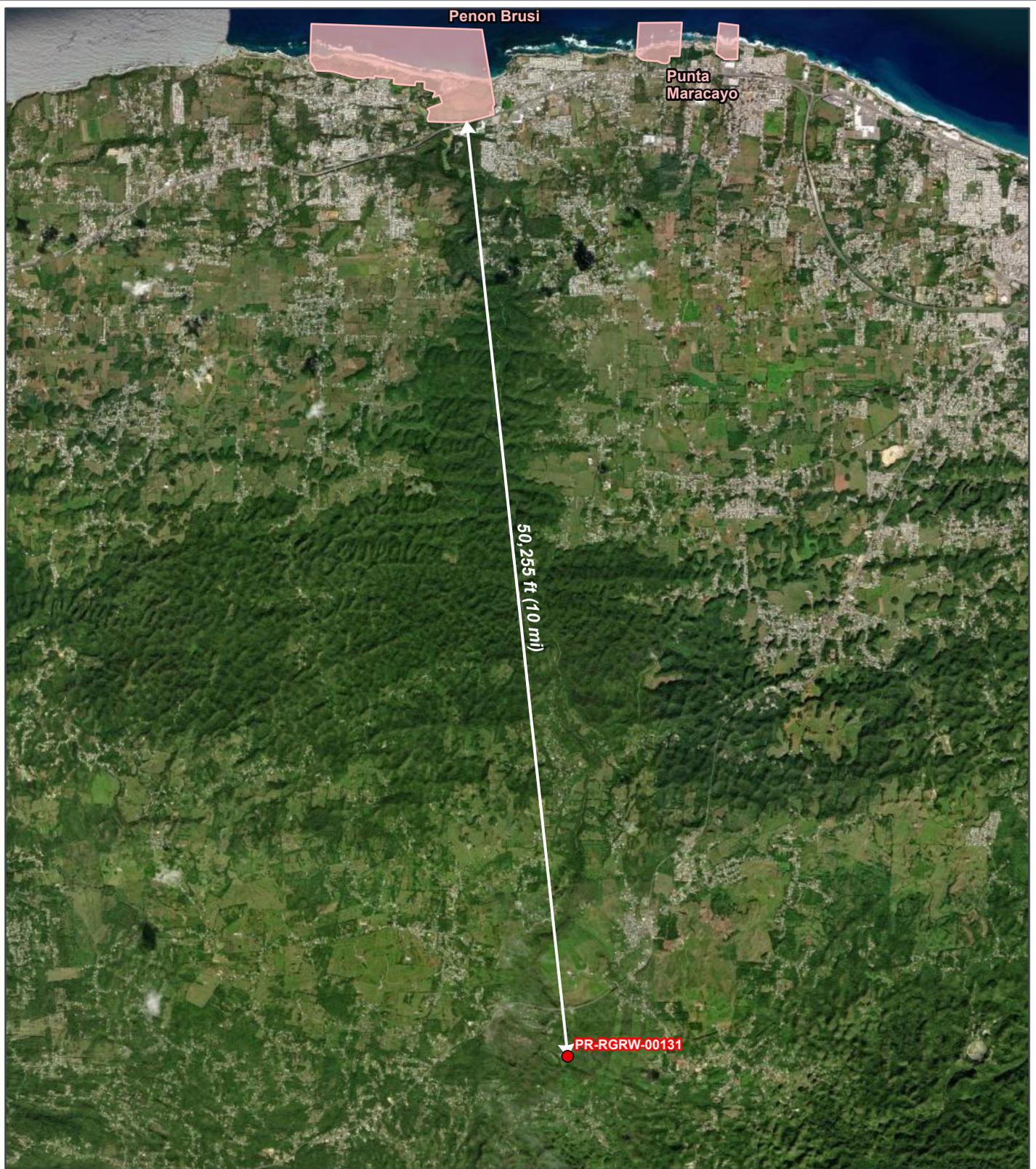
### **Include all documentation supporting your findings in your submission to HUD.**

The project sites are not located in a Coastal Barrier Resource Systems Unit (CBRS) or Otherwise Protected Area (OPA). The closest CBRS unit, Penon Brusi, is located 50,255 feet (10 miles) from the project sites. No further evaluation is required. The project is in compliance with the Coastal Barrier Resources Act.



**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.



REGROW PROGRAM

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

Applicant ID: PR-RGRW-00131

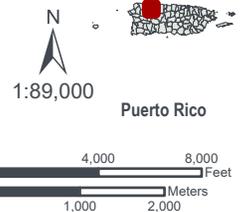


- Site
- Otherwise Protected Area
- System Unit

Carr. 134 Km 7.7 Bo. Bayaney  
Sect Berrocal  
Hatillo, Puerto Rico 00659

Parcel ID: 102-000-010-35  
Parcel Center:  
66.823673°W 18.412152°N

Data Source: <https://cbrsgis.wim.usgs.gov/arcgis/rest/services/CoastalBarrierResourcesSystem/MapServer>  
Base Map: ESRI ArcGIS Online, accessed June 2023  
Updated: 6/13/2023  
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 72000C0580H (effective date 04/19/2005), 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.



REGROW PROGRAM

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

Applicant ID: PR-RGRW-00131

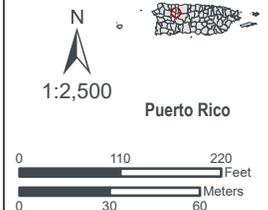


- Site
- Site Parcel
- Project Footprint (Option)
- Base Flood Elevations
- Zone A
- Zone AE
- Zone AH
- Zone AO
- Zone VE
- Floodway
- Zone X - Shaded (500-year floodplain)
- Zone X - Unshaded
- Area Not Included
- Open Water

Carr. 134 Km 7.7 Bo. Bayaney  
Sect Berrocal  
Hatillo, Puerto Rico 00659

Parcel ID: 102-000-010-35  
Parcel Center:  
66.815747°W 18.343371°N

Data Source: <https://hazards.fema.gov/gis/nfhl/rest/services/public/NFHL/MapServer>  
Base Map: ESRI ArcGIS Online, accessed June 2023  
Updated: 6/13/2023  
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

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.

## **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 Hatillo Municipio, which is within a U.S. Environmental Protection Agency (USEPA) designated attainment area. Project activities include new construction of a greenhouse. 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. 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-00131



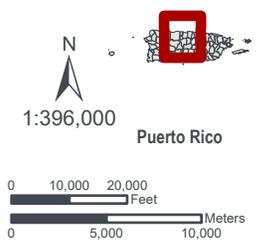
- Site
- 8-Hour Ozone (2015 Standard)\*
- Lead (2008 Standard)
- PM-2.5 (2012 Standard)\*
- Sulfur Dioxide (2010 Standard)

\*No Data in Puerto Rico

Carr. 134 Km 7.7 Bo. Bayaney  
Sect Berrocal  
Hatillo, Puerto Rico 00659

Parcel ID: 102-000-010-35  
Parcel Center:  
66.535358°W 18.394675°N

Data Source: [https://geopub.epa.gov/arcgis/rest/services/NEPAAssist/NEPAVELayersPublic\\_fgdb/MapServer](https://geopub.epa.gov/arcgis/rest/services/NEPAAssist/NEPAVELayersPublic_fgdb/MapServer)  
Base Map: ESRI ArcGIS Online, accessed June 2023  
Updated: 6/13/2023  
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

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 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.

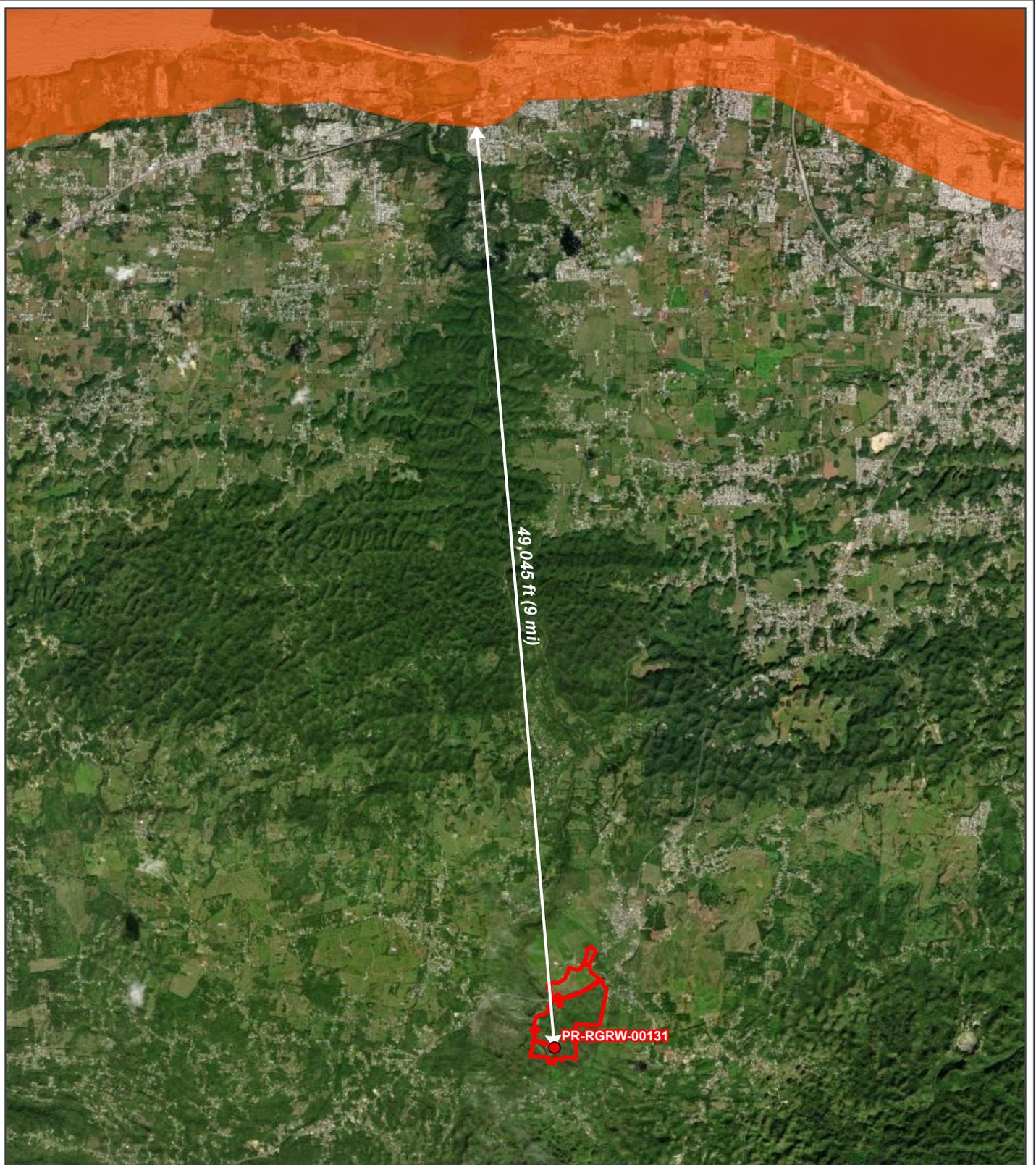
### **Worksheet Summary**

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 49,045 feet (9 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-00131

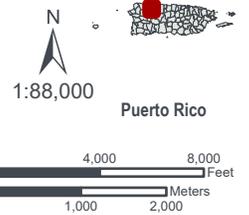


- Site
- Coastal Management Zone

Carr. 134 Km 7.7 Bo. Bayaney  
Sect Berrocal  
Hatillo, Puerto Rico 00659

Parcel ID: 102-000-010-35  
Parcel Center:  
66.821867°W 18.410648°N

Data Source: <https://coast.noaa.gov/arcgis/rest/services/Hosted/CoastalZoneManagementAct/BaseMap>: ESRI ArcGIS Online, accessed June 2023  
Updated: 6/13/2023  
Layout: Coastal Zone Management  
Aprx: 72428\_ReGrowTier2Maps



## **Attachment 6**

# **Contamination and Toxics Substances Partner Worksheet, Desktop Revieww Summary, and Toxics and Contamination 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.

## 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.

One water discharger is located 2,254 feet away, but it is inactive and does not pose a hazard to the project.

→ 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 site was evaluated for potential contamination by conducting a field site inspection on 06/09/2023 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.

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 desktop review did not find any of the above-listed toxic,

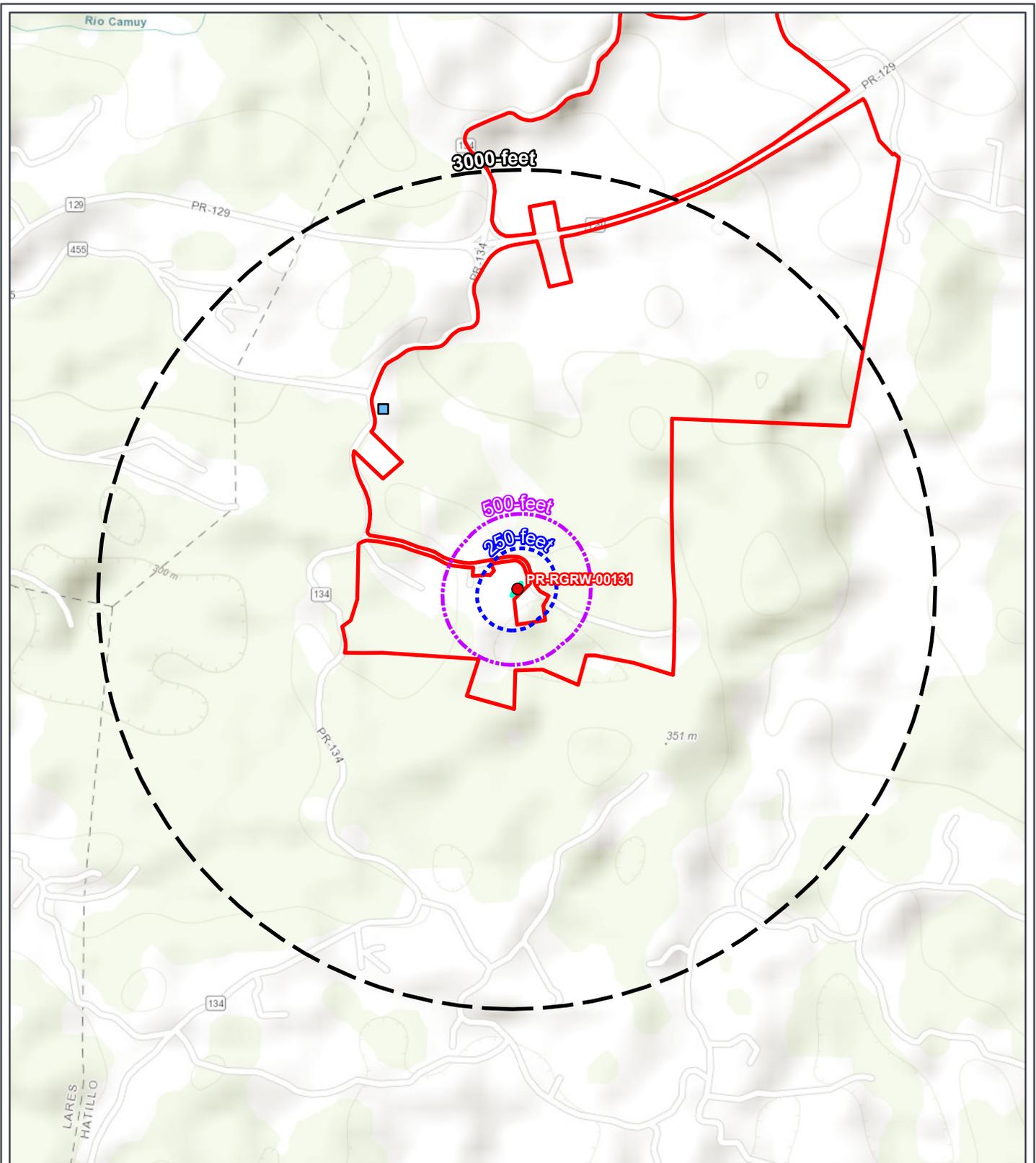
---

<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.

hazardous or radioactive substances in or within 3,000 feet of the project area that could affect the health and safety of project occupants or conflict with the intended use of the property. One water discharger is located north of the project sites, but it is inactive and does not pose a hazard to the project. The project is in compliance with contamination and toxic substances requirements.



REGROW PROGRAM

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

Applicant ID: PR-RGRW-00131

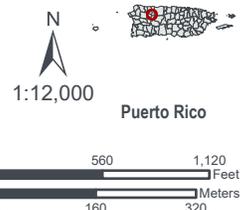


- Site
- ▭ Site Parcel
- ▭ Project Footprint (Option)
- ▭ Buffer (250-feet)
- ▭ Buffer (500-feet)
- ▭ Buffer (3000-feet)
- ▭ Water dischargers

- ▭ Toxic Substances Control Act
- ▭ Toxic releases
- ▭ Superfund
- ▭ Hazardous waste
- ▭ Brownfields
- ▭ Air pollution

Carr. 134 Km 7.7 Bo. Bayaney  
Sect Berrocal  
Hatillo, Puerto Rico 00659  
Parcel ID: 102-000-010-35  
Parcel Center:  
66.815747°W 18.343371°N

Data Source: <https://geopub.epa.gov/arcgis/rest/services/EMEF/MapServer>  
Base Map: ESRI ArcGIS Online, accessed September 2023  
Updated: 9/27/2023  
Layout: Contamination and Toxic Substances



**Contamination and Toxics Sites Summary**  
**Carr. 134 Km 7.7 Bo. Bayaney Sect Berrocal, Hatillo, PR 00659**

Database	Primary ID	Facility Name	Facility Address	Secondary ID	Latitude	Longitude	Distance (ft)	Status
Water Discharger	110037119551	PRASA QUEBRADA WTP	ROAD 129 KM. 23.2, INT. ROAD 134, QUEBRADA WARD	970	18.348667	-66.818528	2254	No violations identified. The date of the last compliance monitoring activity is 01/20/2011 and the compliance status is not applicable. EPA correspondence attached.

# Detailed Facility Report



## Detailed Facility Report

### Facility Summary

PRASA QUEBRADA WTP

PR-129 KM 23.2 INT PR-134 BO QUEBRADA, CAMUY, PR 00627

FRS (Facility Registry Service) ID: 110037119551

EPA Region: 02

Latitude: 18.348667

Longitude: -66.818528

Locational Data Source: ICIS

Industries: --

Indian Country: N

### Enforcement and Compliance Summary

Statute	CWA
Compliance Monitoring Activities (5 years)	--
Date of Last Compliance Monitoring Activity	01/20/2011
Compliance Status	Not Applicable
Qtrs in Noncompliance (of 12)	0
Qtrs with Significant Violation	0
Informal Enforcement Actions (5 years)	--
Formal Enforcement Actions (5 years)	--
Penalties from Formal Enforcement Actions (5 years)	--
EPA Cases (5 years)	--
Penalties from EPA Cases (5 years)	--

### Regulatory Information

Clean Air Act (CAA): No Information

Clean Water Act (CWA): Minor, Permit Not Needed (PR0026786)

Resource Conservation and Recovery Act (RCRA): No Information

Safe Drinking Water Act (SDWA): No Information

### Other Regulatory Reports

Air Emissions Inventory (EIS): No Information

Greenhouse Gas Emissions (eGGRT): No Information

Toxic Releases (TRI): No Information

Compliance and Emissions Data Reporting Interface (CEDRI): No Information

[Go To Enforcement/Compliance Details](#)  
[Known Data Problems](#)

## Facility/System Characteristics

### Facility/System Characteristics

System	Statute	Identifier	Universe	Status	Areas	Permit Expiration Date	Indian Country	Latitude	Longitude
FRS		<a href="#">110037119551</a>					N	18.348667	-66.818528
ICIS		32228					N	18.348667	-66.818528
ICIS		2658695					N	18.348667	-66.818528

System	Statute	Identifier	Universe	Status	Areas	Permit Expiration Date	Indian Country	Latitude	Longitude
ICIS		6683745					N	18.348667	-66.818528
ICIS-NPDES	CWA	PR0026786	Minor: NPDES Individual Permit	Not Needed			N	18.348667	-66.818528

### Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		<u>110037119551</u>	PRASA QUEBRADA WTP	PR-129 KM 23.2 INT PR-134 BO QUEBRADA, CAMUY, PR 00627	Camuy Municipio
ICIS		32228	PRASA QUEBRADA	CARRETERA 134 KM. 23.4, HATILLO, PR 00627	Vega Alta Municipio
ICIS		2658695	PRASA QUEBRADA	CARRETERA 134 KM. 23.4, HATILLO, PR 00627	Camuy Municipio
ICIS		6683745	PRASA QUEBRADA WTP	CARR. 129 KM 23.2, CAMUY, PR 00627	Camuy Municipio
ICIS-NPDES	CWA	PR0026786	PRASA QUEBRADA WTP	ROAD 129 KM. 23.2, INT. ROAD 134, QUEBRADA WARD, CAMUY, PR 00627	Camuy Municipio

### Facility SIC (Standard Industrial Classification) Codes

System	Identifier	SIC Code	SIC Description
ICIS-NPDES	PR0026786	4941	Water Supply

### Facility NAICS (North American Industry Classification System) Codes

System	Identifier	NAICS Code	NAICS Description
--------	------------	------------	-------------------

### Facility Industrial Effluent Guidelines

No data records returned

Identifier	Effluent Guideline (40 CFR Part)	Effluent Guideline Description
------------	----------------------------------	--------------------------------

No data records returned

### Facility Tribe Information

Reservation Name	Tribe Name	EPA Tribal ID	Distance to Tribe (miles)
------------------	------------	---------------	---------------------------

No data records returned

## Enforcement and Compliance

### Compliance Monitoring History

Last 5 Years

Statute	Source ID	System	Activity Type	Compliance Monitoring Type	Lead Agency	Date	Finding (if applicable)
---------	-----------	--------	---------------	----------------------------	-------------	------	-------------------------

No data records returned

*Entries in italics are not counted as EPA official inspections.*

### Compliance Summary Data

Statute	Source ID	Current SNC (Significant Noncompliance)/HPV (High Priority Violation)	Current As Of	Qtrs with NC (Noncompliance) (of 12)	Data Last Refreshed
CWA	PR0026786	No	12/31/2022	0	06/02/2023

### Three-Year Compliance History by Quarter

Statute	Program/Pollutant/Violation Type	QTR 1	QTR 2	QTR 3	QTR 4	QTR 5	QTR 6	QTR 7	QTR 8	QTR 9	QTR 10	QTR 11	QTR 12	QTR 13+
CWA	(Source ID: PR0026786)	01/01-03/31/20	04/01-06/30/20	07/01-09/30/20	10/01-12/31/20	01/01-03/31/21	04/01-06/30/21	07/01-09/30/21	10/01-12/31/21	01/01-03/31/22	04/01-06/30/22	07/01-09/30/22	10/01-12/31/22	01/01-06/02/23
	Facility-Level Status	Not Applicable												
	Quarterly Noncompliance Report History													

### Informal Enforcement Actions

Last 5 Years

Statute	System	Source ID	Type of Action	Lead Agency	Date
---------	--------	-----------	----------------	-------------	------

No data records returned

*Entries in italics are not counted as "informal enforcement actions" in EPA policies pertaining to enforcement response tools.*

### Formal Enforcement Actions

Last 5 Years

Statute	System	Law/Section	Source ID	Type of Action	Case No.	Lead Agency	Case Name	Issued/Filed Date	Settlements/Actions	Settlement/Action Date	Federal Penalty Assessed	State/Local Penalty Assessed	Penalty Amount Collected	SEP Value	Comp Action Cost
---------	--------	-------------	-----------	----------------	----------	-------------	-----------	-------------------	---------------------	------------------------	--------------------------	------------------------------	--------------------------	-----------	------------------

No data records returned

## Environmental Conditions

## Watersheds

12-Digit WBD (Watershed Boundary Dataset) HUC (RAD (Reach Address Database))	WBD (Watershed Boundary Dataset) Subwatershed Name (RAD (Reach Address Database))	State Water Body Name (ICIS (Integrated Compliance Information System))	Beach Closures Within Last Year	Beach Closures Within Last Two Years	Pollutants Potentially Related to Impairment	Watershed with ESA (Endangered Species Act)-listed Aquatic Species?
210100020506	Non-contributing area-Name not assigned	CAMUY RIVER	No	No	--	Yes

## Assessed Waters From Latest State Submission (ATTAINS)

State	Report Cycle	Assessment Unit ID	Assessment Unit Name	Water Condition	Cause Groups Impaired	Drinking Water Use	Aquatic Life	Fish Consumption Use	Recreation Use	Other Use
No data records returned										

## Air Quality Nonattainment Areas

Pollutant	Within Nonattainment Status Area?	Nonattainment Status Applicable Standard(s)	Within Maintenance Status Area?	Maintenance Status Applicable Standard(s)
No data records returned				

## Pollutants

### Toxics Release Inventory History of Reported Chemicals Released in Pounds per Year at Site

TRI Facility ID	Year	Total Air Emissions	Surface Water Discharges	Off-Site Transfers to POTWs (Publicly Owned Treatment Works)	Underground Injections	Releases to Land	Total On-Site Releases	Total Off-Site Transfers
No data records returned								

### Toxics Release Inventory Total Releases and Transfers in Pounds by Chemical and Year

Chemical Name
No data records returned

## Community

### Environmental Justice

This section shows indexes from EJScreen, EPA's screening tool for environmental justice (EJ) concerns. EPA uses these indexes to identify geographic areas that may warrant further consideration or analysis for potential EJ concerns. Use of these indexes does not designate an area as an "EJ community" or "EJ facility." EJScreen provides screening level indicators, not a determination of the existence or absence of EJ concerns. For more information, see the [EJScreen home page](#).

#### EJScreen Indexes Shown

Compare to  US  State

Index Type  Environmental Justice  Supplemental

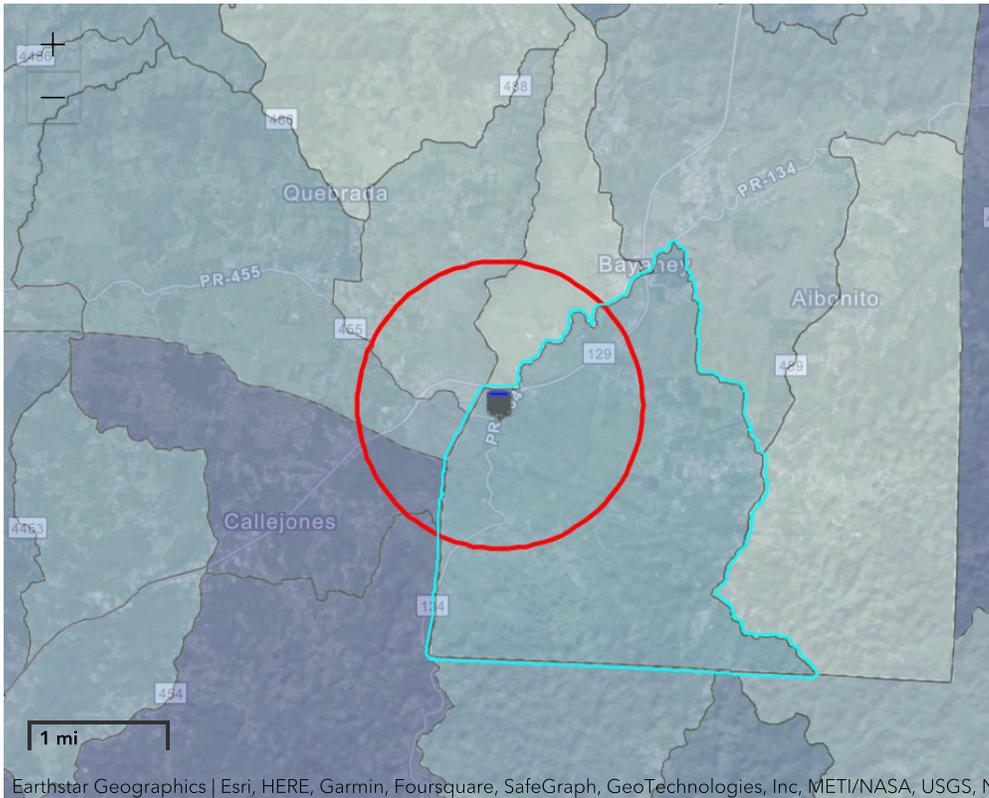
#### Related Reports

[EJScreen Report](#)

#### Download Data

Census Block Group ID: 720653106003	US (Percentile)	
Supplemental Indexes	Facility Census Block Group	1-mile Max
Count of Indexes At or Above 80th Percentile	4	6
Particulate Matter 2.5	--	--
Ozone	--	--
Diesel Particulate Matter	0	--
Air Toxics Cancer Risk	77	90
Air Toxics Respiratory Hazard Index	48	63
Traffic Proximity	86	95
Lead Paint	87	97
Risk Management Plan (RMP) Facility Proximity	67	99
Hazardous Waste Proximity	61	69
Superfund Proximity	96	98
Underground Storage Tanks (UST)	0	--
Wastewater Discharge	91	99

Facility 1-mile Radius  Facility Census Block Group



Earthstar Geographics | Esri, HERE, Garmin, Foursquare, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, NPS

Powered by Esri

### Demographic Profile of Surrounding Area (1 mile)

This section provides demographic information regarding the community surrounding the facility. ECHO compliance data alone are not sufficient to determine whether violations at a particular facility had negative impacts on public health or the environment. Statistics are based upon the 2010 U.S. Census and 2016 - 2020 American Community Survey (ACS) 5-year Summary and are accurate to the extent that the facility latitude and longitude listed below are correct. EPA's spatial processing methodology considers the overlap between the selected radii and the census blocks (for U.S. Census demographics) and census block groups (for ACS demographics) in determining the demographics surrounding the facility. For more detail about this methodology, see the [DFR Data Dictionary](#).

General Statistics (U.S. Census)	
Total Persons	1,242
Population Density	403/sq.mi.
Housing Units in Area	527

Age Breakdown (U.S. Census) - Persons (%)	
Children 5 years and younger	56 (5%)
Minors 17 years and younger	286 (23%)
Adults 18 years and older	956 (77%)
Seniors 65 years and older	155 (12%)

General Statistics (ACS (American Community Survey))	
Total Persons	1,640
Percent People of Color	100%
Households in Area	525
Households on Public Assistance	29
Persons With Low Income	1,281
Percent With Low Income	78%

Race Breakdown (U.S. Census) - Persons (%)	
White	1,085 (87%)
African-American	39 (3%)
Hispanic-Origin	1,236 (100%)
Asian/Pacific Islander	0 (0%)
American Indian	3 (0%)
Other/Multiracial	114 (9%)

Geography	
Radius of Selected Area	1 mi.
Center Latitude	18.348667
Center Longitude	-66.818528
Land Area	100%
Water Area	0%

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	250 (21.19%)
9th through 12th Grade	168 (14.24%)
High School Diploma	320 (27.12%)
Some College/2-year	49 (4.15%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	218 (18.47%)

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than \$15,000	173 (33.14%)
\$15,000 - \$25,000	136 (26.05%)
\$25,000 - \$50,000	142 (27.2%)
\$50,000 - \$75,000	47 (9%)
Greater than \$75,000	24 (4.6%)

LAST UPDATED ON SEPTEMBER 21, 2022

[DATA REFRESH INFORMATION](#)

## **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.**

No suitable habitat for any federal or state listed species is present within the proposed project location options and no tree clearing or vegetation removal is proposed as a part of construction activities; therefore, project activities will have *no effect* to any federal listed species or critical habitat and *no impact* on state listed species. The project site is five miles away from the closest proposed critical habitat and 14 miles away from the closest final designated critical habitat. See the attached Threatened and Endangered Species Technical Memorandum.

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## TECHNICAL MEMORANDUM

**For:** Puerto Rico Department of Housing  
CDBG-DR & CDBG-MIT Program  
ReGrow Environmental Assessment

**From:** Susan Fischer, Wildlife Ecologist

**Date:** June 28, 2023

**Re:** **Threatened and Endangered Species Review for Carr. 134 Km 7.7 Bo. Bayaney Sect Berrocal, Hatillo**

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**Project Name:** Pekes Farm LLC / PR-RGRW-00131  
**Site Address:** Carr. 134 Km 7.7 Bo. Bayaney Sect Berrocal, Hatillo, PR 00659  
**GPS Coordinates:** 18.343349, -66.815938

This Threatened and Endangered Species Review evaluates the installation of a freight container hydroponic greenhouse. This parcel is located at Carr. 134 Km 7.7 Bo. Bayaney Sect Berrocal, Hatillo, Puerto Rico. To complete this review, the United States Fish and Wildlife Service's (USFWS) Information for Planning and Consultation (IPaC) system, Puerto Rico Department of Natural and Environmental Resources (DNER) Species Ranges, and Puerto Rico State Wildlife Action Plan\_a Ten Year Review online mapping databases were consulted, then a site inspection performed to evaluate on-site nest and habitat potential. For the purposes of this review, the evaluation encompasses a maximum 100-foot buffer around the two proposed project location options.

The species list for the site was generated by the USFWS Caribbean Ecological Services Field Office in Boqueron, Puerto Rico (attached). Since all project activities will occur on land, marine and aquatic species have been excluded from the evaluation. For any activities located near wetlands and/or waterbodies, best management practices (BMPs) will be implemented to prevent impacts to freshwater species. According to the IPaC results, the property is located within the habitat range of seven terrestrial species considered to be threatened or endangered under the Endangered Species Act:

- Puerto Rican Broad-winged Hawk (*Buteo platypterus brunnescens*)
- Puerto Rican Parrot (*Amazona vittata*)
- Puerto Rican Boa (*Chilabothrus inornatus*)
- Beautiful Goetzea (*Goetzea elegans*)
- Cordia Bellonis (*Cordia bellonis*)
- Palma De Manca (*Calyptronoma rivalis*)
- Palo De Nigua (*Cornutia obovata*)

A review of the Puerto Rico DNER Species Ranges online system indicated the following additional state-listed species may occur in within the review area:

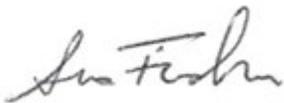
- Peregrine Falcon (*Falco peregrinus tundrius*)
- Brown Pelican (*Pelecanus occidentalis*)

A site inspection on June 9, 2023 found the parcel is situated in a rural area. The property is used for residential and agricultural production and the lot consists of a mix of cleared, agricultural, and forested areas. The proposed project area consists of cleared, open area. Representative photographs of the subject property are included in the Environmental Field Assessment Photographic Log. The review area does not contain trees that could provide suitable habitat to multiple federal- and state-listed species; however, no tree or vegetation removal is planned to occur, and inspectors did not observe any suitable ground or vegetative habitat, individuals, or nests for any listed species at either of the proposed project locations. There is no critical habitat for any species found within the subject property based on the USFWS and Puerto Rico State Wildlife Action Plan\_a Ten Year Review databases.

Based on agency data and site observations, this review concludes that the installation of freight container hydroponic greenhouse will result in *no effect* to all state and federally protected species with the potential to occur in the area.

I can be reached by phone (346-388-1157) or email (Susan.Fischer@swca.com) with any questions or concerns.

Sincerely,

A handwritten signature in cursive script, appearing to read "Susan Fischer".

Susan Fischer  
Wildlife Ecologist  
SWCA Environmental Consultants

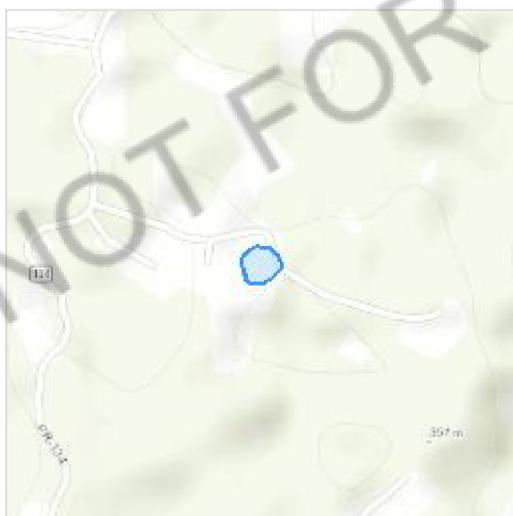
# IPaC resource list

This report is an automatically generated list of species and other resources such as critical habitat (collectively referred to as *trust resources*) under the U.S. Fish and Wildlife Service's (USFWS) jurisdiction that are known or expected to be on or near the project area referenced below. The list may also include trust resources that occur outside of the project area, but that could potentially be directly or indirectly affected by activities in the project area. However, determining the likelihood and extent of effects a project may have on trust resources typically requires gathering additional site-specific (e.g., vegetation/species surveys) and project-specific (e.g., magnitude and timing of proposed activities) information.

Below is a summary of the project information you provided and contact information for the USFWS office(s) with jurisdiction in the defined project area. Please read the introduction to each section that follows (Endangered Species, Migratory Birds, USFWS Facilities, and NWI Wetlands) for additional information applicable to the trust resources addressed in that section.

## Location

Hatillo County, Puerto Rico



## Local office

Caribbean Ecological Services Field Office

☎ (787) 834-1600

📠 (787) 851-7440

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

MAILING ADDRESS

Post Office Box 491  
Boqueron, PR 00622-0491

PHYSICAL ADDRESS

Office Park I  
State Road #2 Km 156.5, Suite 303}  
Mayaguez, PR 00680

NOT FOR CONSULTATION

# Endangered species

**This resource list is for informational purposes only and does not constitute an analysis of project level impacts.**

The primary information used to generate this list is the known or expected range of each species. Additional areas of influence (AOI) for species are also considered. An AOI includes areas outside of the species range if the species could be indirectly affected by activities in that area (e.g., placing a dam upstream of a fish population even if that fish does not occur at the dam site, may indirectly impact the species by reducing or eliminating water flow downstream). Because species can move, and site conditions can change, the species on this list are not guaranteed to be found on or near the project area. To fully determine any potential effects to species, additional site-specific and project-specific information is often required.

Section 7 of the Endangered Species Act **requires** Federal agencies to "request of the Secretary information whether any species which is listed or proposed to be listed may be present in the area of such proposed action" for any project that is conducted, permitted, funded, or licensed by any Federal agency. A letter from the local office and a species list which fulfills this requirement can **only** be obtained by requesting an official species list from either the Regulatory Review section in IPaC (see directions below) or from the local field office directly.

For project evaluations that require USFWS concurrence/review, please return to the IPaC website and request an official species list by doing the following:

1. Draw the project location and click CONTINUE.
2. Click DEFINE PROJECT.
3. Log in (if directed to do so).
4. Provide a name and description for your project.
5. Click REQUEST SPECIES LIST.

Listed species<sup>1</sup> and their critical habitats are managed by the [Ecological Services Program](#) of the U.S. Fish and Wildlife Service (USFWS) and the fisheries division of the National Oceanic and Atmospheric Administration (NOAA Fisheries<sup>2</sup>).

Species and critical habitats under the sole responsibility of NOAA Fisheries are **not** shown on this list. Please contact [NOAA Fisheries](#) for [species under their jurisdiction](#).

- 
1. Species listed under the [Endangered Species Act](#) are threatened or endangered; IPaC also shows species that are candidates, or proposed, for listing. See the [listing status page](#) for more information. IPaC only shows species that are regulated by USFWS (see [FAQ](#)).

2. [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.

The following species are potentially affected by activities in this location:

## Birds

NAME	STATUS
<p>Puerto Rican Broad-winged Hawk <i>Buteo platypterus brunnescens</i>            Wherever found            No critical habitat has been designated for this species.  <a href="https://ecos.fws.gov/ecp/species/5512">https://ecos.fws.gov/ecp/species/5512</a></p>	Endangered
<p>Puerto Rican Parrot <i>Amazona vittata</i>            Wherever found            No critical habitat has been designated for this species.  <a href="https://ecos.fws.gov/ecp/species/3067">https://ecos.fws.gov/ecp/species/3067</a></p>	Endangered

## Reptiles

NAME	STATUS
<p>Puerto Rican Boa <i>Chilabothrus inornatus</i>            Wherever found            No critical habitat has been designated for this species.  <a href="https://ecos.fws.gov/ecp/species/6628">https://ecos.fws.gov/ecp/species/6628</a></p>	Endangered

## Flowering Plants

NAME	STATUS
<p>Beautiful Goetzea <i>Goetzea elegans</i>            Wherever found            No critical habitat has been designated for this species.  <a href="https://ecos.fws.gov/ecp/species/6453">https://ecos.fws.gov/ecp/species/6453</a></p>	Endangered
<p><i>Cordia bellonis</i>            Wherever found            No critical habitat has been designated for this species.  <a href="https://ecos.fws.gov/ecp/species/7228">https://ecos.fws.gov/ecp/species/7228</a></p>	Endangered

**Palma De Manaca** *Calyptronoma rivalis*

Threatened

Wherever found

No critical habitat has been designated for this species.

<https://ecos.fws.gov/ecp/species/1272>**Palo De Nigua** *Cornutia obovata*

Endangered

Wherever found

No critical habitat has been designated for this species.

<https://ecos.fws.gov/ecp/species/4918>

## Critical habitats

Potential effects to critical habitat(s) in this location must be analyzed along with the endangered species themselves.

There are no critical habitats at this location.

You are still required to determine if your project(s) may have effects on all above listed species.

## Bald & Golden Eagles

There are no documented cases of eagles being present at this location. However, if you believe eagles may be using your site, please reach out to the local Fish and Wildlife Service office.

Additional information can be found using the following links:

- Eagle Management <https://www.fws.gov/program/eagle-management>
- Measures for avoiding and minimizing impacts to birds  
<https://www.fws.gov/library/collections/avoiding-and-minimizing-incident-take-migratory-birds>
- Nationwide conservation measures for birds  
<https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf>

**What does IPaC use to generate the potential presence of bald and golden eagles in my specified location?**

The potential for eagle presence is derived from data provided by the [Avian Knowledge Network \(AKN\)](#). The AKN data is based on a growing collection of [survey, banding, and citizen science datasets](#) and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle ([Eagle Act](#) requirements may apply). To see a list of all birds potentially present in your project area, please visit the [Rapid Avian Information Locator \(RAIL\) Tool](#).

### **What does IPaC use to generate the probability of presence graphs of bald and golden eagles in my specified location?**

The Migratory Bird Resource List is comprised of USFWS [Birds of Conservation Concern \(BCC\)](#) and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by the [Avian Knowledge Network \(AKN\)](#). The AKN data is based on a growing collection of [survey, banding, and citizen science datasets](#) and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle ([Eagle Act](#) requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the [Rapid Avian Information Locator \(RAIL\) Tool](#).

### **What if I have eagles on my list?**

If your project has the potential to disturb or kill eagles, you may need to obtain a permit to avoid violating the [Eagle Act](#) should such impacts occur. Please contact your local Fish and Wildlife Service Field Office if you have questions.

## 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 should follow appropriate regulations and consider implementing appropriate conservation measures, as described below.

1. The [Migratory Birds Treaty Act](#) of 1918.
2. The [Bald and Golden Eagle Protection Act](#) of 1940.

Additional information can be found using the following links:

- Birds of Conservation Concern <https://www.fws.gov/program/migratory-birds/species>
- Measures for avoiding and minimizing impacts to birds <https://www.fws.gov/library/collections/avoiding-and-minimizing-incident-take->

### [migratory-birds](#)

- Nationwide conservation measures for birds

<https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf>

The [data](#) in this location indicates there are no migratory [birds of conservation concern](#) expected to occur in this area.

There may be migratory birds in your project area, but we don't have any survey data available to provide further direction. For additional information, please refer to the links above for recommendations to minimize impacts to migratory birds or contact your local FWS office.

**Tell me more about conservation measures I can implement to avoid or minimize impacts to migratory birds.**

[Nationwide Conservation Measures](#) describes measures that can help avoid and minimize impacts to all birds at any location year round. Implementation of these measures is particularly important when birds are most likely to occur in the project area. When birds may be breeding in the area, identifying the locations of any active nests and avoiding their destruction is a very helpful impact minimization measure. To see when birds are most likely to occur and be breeding in your project area, view the Probability of Presence Summary. [Additional measures](#) or [permits](#) may be advisable depending on the type of activity you are conducting and the type of infrastructure or bird species present on your project site.

**What does IPaC use to generate the list of migratory birds that potentially occur in my specified location?**

The Migratory Bird Resource List is comprised of USFWS [Birds of Conservation Concern \(BCC\)](#) and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by the [Avian Knowledge Network \(AKN\)](#). The AKN data is based on a growing collection of [survey, banding, and citizen science datasets](#) and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle ([Eagle Act](#) requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the [Rapid Avian Information Locator \(RAIL\) Tool](#).

**What does IPaC use to generate the probability of presence graphs for the migratory birds potentially occurring in my specified location?**

The probability of presence graphs associated with your migratory bird list are based on data provided by the [Avian Knowledge Network \(AKN\)](#). This data is derived from a growing collection of [survey, banding, and citizen science datasets](#).

Probability of presence data is continuously being updated as new and better information becomes available. To learn more about how the probability of presence graphs are produced and how to interpret them, go to the Probability of Presence Summary and then click on the "Tell me about these graphs" link.

### How do I know if a bird is breeding, wintering or migrating in my area?

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating or year-round), you may query your location using the [RAIL Tool](#) and look at the range maps provided for birds in your area at the bottom of the profiles provided for each bird in your results. If a bird on your migratory bird species list has a breeding season associated with it, if that bird does occur in your project area, there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

### What are the levels of concern for migratory birds?

Migratory birds delivered through IPaC fall into the following distinct categories of concern:

1. "BCC Rangewide" birds are [Birds of Conservation Concern](#) (BCC) that are of concern throughout their range anywhere within the USA (including Hawaii, the Pacific Islands, Puerto Rico, and the Virgin Islands);
2. "BCC - BCR" birds are BCCs that are of concern only in particular Bird Conservation Regions (BCRs) in the continental USA; and
3. "Non-BCC - Vulnerable" birds are not BCC species in your project area, but appear on your list either because of the [Eagle Act](#) requirements (for eagles) or (for non-eagles) potential susceptibilities in offshore areas from certain types of development or activities (e.g. offshore energy development or longline fishing).

Although it is important to try to avoid and minimize impacts to all birds, efforts should be made, in particular, to avoid and minimize impacts to the birds on this list, especially eagles and BCC species of rangewide concern. For more information on conservation measures you can implement to help avoid and minimize migratory bird impacts and requirements for eagles, please see the FAQs for these topics.

### Details about birds that are potentially affected by offshore projects

For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit the [Northeast Ocean Data Portal](#). The Portal also offers data and information about other taxa besides birds that may be helpful to you in your project review. Alternately, you may download the bird model results files underlying the portal maps through the [NOAA NCCOS Integrative Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf](#) project webpage.

Bird tracking data can also provide additional details about occurrence and habitat use throughout the year, including migration. Models relying on survey data may not include this information. For additional information on marine bird tracking data, see the [Diving Bird Study](#) and the [nanotag studies](#) or contact [Caleb Spiegel](#) or [Pam Loring](#).

### What if I have eagles on my list?

If your project has the potential to disturb or kill eagles, you may need to [obtain a permit](#) to avoid violating the Eagle Act should such impacts occur.

## Proper Interpretation and Use of Your Migratory Bird Report

The migratory bird list generated is not a list of all birds in your project area, only a subset of birds of priority concern. To learn more about how your list is generated, and see options for identifying what other birds may be in your project area, please see the FAQ "What does IPaC use to generate the migratory birds potentially occurring in my specified location". Please be aware this report provides the "probability of presence" of birds within the 10 km grid cell(s) that overlap your project; not your exact project footprint. On the graphs provided, please also look carefully at the survey effort (indicated by the black vertical bar) and for the existence of the "no data" indicator (a red horizontal bar). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort bar or no data bar means a lack of data and, therefore, a lack of certainty about presence of the species. This list is not perfect; it is simply a starting point for identifying what birds of concern have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list helps you know what to look for to confirm presence, and helps guide you in knowing when to implement conservation measures to avoid or minimize potential impacts from your project activities, should presence be confirmed. To learn more about conservation measures, visit the FAQ "Tell me about conservation measures I can implement to avoid or minimize impacts to migratory birds" at the bottom of your migratory bird trust resources page.

## Facilities

### National Wildlife Refuge lands

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 at this location.

### Fish hatcheries

There are no fish hatcheries at this location.

## Wetlands in the National Wetlands Inventory

## (NWI)

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](#).

This location did not intersect any wetlands mapped by NWI.

**NOTE:** This initial screening does **not** replace an on-site delineation to determine whether wetlands occur. Additional information on the NWI data is provided below.

### Data limitations

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

### Data exclusions

Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and nearshore coastal waters. Some deepwater reef communities (coral or tubercid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

### Data precautions

Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas

should seek the advice of appropriate Federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.

NOT FOR CONSULTATION

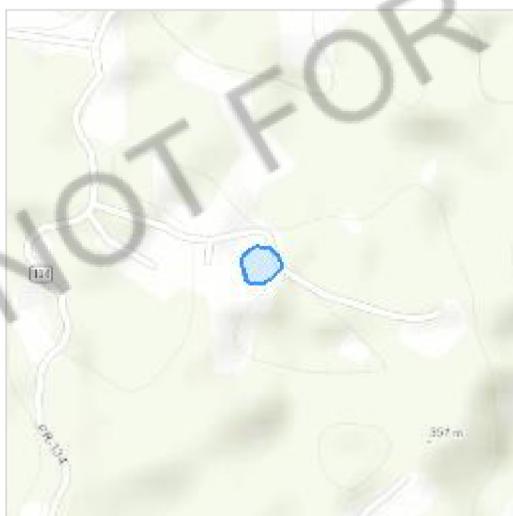
# IPaC resource list

This report is an automatically generated list of species and other resources such as critical habitat (collectively referred to as *trust resources*) under the U.S. Fish and Wildlife Service's (USFWS) jurisdiction that are known or expected to be on or near the project area referenced below. The list may also include trust resources that occur outside of the project area, but that could potentially be directly or indirectly affected by activities in the project area. However, determining the likelihood and extent of effects a project may have on trust resources typically requires gathering additional site-specific (e.g., vegetation/species surveys) and project-specific (e.g., magnitude and timing of proposed activities) information.

Below is a summary of the project information you provided and contact information for the USFWS office(s) with jurisdiction in the defined project area. Please read the introduction to each section that follows (Endangered Species, Migratory Birds, USFWS Facilities, and NWI Wetlands) for additional information applicable to the trust resources addressed in that section.

## Location

Hatillo County, Puerto Rico



## Local office

Caribbean Ecological Services Field Office

☎ (787) 834-1600

📠 (787) 851-7440

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

MAILING ADDRESS

Post Office Box 491  
Boqueron, PR 00622-0491

PHYSICAL ADDRESS

Office Park I  
State Road #2 Km 156.5, Suite 303}  
Mayaguez, PR 00680

NOT FOR CONSULTATION

# Endangered species

**This resource list is for informational purposes only and does not constitute an analysis of project level impacts.**

The primary information used to generate this list is the known or expected range of each species. Additional areas of influence (AOI) for species are also considered. An AOI includes areas outside of the species range if the species could be indirectly affected by activities in that area (e.g., placing a dam upstream of a fish population even if that fish does not occur at the dam site, may indirectly impact the species by reducing or eliminating water flow downstream). Because species can move, and site conditions can change, the species on this list are not guaranteed to be found on or near the project area. To fully determine any potential effects to species, additional site-specific and project-specific information is often required.

Section 7 of the Endangered Species Act **requires** Federal agencies to "request of the Secretary information whether any species which is listed or proposed to be listed may be present in the area of such proposed action" for any project that is conducted, permitted, funded, or licensed by any Federal agency. A letter from the local office and a species list which fulfills this requirement can **only** be obtained by requesting an official species list from either the Regulatory Review section in IPaC (see directions below) or from the local field office directly.

For project evaluations that require USFWS concurrence/review, please return to the IPaC website and request an official species list by doing the following:

1. Draw the project location and click CONTINUE.
2. Click DEFINE PROJECT.
3. Log in (if directed to do so).
4. Provide a name and description for your project.
5. Click REQUEST SPECIES LIST.

Listed species<sup>1</sup> and their critical habitats are managed by the [Ecological Services Program](#) of the U.S. Fish and Wildlife Service (USFWS) and the fisheries division of the National Oceanic and Atmospheric Administration (NOAA Fisheries<sup>2</sup>).

Species and critical habitats under the sole responsibility of NOAA Fisheries are **not** shown on this list. Please contact [NOAA Fisheries](#) for [species under their jurisdiction](#).

- 
1. Species listed under the [Endangered Species Act](#) are threatened or endangered; IPaC also shows species that are candidates, or proposed, for listing. See the [listing status page](#) for more information. IPaC only shows species that are regulated by USFWS (see [FAQ](#)).

2. [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.

The following species are potentially affected by activities in this location:

## Birds

NAME	STATUS
<p>Puerto Rican Broad-winged Hawk <i>Buteo platypterus brunnescens</i> Wherever found No critical habitat has been designated for this species. <a href="https://ecos.fws.gov/ecp/species/5512">https://ecos.fws.gov/ecp/species/5512</a></p>	Endangered
<p>Puerto Rican Parrot <i>Amazona vittata</i> Wherever found No critical habitat has been designated for this species. <a href="https://ecos.fws.gov/ecp/species/3067">https://ecos.fws.gov/ecp/species/3067</a></p>	Endangered

## Reptiles

NAME	STATUS
<p>Puerto Rican Boa <i>Chilabothrus inornatus</i> Wherever found No critical habitat has been designated for this species. <a href="https://ecos.fws.gov/ecp/species/6628">https://ecos.fws.gov/ecp/species/6628</a></p>	Endangered

## Flowering Plants

NAME	STATUS
<p>Beautiful Goetzea <i>Goetzea elegans</i> Wherever found No critical habitat has been designated for this species. <a href="https://ecos.fws.gov/ecp/species/6453">https://ecos.fws.gov/ecp/species/6453</a></p>	Endangered
<p><i>Cordia bellonis</i> Wherever found No critical habitat has been designated for this species. <a href="https://ecos.fws.gov/ecp/species/7228">https://ecos.fws.gov/ecp/species/7228</a></p>	Endangered

**Palma De Manaca** *Calyptronoma rivalis*

Threatened

Wherever found

No critical habitat has been designated for this species.

<https://ecos.fws.gov/ecp/species/1272>**Palo De Nigua** *Cornutia obovata*

Endangered

Wherever found

No critical habitat has been designated for this species.

<https://ecos.fws.gov/ecp/species/4918>

## Critical habitats

Potential effects to critical habitat(s) in this location must be analyzed along with the endangered species themselves.

There are no critical habitats at this location.

You are still required to determine if your project(s) may have effects on all above listed species.

## Bald & Golden Eagles

There are no documented cases of eagles being present at this location. However, if you believe eagles may be using your site, please reach out to the local Fish and Wildlife Service office.

Additional information can be found using the following links:

- Eagle Management <https://www.fws.gov/program/eagle-management>
- Measures for avoiding and minimizing impacts to birds  
<https://www.fws.gov/library/collections/avoiding-and-minimizing-incidental-take-migratory-birds>
- Nationwide conservation measures for birds  
<https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf>

**What does IPaC use to generate the potential presence of bald and golden eagles in my specified location?**

The potential for eagle presence is derived from data provided by the [Avian Knowledge Network \(AKN\)](#). The AKN data is based on a growing collection of [survey, banding, and citizen science datasets](#) and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle ([Eagle Act](#) requirements may apply). To see a list of all birds potentially present in your project area, please visit the [Rapid Avian Information Locator \(RAIL\) Tool](#).

### **What does IPaC use to generate the probability of presence graphs of bald and golden eagles in my specified location?**

The Migratory Bird Resource List is comprised of USFWS [Birds of Conservation Concern \(BCC\)](#) and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by the [Avian Knowledge Network \(AKN\)](#). The AKN data is based on a growing collection of [survey, banding, and citizen science datasets](#) and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle ([Eagle Act](#) requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the [Rapid Avian Information Locator \(RAIL\) Tool](#).

### **What if I have eagles on my list?**

If your project has the potential to disturb or kill eagles, you may need to obtain a permit to avoid violating the [Eagle Act](#) should such impacts occur. Please contact your local Fish and Wildlife Service Field Office if you have questions.

## 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 should follow appropriate regulations and consider implementing appropriate conservation measures, as described below.

1. The [Migratory Birds Treaty Act](#) of 1918.
2. The [Bald and Golden Eagle Protection Act](#) of 1940.

Additional information can be found using the following links:

- Birds of Conservation Concern <https://www.fws.gov/program/migratory-birds/species>
- Measures for avoiding and minimizing impacts to birds <https://www.fws.gov/library/collections/avoiding-and-minimizing-incident-take->

### [migratory-birds](#)

- Nationwide conservation measures for birds

<https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf>

The [data](#) in this location indicates there are no migratory [birds of conservation concern](#) expected to occur in this area.

There may be migratory birds in your project area, but we don't have any survey data available to provide further direction. For additional information, please refer to the links above for recommendations to minimize impacts to migratory birds or contact your local FWS office.

**Tell me more about conservation measures I can implement to avoid or minimize impacts to migratory birds.**

[Nationwide Conservation Measures](#) describes measures that can help avoid and minimize impacts to all birds at any location year round. Implementation of these measures is particularly important when birds are most likely to occur in the project area. When birds may be breeding in the area, identifying the locations of any active nests and avoiding their destruction is a very helpful impact minimization measure. To see when birds are most likely to occur and be breeding in your project area, view the Probability of Presence Summary. [Additional measures](#) or [permits](#) may be advisable depending on the type of activity you are conducting and the type of infrastructure or bird species present on your project site.

**What does IPaC use to generate the list of migratory birds that potentially occur in my specified location?**

The Migratory Bird Resource List is comprised of USFWS [Birds of Conservation Concern \(BCC\)](#) and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by the [Avian Knowledge Network \(AKN\)](#). The AKN data is based on a growing collection of [survey, banding, and citizen science datasets](#) and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle ([Eagle Act](#) requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the [Rapid Avian Information Locator \(RAIL\) Tool](#).

**What does IPaC use to generate the probability of presence graphs for the migratory birds potentially occurring in my specified location?**

The probability of presence graphs associated with your migratory bird list are based on data provided by the [Avian Knowledge Network \(AKN\)](#). This data is derived from a growing collection of [survey, banding, and citizen science datasets](#).

Probability of presence data is continuously being updated as new and better information becomes available. To learn more about how the probability of presence graphs are produced and how to interpret them, go to the Probability of Presence Summary and then click on the "Tell me about these graphs" link.

### How do I know if a bird is breeding, wintering or migrating in my area?

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating or year-round), you may query your location using the [RAIL Tool](#) and look at the range maps provided for birds in your area at the bottom of the profiles provided for each bird in your results. If a bird on your migratory bird species list has a breeding season associated with it, if that bird does occur in your project area, there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

### What are the levels of concern for migratory birds?

Migratory birds delivered through IPaC fall into the following distinct categories of concern:

1. "BCC Rangewide" birds are [Birds of Conservation Concern](#) (BCC) that are of concern throughout their range anywhere within the USA (including Hawaii, the Pacific Islands, Puerto Rico, and the Virgin Islands);
2. "BCC - BCR" birds are BCCs that are of concern only in particular Bird Conservation Regions (BCRs) in the continental USA; and
3. "Non-BCC - Vulnerable" birds are not BCC species in your project area, but appear on your list either because of the [Eagle Act](#) requirements (for eagles) or (for non-eagles) potential susceptibilities in offshore areas from certain types of development or activities (e.g. offshore energy development or longline fishing).

Although it is important to try to avoid and minimize impacts to all birds, efforts should be made, in particular, to avoid and minimize impacts to the birds on this list, especially eagles and BCC species of rangewide concern. For more information on conservation measures you can implement to help avoid and minimize migratory bird impacts and requirements for eagles, please see the FAQs for these topics.

### Details about birds that are potentially affected by offshore projects

For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit the [Northeast Ocean Data Portal](#). The Portal also offers data and information about other taxa besides birds that may be helpful to you in your project review. Alternately, you may download the bird model results files underlying the portal maps through the [NOAA NCCOS Integrative Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf](#) project webpage.

Bird tracking data can also provide additional details about occurrence and habitat use throughout the year, including migration. Models relying on survey data may not include this information. For additional information on marine bird tracking data, see the [Diving Bird Study](#) and the [nanotag studies](#) or contact [Caleb Spiegel](#) or [Pam Loring](#).

### What if I have eagles on my list?

If your project has the potential to disturb or kill eagles, you may need to [obtain a permit](#) to avoid violating the Eagle Act should such impacts occur.

## Proper Interpretation and Use of Your Migratory Bird Report

The migratory bird list generated is not a list of all birds in your project area, only a subset of birds of priority concern. To learn more about how your list is generated, and see options for identifying what other birds may be in your project area, please see the FAQ "What does IPaC use to generate the migratory birds potentially occurring in my specified location". Please be aware this report provides the "probability of presence" of birds within the 10 km grid cell(s) that overlap your project; not your exact project footprint. On the graphs provided, please also look carefully at the survey effort (indicated by the black vertical bar) and for the existence of the "no data" indicator (a red horizontal bar). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort bar or no data bar means a lack of data and, therefore, a lack of certainty about presence of the species. This list is not perfect; it is simply a starting point for identifying what birds of concern have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list helps you know what to look for to confirm presence, and helps guide you in knowing when to implement conservation measures to avoid or minimize potential impacts from your project activities, should presence be confirmed. To learn more about conservation measures, visit the FAQ "Tell me about conservation measures I can implement to avoid or minimize impacts to migratory birds" at the bottom of your migratory bird trust resources page.

## Facilities

### National Wildlife Refuge lands

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 at this location.

### Fish hatcheries

There are no fish hatcheries at this location.

## Wetlands in the National Wetlands Inventory

## (NWI)

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](#).

This location did not intersect any wetlands mapped by NWI.

**NOTE:** This initial screening does **not** replace an on-site delineation to determine whether wetlands occur. Additional information on the NWI data is provided below.

### Data limitations

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

### Data exclusions

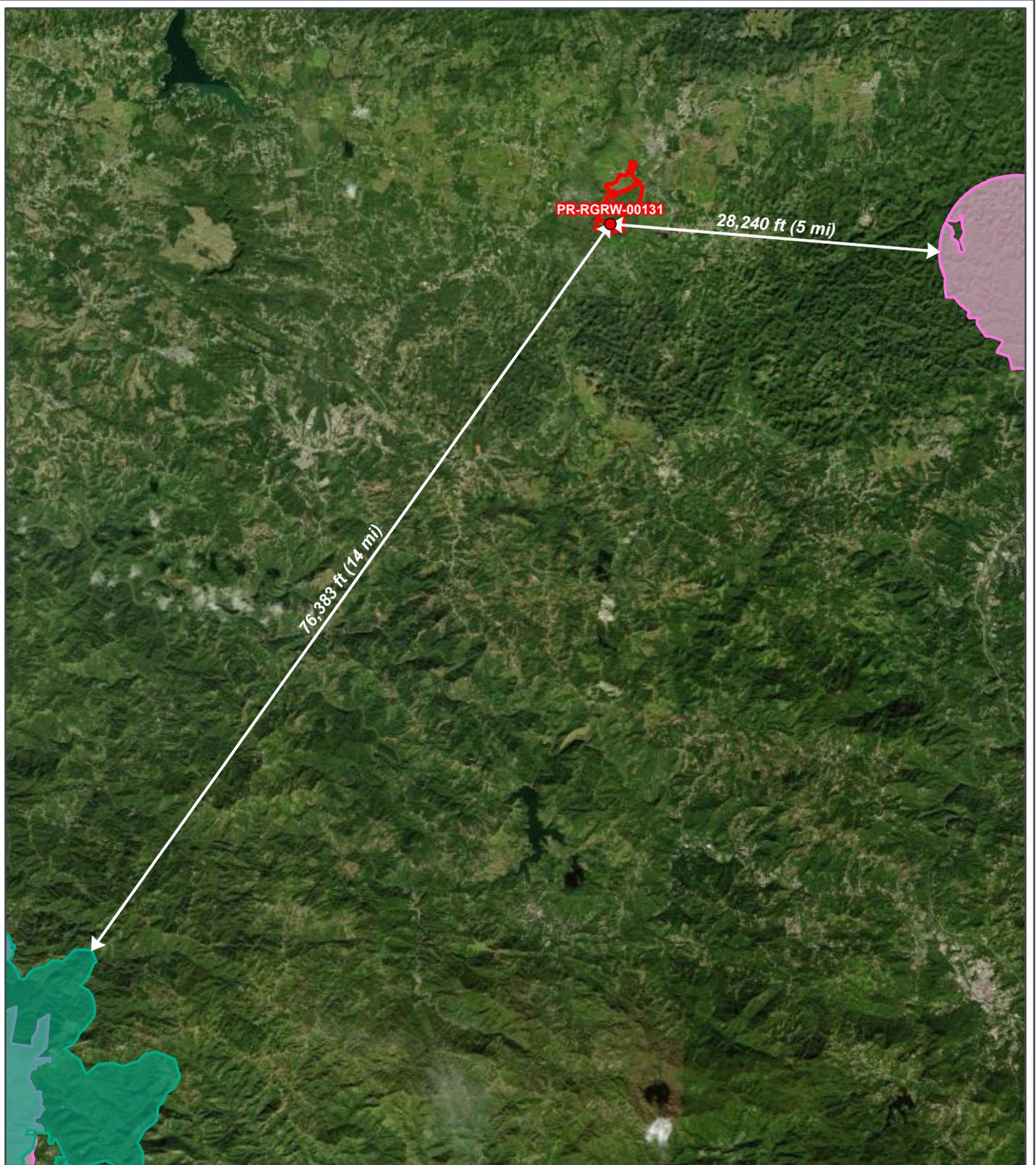
Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and nearshore coastal waters. Some deepwater reef communities (coral or tubercid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

### Data precautions

Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas

should seek the advice of appropriate Federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.

NOT FOR CONSULTATION



REGROW PROGRAM

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

Applicant ID: PR-RGRW-00131

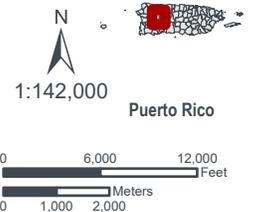


- Site
- Site Parcel
- Buffer (100-ft)
- Critical Habitat - Final
- Critical Habitat - Proposed
- National Wildlife Refuges

Carr. 134 Km 7.7 Bo. Bayaney  
Sect Berrocal  
Hatillo, Puerto Rico 00659

Parcel ID: 102-000-010-35  
Parcel Center:  
66.838963°W 18.257726°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: 6/13/2023  
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 installation of a new greenhouse at one of two locations (Option 1 or 2). 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-00131

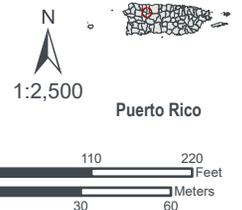


- Site
- Site Parcel
- Project Footprint (Option)
- All areas are prime farmland
- Farmland of statewide importance
- Farmland of statewide importance, if irrigated
- Prime farmland if drained
- Prime farmland if irrigated
- Prime farmland if irrigated and reclaimed of excess salts and sodium
- Prime farmland if protected from flooding or not frequently flooded during the growing season
- Not prime farmland
- Not Public Information

Carr. 134 Km 7.7 Bo. Bayaney  
Sect Berrocal  
Hatillo, Puerto Rico 00659

Parcel ID: 102-000-010-35  
Parcel Center:  
66.815747°W 18.343371°N

Data Source: <https://websoilsurvey.nrcs.usda.gov/app/>  
Base Map: ESRI ArcGIS Online,  
accessed June 2023  
Updated: 6/13/2023  
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) – PARTNER

<https://www.hudexchange.info/environmental-review/floodplain-management>

1. Does [24 CFR 55.12\(c\)](#) exempt this project from compliance with HUD’s floodplain management regulations in Part 55?

Yes

Provide the applicable citation at 24 CFR 55.12(c) here. If project is exempt under 55.12(c)(6) or (8), provide supporting documentation.

[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. Continue to the Worksheet Summary.

No → 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).

Does your project occur in a floodplain?

No → Continue to the Worksheet Summary below.

Yes

Select the applicable floodplain using the FEMA map or the best available information:

Floodway → Continue to Question 3, Floodways

Coastal High Hazard Area (V Zone) → Continue to Question 4, Coastal High Hazard Areas

500-year floodplain (B Zone or shaded X Zone) → Continue to Question 5, 500-year Floodplains

100-year floodplain (A Zone) → The 8-Step Process is required. Continue to Question 6, 8-Step Process

3. **Floodways**

Is this a functionally dependent use?

Yes

The 8-Step Process is required. Work with HUD or the RE to assist with the 8-Step Process.  
→ *Continue to Worksheet Summary.*

- No → *Federal assistance may not be used at this location unless an exception in 55.12(c) applies. You must either choose an alternate site or cancel the project.*

**4. Coastal High Hazard Area**

**Is this a critical action such as a hospital, nursing home, fire station, or police station?**

- Yes → *Critical actions are prohibited in coastal high hazard areas unless an exception in 55.12(c) applies. You must either choose an alternate site or cancel the project.*

- No

**Does this action include new construction that is not a functionally dependent use, existing construction (including improvements), or reconstruction following destruction caused by a disaster?**

- Yes, there is new construction of something that is not a functionally dependent use.  
New construction must be designed to FEMA standards for V Zones at 44 CFR 60.3(e) (24 CFR 55.1(c)(3)(i)).

→ *Continue to Question 6, 8-Step Process*

- No, this action concerns only existing construction.

Existing construction must have met FEMA elevation and construction standards for a coastal high hazard area or other standards applicable at the time of construction.

→ *Continue to Question 6, 8-Step Process*

**5. 500-year Floodplain**

**Is this a critical action?**

- No → *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.*

- Yes → *Continue to Question 6, 8-Step Process*

**6. 8-Step Process.**

**Is this 8-Step Process required? Select one of the following options:**

- 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)(1-3).

**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. Continue to Worksheet Summary.*

- 8-Step Process is inapplicable per 55.12(b)(1-4).

**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 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.**

A review of the Advisory Base Flood Elevation (ABFE) map, Community Panel 72000C0580H (effective date 04/19/2005), 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 project is in compliance with Executive Order 11988.



REGROW PROGRAM

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

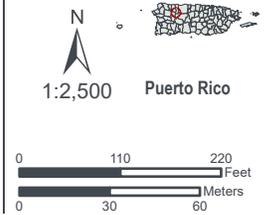
Applicant ID: PR-RGRW-00131



- Site
- Site Parcel
- Project Footprint (Option)
- 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. 134 Km 7.7 Bo. Bayaney Sect  
Berrocal  
Hatillo, Puerto Rico 00659  
Parcel ID: 102-000-010-35  
Parcel Center:  
66.815747°W 18.343371°N

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: ESRI ArcGIS Online, accessed June 2023  
Updated: 6/13/2023  
Layout: ABFE 1Pct  
Aprx: 72428\_ReGrowTier2Maps



**Attachment 11**  
**Historic Preservation Partner Worksheet**  
**and SHPO Consultation**



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

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## 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:**

SHPO, PRDOH, applicant

See SHPO consultation package for more information.

→ *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.

Project location: Carretera 134 Km 7.7 Bo. Bayaney Sect Berrocal, Hatillo, PR 00659

The proposed project involves the installation of a new "Farm in the City" vertical hydroponic greenhouse. To secure the greenhouse, the applicant will create a base and fill the inside with gravel. The greenhouse will be installed on top of the gravel base, which requires minimal ground disturbance. No further anchoring mechanism is anticipated. The container will be connected to existing water and electrical infrastructure. The project area is located at Carretera 134 Km 7.7 Bo. Bayaney Sect Berrocal within the Municipality of Hatillo within the southern section of the 275.91 -acre parcel.

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 location of the greenhouse gravel base 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.

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.

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 is one (1) instance of 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-00131 is located. The size of the proposed project activities is very small (0.007346 and 0.007346 acres) and construction of public roads, residential and industrial buildings and structures, and agricultural infrastructure has impacted the surrounding terrain. Therefore, no impact to cultural properties is anticipated for this reconstruction project.

*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.

The project will involve the installation of a Farm in the City vertical greenery harvest container on undeveloped land and significant ground disturbing activities of previously undisturbed soil. State Historic Preservation Office (SHPO) consultation was performed.

No National Historic Landmark (NHL) are within or near the project area.

A site visit was conducted on 06/09/2023 by an SOI-qualified Archaeologist. Record reviews and research were conducted at the SHPO and the Institute for Puerto Rican Culture (ICP) to determine if any archaeologically sensitive resources could be present within a 0.5-mile radius.

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.

The determination was submitted to SHPO by PRDOH for concurrence on July 21, 2023, and SHPO concurred with the No Historic Properties Affected determination on August 4, 2023. No further evaluation is required. The project is in compliance with the National Historic Preservation Act.

*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

August 4, 2023

**Lauren Bair Poche**

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

SHPO 07-21-23-02 SECTION 106 NHPA EFFECT DETERMINATION SUBMITTAL:  
PR-RGRW-00131- PEKES FARM, LLC – CARRETERA 134 KM 7.7, BARRIO  
BAYANEY, SECTOR BERROCAL, HATILLO, 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



July 21, 2023

Carlos A. Rubio Cancela  
Director Ejecutivo  
Oficina Estatal de Conservación Histórica  
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-RGRW00131 – Pekes Farm LLC – Carretera 134 Km 7.7 Barrio Bayaney Sect Berrocal, Hatillo, 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) and the Home Repair, Reconstruction, or Relocation (R3) Program. 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 Pekes Farm LLC in Bo. Bayaney Sect Berrocal at Carretera 134 Km 7.7 in the municipality of Hatillo. The proposed project involves the installation of a new “Farm in the City” vertical hydroponic greenhouse. The proposed greenhouse is approximately 320 square feet (sq. ft; 40 feet [ft] by 8 ft) with a height of approximately 9.5 ft. To secure the greenhouse, the applicant will create a base (44 ft by 12 ft) using four (4) hardwood posts (4 inch by 4 inch) and fill the inside of the base with gravel. The greenhouse will be installed on top of the gravel base. The greenhouse container weighs approximately nine (9) tons and can withstand winds up to 180 miles (mi) per hour; therefore, no further anchoring mechanism is anticipated. Greenhouse Option 1 is on a gentle slope, so the gravel will also serve to level the site. Greenhouse Option 2 is currently occupied by a traditional hydroponic greenhouse, which will be moved if the site is selected; existing pavement is in place.

Water and electricity connections to the greenhouses will be provided from the applicant’s residence, which is located approximately 106 ft southwest of Greenhouse Option 1 and approximately 37 ft south of Greenhouse Option 2. Water to irrigate the greenhouse will be provided from a water connection at the

residence that is connected to the aqueduct managed by the Autoridad de Acueductos y Alcantarillados (AAA). All irrigation piping and connections to the greenhouse will be aboveground surface lines. The irrigation system is not part of the Intended Use of Grant Funds. For electricity, the applicant will run an aboveground cable from the electrical weather head at the applicant's residence to the greenhouses. Electrical connections are not part of the Intended Use of Grant Funds. The project will have minimal ground disturbance and no vegetation or tree clearing is required for construction.

Based on the submitted documentation, the Program requests a concurrence that a determination 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,

A handwritten signature in cursive script that reads 'Lauren Bair Poche'.

**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> PEKES FARM LLC		
<b>Case ID:</b> PR-RGRW-00131	<b>City:</b> Hatillo	

<b>Project Location:</b> Carretera 134 Km 7.7 Bo. Bayaney Sect Berrocal, Hatillo, PR 00659	
<b>Project Coordinates:</b> Vertical Hydroponic-Greenhouse (Option 1): 18.343283, -66.815846 Vertical Hydroponic-Greenhouse (Option 2): 18.343440, -66.815672	
<b>TPID (Número de Catastro):</b> 102-000-010-35	
<b>Type of Undertaking:</b> <input type="checkbox"/> Substantial Repair/Improvements <input checked="" type="checkbox"/> New Construction	
<b>Construction Date (AH est.):</b> Owner's residence (Photo 5): ca. 1994; Neighbor's residence (photo 6): ca. 1980; corral (photo 7): ca. 2000; neighbor's residence (photo 7 and 8): ca. 1972; family member's residence (photo 7 and 9): ca. 2000; neighbor's residence (photo 10) ca. 1993.	<b>Property Size (acres): 275.91 acres total</b> Vertical Hydroponic-Greenhouse (Option 1): 320 sq. ft. (0.007346 acres) Vertical Hydroponic-Greenhouse (Option 2): 320 sq. ft. (0.007346 acres)

<b>SOI-Qualified Architect/Architectural Historian:</b> Erin Edwards, M.P.S.
<b>Date Reviewed:</b> 7/1/2023
<b>SOI-Qualified Archaeologist:</b> Delise Torres-Ortiz, M.A.
<b>Date Reviewed:</b> 7/3/2023

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 involves the installation of a new "Farm in the City" vertical hydroponic greenhouse. The proposed greenhouse is approximately 320 square feet (sq. ft; 40 feet [ft] by 8 ft) with a height of approximately 9.5 ft. To secure the greenhouse, the applicant will create a base (44 ft by 12 ft) using four (4) hardwood posts (4 inch by 4 inch) and fill the inside of the base with gravel. The greenhouse will be installed on top of the gravel base. The greenhouse container weighs approximately nine (9) tons and can withstand winds up to 180 miles (mi) per hour; therefore, no further anchoring mechanism is anticipated. Greenhouse Option 1 is on a gentle slope, so the gravel will also serve to level the site. Greenhouse Option 2 is currently occupied by a traditional hydroponic greenhouse, which will be moved if the site is selected; existing pavement is in place.

<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> PEKES FARM LLC	
<b>Case ID:</b> PR-RGRW-00131	<b>City:</b> Hatillo

Water and electricity connections to the greenhouses will be provided from the applicant's residence, which is located approximately 106 ft southwest of Greenhouse Option 1 and approximately 37 ft south of Greenhouse Option 2. Water to irrigate the greenhouse will be provided from a water connection at the residence that is connected to the aqueduct managed by the Autoridad de Acueductos y Alcantarillados (AAA). All irrigation piping and connections to the greenhouse will be aboveground surface lines. The irrigation system is not part of the Intended Use of Grant Funds. For electricity, the applicant will run an aboveground cable from the electrical weather head at the applicant's residence to the greenhouses. Electrical connections are not part of the Intended Use of Grant Funds.

The project will have minimal ground disturbance and no vegetation or tree clearing is required for construction. The applicant owns the property; therefore, no acquisition is 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 location of the greenhouse gravel base 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 is one (1) significant cultural property within a half-mile radius of the project location. One (1) archaeological investigation has been conducted within the 0.5 mi review radius with no cultural resources found. One (1) previously recorded archaeological resource (ICP-CAT-HT-3; SHPO# HT-3 or HT0100003) is located within the review radius approximately 0.49 mi west of the proposed project's area of disturbance. This resource consisted of petroglyphs in a cave context with associated ceramics found at the cave entrance and is discussed in further detail in the section below. An additional archaeological resource is located 0.22 mi (0.35 km) outside the review radius, but within 0.5 mi of the parcel's extensive overall

<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> PEKES FARM LLC	
<b>Case ID:</b> PR-RGRW-00131	<b>City:</b> Hatillo

boundaries, approximately 0.72 mi (1.15 km) northwest of the proposed project's area of disturbance. The proposed project is located in a mountainous area including dense vegetation and cleared land at an elevation of 300 ft (91 meters [m]) above mean sea level. Per the USGS/NRCS Web Soil Survey, the project area crosses 3 mapped soil series: ClF2 (Colinas Clay Loam, 40 to 60 percent slopes), SoF (Soller Clay, 20 to 60 percent slopes), and SrF (Soller-Rock outcrop complex, 5 to 60 percent slopes). The project area APE is in the northwest portion of the island. The general project area is located in a rural area of southwest Municipio Hatillo in a broad area of rolling hills predominated by thick vegetation that also includes cleared areas in its north portion. The closest freshwater source is the Rio Camuy, located 0.89 mi (1.43 kilometers [km]) northwest of the proposed project's area of disturbance. The north coast is approximately 10.2 mi (16.3 km) from the project area.

### **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 no Section 106 surveys for architecture performed in the 0.50 mi review area or APE. However, ICP documents show Código ICP-CAT-HT-3; SHPO#HT-3 OR HT0100003 was performed in 1985, with updates done in 1991 and 2015 and was under the direction of the Administración de Terrenos. The survey was named for the nearby "Tres Pueblos Sinkhole" and the findings included pre-Columbian petroglyphs and ceramics. The location of the site is approximately 0.49 miles to the west of the project site, near the Cavernas del Rio Camuy National Park. A second survey in the area was undertaken in 2010 under the direction of Luis Fernandez y Asociados, C.S.P., for improvements to the water system. The findings were negative.

This rural area of Hatillo is mountainous with dense tropical vegetation. The project site is on a 275.91 acre parcel at the backside of a broad ridge, with buildings to the to the north, northwest, west, southwest, and south of the project location. Historic aerials from 1972 (<https://www.historicaerials.com/viewer>) show two buildings on the property (a neighbor's house and a barn), and those buildings are still extant in 2023 per a Google Earth aerial. The neighbor's house is in photograph 8. The barn is in a cluster of trees, northwest of the project site and was not photographed. Additionally, to the northwest of the property are the

<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> PEKES FARM LLC	
<b>Case ID:</b> PR-RGRW-00131	<b>City:</b> Hatillo

Planta Filtros Quebrada AAA, and the Escuela De Apicultura, both of which show on the 1972 aerial, although the buildings were smaller at the time. The Planta Filtros Quebrada underwent an extensive renovation in 2021 ([AAA announces start of filtration plant improvement project in Camuy \(metro.pr\)](#)). The project site holds multiple buildings: the owner's house (Photo 5): ca. 1994; a neighbor's residence (photo 6): ca. 1980; a corral (photo 7): ca. 2000; another neighbor's residence (photo 7 and 8): ca. 1972; a family member's residence (photo 7 and 9): ca. 2000; and a third neighbor's residence (photo 10) ca. 1993. Circa dates are consistent with historic aerials and with the form and construction materials used. As the project site sits on the back side of a heavily vegetated ridge, the housing to the west, southwest, south, and southeast will not see the project area due to dense vegetation and the elevation of the site. The neighbor's houses near the project site, will see the project area, but all these resources were built in an agricultural area that was already established and there is no indication in the research that any of the neighbor's houses are connected with historic events, significant people in the past, or that the construction is the work of a master.

## 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 is one (1) instance of 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-00131 is located. The closest freshwater body is approximately 0.89 mi (1.43 km) of the project area. The size of the proposed project activities is very small (0.007346 and 0.007346 acres) and construction of public roads, residential and industrial buildings and structures, and agricultural infrastructure has impacted the surrounding terrain. Therefore, no impact to cultural properties is anticipated for this reconstruction project.

<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> PEKES FARM LLC		
<b>Case ID:</b> PR-RGRW-00131		<b>City:</b> Hatillo

**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: PEKES FARM LLC

Case ID: PR-RGRW-00131

City: Hatillo

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



REGROW PROGRAM

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

Applicant ID: PR-RGRW-00131



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

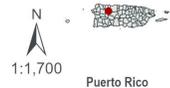
Carr. 134 Km 7.7 Bo. Bayaney  
Sect Berrocal  
Hatillo, Puerto Rico 00659

Parcel ID: 102-000-010-35

Parcel Center:  
66.815747°W 18.343371°N

Base Map: ESRI ArcGIS Online,  
accessed June 2023  
Updated: 6/13/2023

Layout: APE  
Aprx: 72428\_ReGrowTier2Maps



Applicant: PEKES FARM LLC

Case ID: PR-RGRW-00131

City: Hatillo

### Project (Parcel) Location - Aerial Map



REGROW PROGRAM

**Figure A-2:  
Site Vicinity**

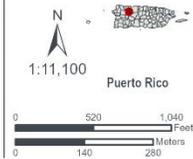
Applicant ID: PR-RGRW-00131

**SWCA**  
ENVIRONMENTAL CONSULTANTS

- Site
- Site Parcel
- Project Footprint (Option)

Carr. 134 Km 7.7 Bo. Bayaney  
Sect. Berrocal  
Hatillo, Puerto Rico 00659  
Parcel ID: 102-000-010-35  
Parcel Center:  
66.813603°W 18.349495°N

Base Map: ESRI ArcGIS Online,  
accessed June 2023  
Updated: 6/13/2023  
Layout: Site Vicinity  
Aprx: 72428\_ReGrowTier2/Maps

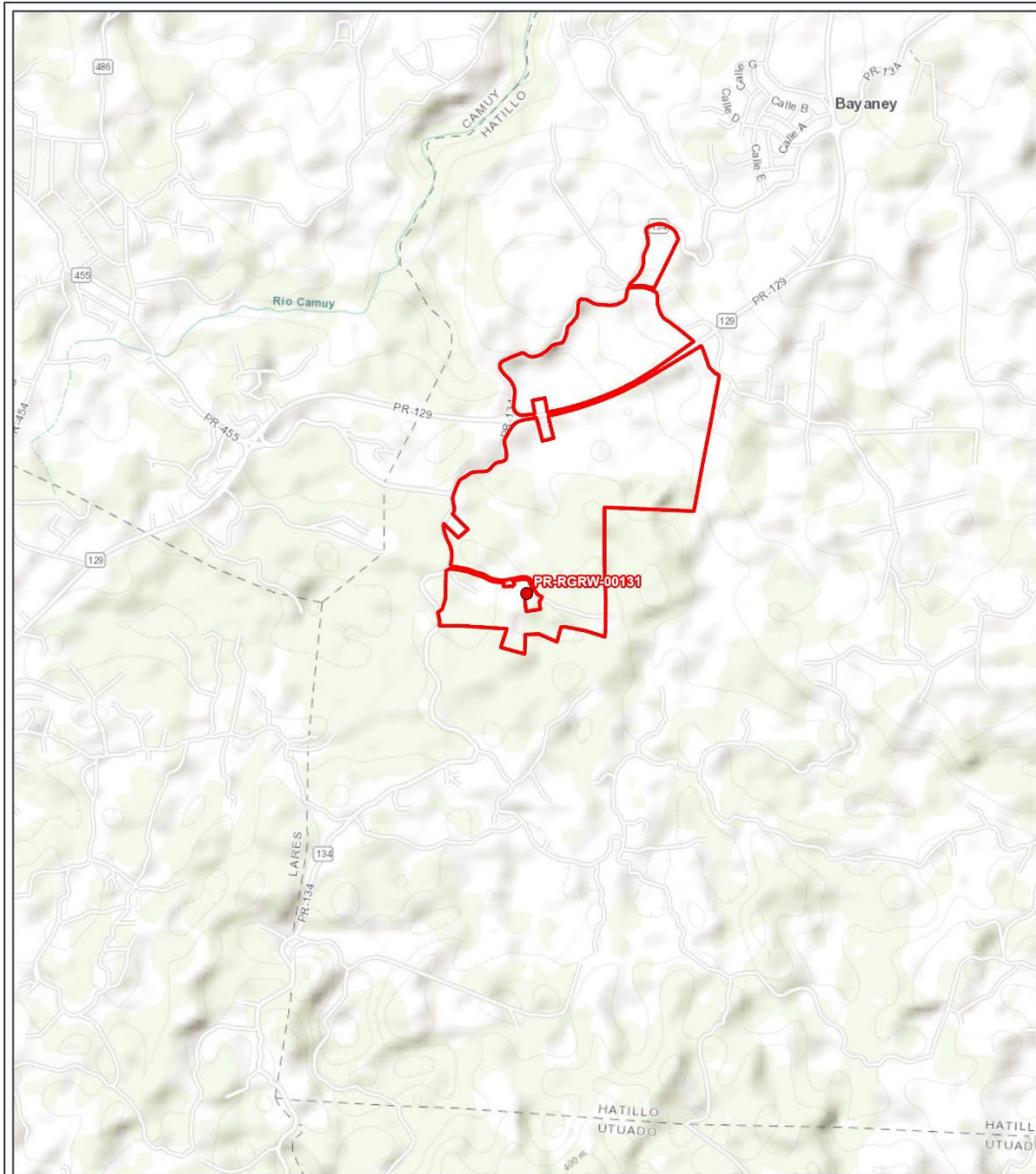


Applicant: PEKES FARM LLC

Case ID: PR-RGRW-00131

City: Hatillo

Project (Parcel) Location - USGS Topographic Map



REGROW PROGRAM

Figure A-1:  
Site Location

Applicant ID: PR-RGRW-00131



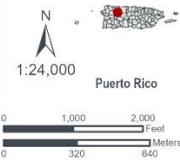
- Site
- ▭ Site Parcel

Carr. 134 Km 7.7 Bo. Bayaney  
Sect Berrocal  
Hatillo, Puerto Rico 00659

Parcel ID: 102-000-010-35  
Parcel Center:  
66.815747°W 18.343371°N

Base Map: ESRI ArcGIS Online,  
accessed June 2023  
Updated: 6/13/2023

Layout: Site Location  
Aprx: 72428\_RoGrowTier2Maps



Applicant: PEKES FARM LLC

Case ID: PR-RGRW-00131

City: Hatillo

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



Mapunit Symbol	Mapunit Name
SoF	Soller clay, 20 to 60 percent slopes
SrF	Soller-Rock outcrop complex, 5 to 60 percent slopes

REGROW PROGRAM

USDA Soils Map

Applicant ID: PR-RGRW-00131



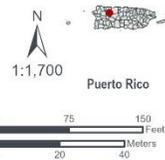
- Site
- ▭ Site Parcel
- ▭ Project Footprint (Option)
- ▭ Soil Mapunit

Carr. 134 Km 7.7 Bo. Bayaney  
Sect Berrocal  
Hatillo, Puerto Rico 00659

Parcel ID: 102-000-010-35

Parcel Center:  
66.815747°W 18.343371°N

Data Source: <https://websoilsurvey.nrcs.usda.gov/app/>  
Base Map: ESRI ArcGIS Online,  
accessed June 2023  
Updated: 6/13/2023  
Layout: Soils  
Aprx: 72428\_RegrowTier2Maps

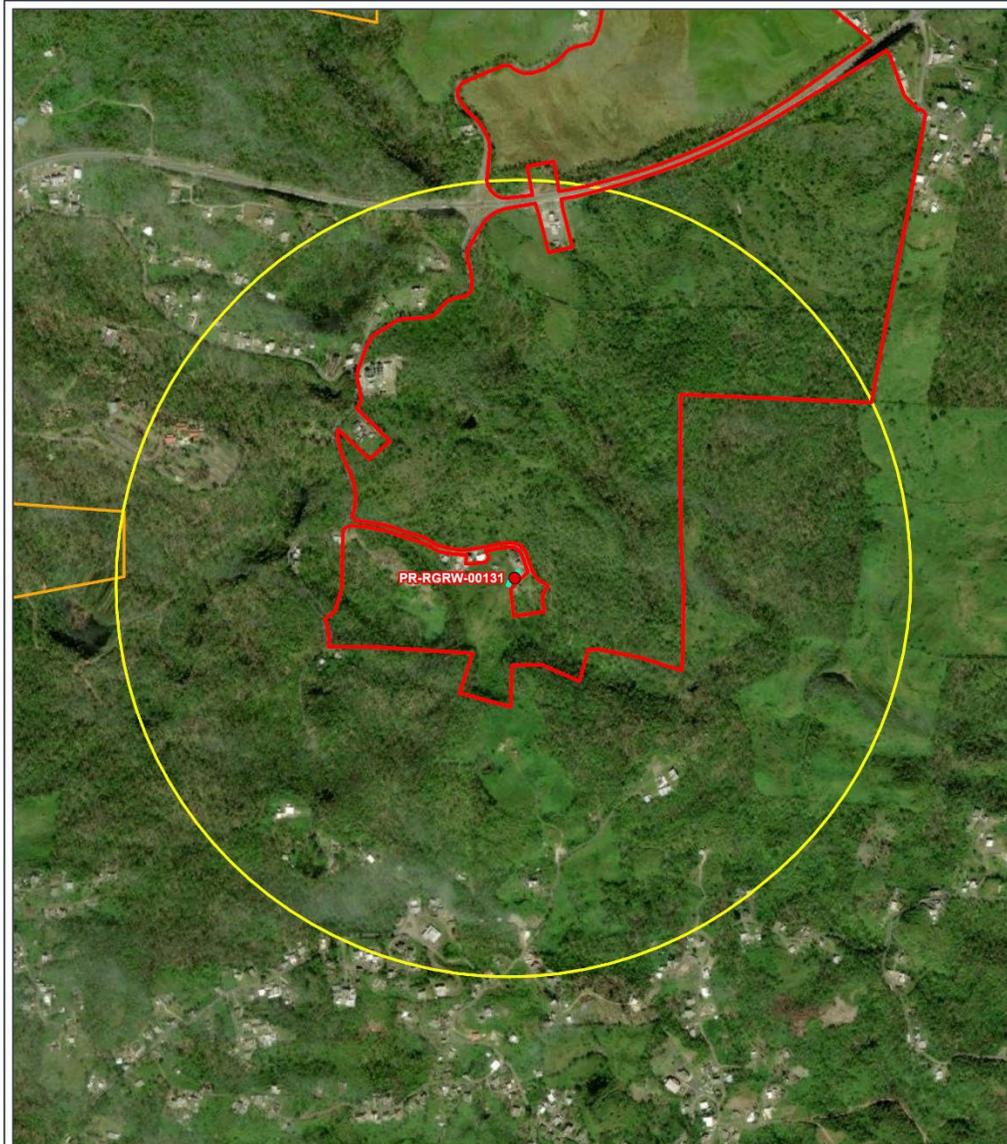


Applicant: PEKES FARM LLC

Case ID: PR-RGRW-00131

City: Hatillo

### Project (Parcel) Location with Previous Investigations - Aerial Map



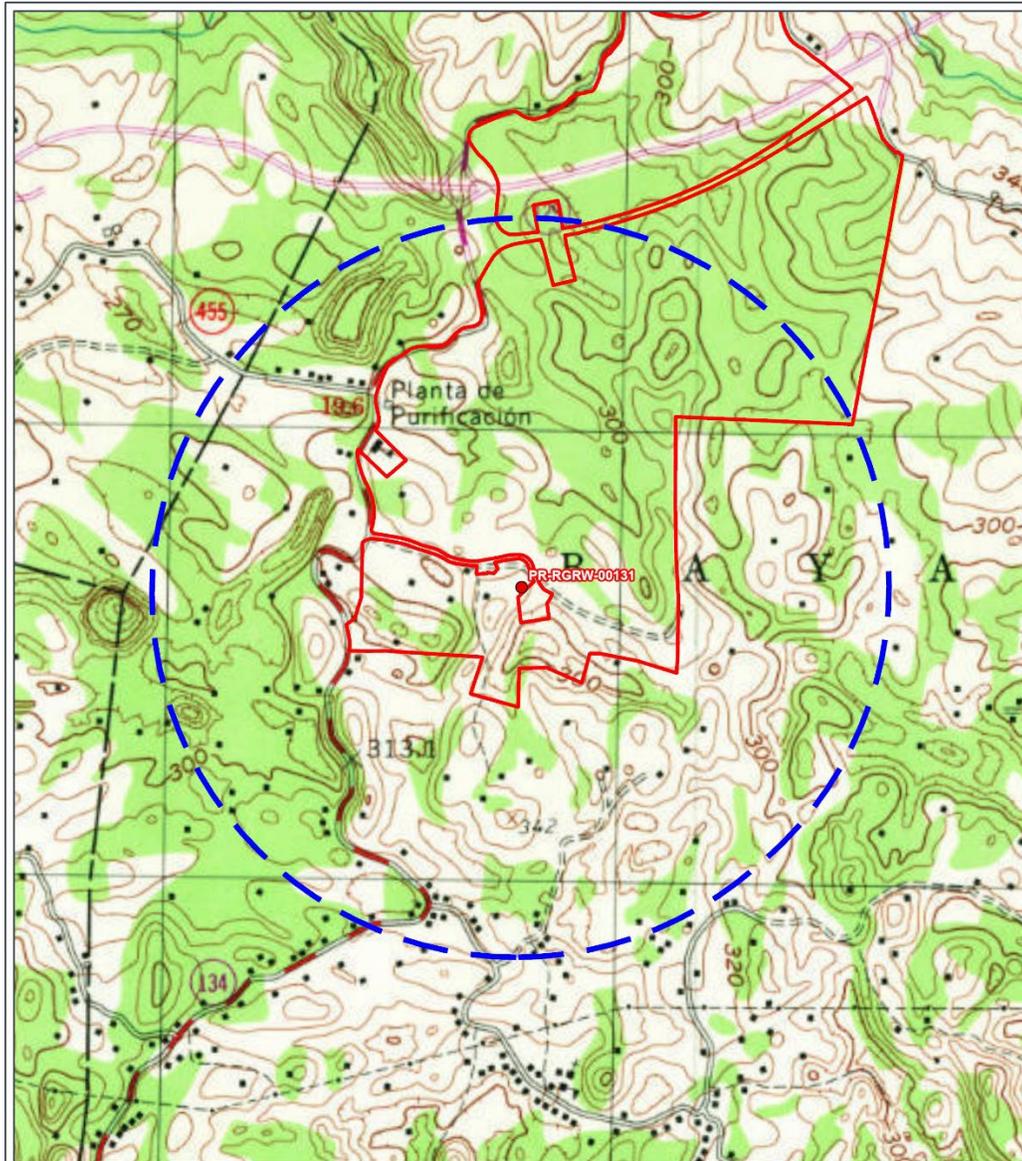
REGROW PROGRAM		● Site	Carr. 134 Km 7.7 Bo. Bayaney Sect Berrocal Hatillo, Puerto Rico 00659	
<b>Previous Investigation Map</b>	■ Site Parcel	■ Project Footprint (Option)	Parcel ID: 102-000-010-35 Parcel Center: 66.815747°W 18.343371°N	
	■ Buffer (0.5-mile)	■ Previously Recorded Survey	Data Source: State Historic Preservation Office and Puerto Rico Institute of Culture	
Applicant ID: PR-RGRW-00131	■ MIPR Arqueologia	■ Traditional Urban Centers	Base Map: ESRI ArcGIS Online, accessed June 2022 Updated: 6/13/2023 Layout: Previous Investigation Apx: 72428_ReGrowTier2Maps	
			 1:11,000  0 520 1,040 Feet 0 140 280 Meters	

Applicant: PEKES FARM LLC

Case ID: PR-RGRW-00131

City: Hatillo

**Project (Parcel) Location with Previously Recorded Cultural Resources  
USGS Topographic Map**



REGROW PROGRAM

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

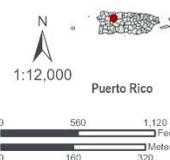
Applicant ID: PR-RGRW-00131



Carr. 134 Km 7.7 Bo. Bayaney  
Sect Berrocal  
Hatillo, Puerto Rico 00659  
Parcel ID: 102-000-010-35  
Parcel Center:  
66.81574°W 18.343371°N

Data Source: State Historic  
Preservation Office and Puerto Rico  
Institute of Culture

Base Map: ESRI ArcGIS Online,  
accessed June 2023  
Updated: 6/13/2023  
Layout: Cultural Resources  
Aprx: 72428\_ReGrowTier2Maps



Applicant: PEKES FARM LLC

Case ID: PR-RGRW-00131

City: Hatillo

### Photograph Key



**Applicant:** PEKES FARM LLC

**Case ID:** PR-RGRW-00131

**City:** Hatillo

<p><b>Photo #:</b> 01</p>	<p><b>Date:</b> 06/09/ 2023</p>	
<p><b>Photo Direction:</b> South</p>		
<p><b>Description:</b> This picture overviews the location for option 1 for a vertical greenhouse (hydroponic) using a freight container 40x8ft, showing the area's vegetation.</p>		
<p><b>Photo #:</b> 02</p>	<p><b>Date:</b> 06/09/ 2023</p>	
<p><b>Photo Direction:</b> Southeast</p>		
<p><b>Description:</b> This picture overviews the location for option 1 for a vertical greenhouse (hydroponic) using a freight container 40x8ft taken from the northwest corner, showing the area's vegetation and a partial view of the roof of structures.</p>		

**Applicant:** PEKES FARM LLC

**Case ID:** PR-RGRW-00131

**City:** Hatillo

<p><b>Photo #:</b> 03</p>	<p><b>Date:</b> 06/09/ 2023</p>	
<p><b>Photo Direction:</b> Northwest</p>		
<p><b>Description:</b> This picture overviews the location for option 2 for a vertical greenhouse (hydroponic) using a freight container 40x8ft taken from the southeast corner, showing a traditional hydroponic which the applicant plans to move if this area is selected, and greenhouse equipment.</p>		
<p><b>Photo #:</b> 04</p>	<p><b>Date:</b> 06/09/ 2023</p>	
<p><b>Photo Direction:</b> Northeast</p>		
<p><b>Description:</b> This picture overviews the location for option 2 for a vertical greenhouse (hydroponic) using a freight container 40x8ft taken from the southwest corner, showing a traditional hydroponic which the applicant plans to move if this area is selected, greenhouse equipment, and a partial view of the applicant's residence.</p>		

**Applicant:** PEKES FARM LLC

**Case ID:** PR-RGRW-00131

**City:** Hatillo

**Photo #:**  
05

**Date:**  
06/09/ 2023

**Photo Direction:**

Southeast

**Description:**

This picture is an overview of the applicant's residence built in 1994, east of Option 1 and north of Option 2.



**Photo #:**  
06

**Date:**  
06/09/ 2023

**Photo Direction:**

West

**Description:**

This picture is an overview of a neighbor's residence, built ca. 1980, north of Option 1 and Option 2.



**Applicant:** PEKES FARM LLC

**Case ID:** PR-RGRW-00131

**City:** Hatillo

**Photo #:**

07

**Date:**

06/09/ 2023

**Photo Direction:**

North

**Description:**

This picture overviews the structures that will have a partial or full view of the vertical greenhouse. The first structure is a corral for the cows (ca. 2000), the second with the cistern on the roof is a neighbor's residence (ca. 1972), and the two-floor structure is a family member's residence (ca. 2000).



**Photo #:**

08

**Date:**

06/09/ 2023

**Photo Direction:**

South

**Description:**

This picture is an overview of a neighbor's residence built ca. 1972, west of Option 1 and Option 2.



**Applicant:** PEKES FARM LLC

**Case ID:** PR-RGRW-00131

**City:** Hatillo

<p><b>Photo #:</b> 09</p>	<p><b>Date:</b> 06/09/ 2023</p>	
<p><b>Photo Direction:</b> South</p>		
<p><b>Description:</b> This picture is an overview of a family member's residence built around the 2000s, north of Option 1 and Option 2.</p>		
<p><b>Photo #:</b> 10</p>	<p><b>Date:</b> 06/09/ 2023</p>	
<p><b>Photo Direction:</b> South</p>		
<p><b>Description:</b> This picture is an overview of a neighbor's residence ca. 1993, south of Option 1 and Option 2.</p>		



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 be 'JB', is written over the typed name.

Juan C. Pérez Bofill, P.E. M.Eng

Director of Disaster Recovery

CDBG DR-MIT

**Attachment 12**  
**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 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. No wetlands were determined to be present on the sites. No further evaluation is required. The project is in compliance with Executive Order 11990.



REGROW PROGRAM

**Figure B 12-1:  
Wetlands Protection  
Map**

Applicant ID: PR-RGRW-00131

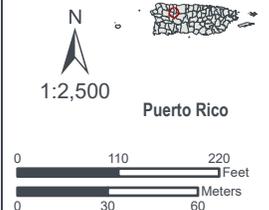


- Site
- Site Parcel
- Project Footprint (Option)
- NHD Stream
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Riverine
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

Carr. 134 Km 7.7 Bo. Bayaney  
Sect Berrocal  
Hatillo, Puerto Rico 00659

Parcel ID: 102-000-010-35  
Parcel Center:  
66.815747°W 18.343371°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: 6/13/2023  
Layout: Wetlands Protection



## **Attachment 13**

# **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:

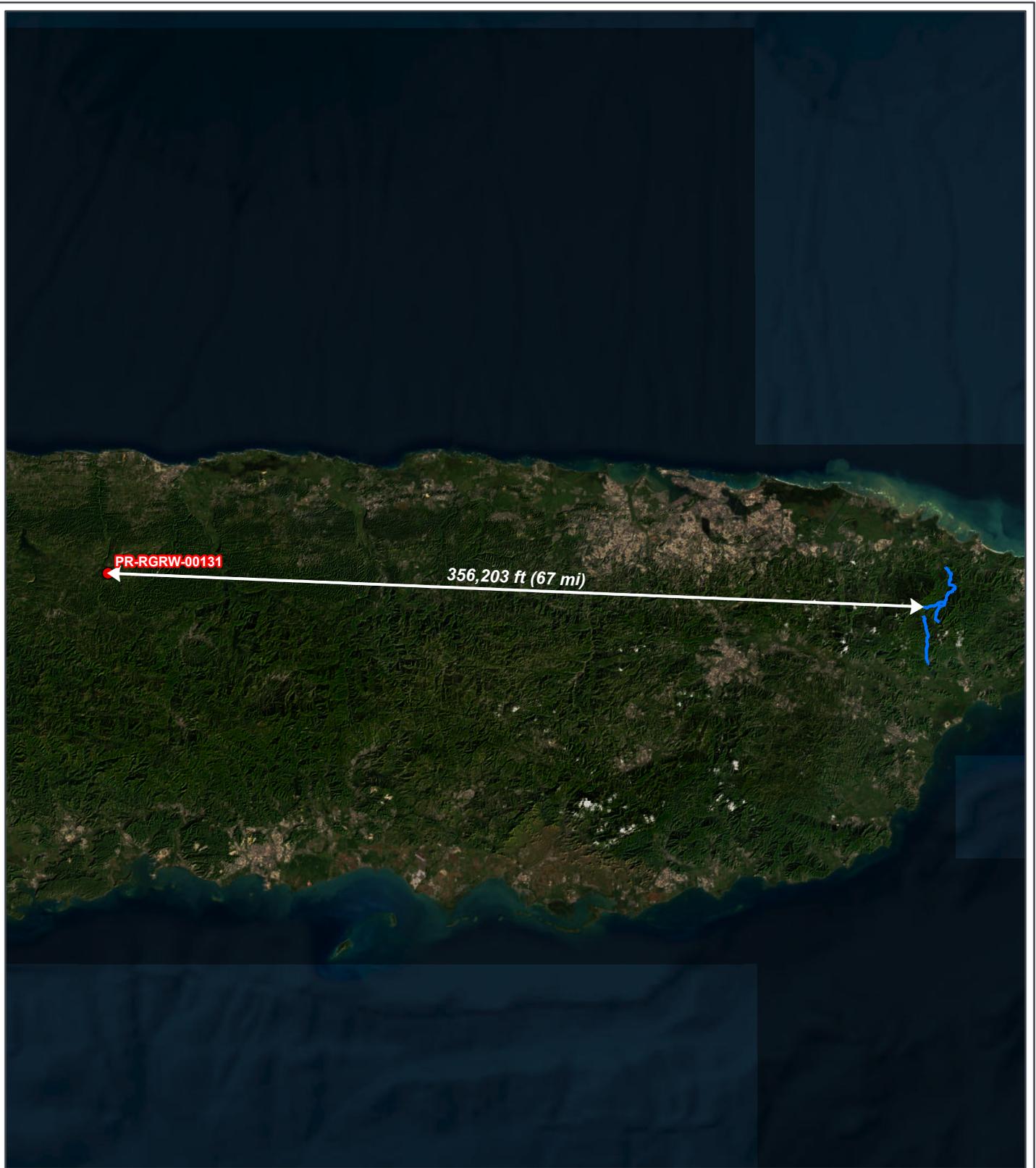
- Map panel numbers and dates
- Names of all consulted parties and relevant consultation dates
- Names of plans or reports and relevant page numbers
- Any additional requirements specific to your region

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 Hatillo Municipio. The closest Wild and Scenic River segment is located 356,203 feet (67 miles) from the project sites. 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 13-1:  
National Wild and  
Scenic River Map**

Applicant ID: PR-RGRW-00131



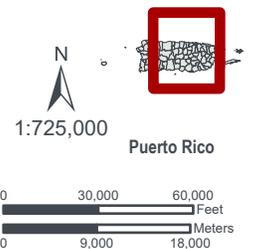
- Site
- National Wild and Scenic River

Carr. 134 Km 7.7 Bo. Bayaney  
Sect Berrocal  
Hatillo, Puerto Rico 00659

Parcel ID: 102-000-010-35  
Parcel Center:  
66.302604°W 18.323524°N

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: 6/13/2023  
Layout: Wild and Scenic Rivers



**Attachment 14**  
**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.

## Hatillo Municipio, PR

1 mile Ring Centered at 18.343349,-66.815940  
 Population: 1,219  
 Area in square miles: 3.14



Jan 16, 2023  
 Search Result (point)  
 1:2,257  
 0 0.03 0.05 0.1 mi  
 0 0.04 0.09 0.17 km  
Esri, Community Maps Contributors, Esri, HERE, Garmin, Mapbox, SwatchMedia, GeoTechnology, Inc., Mapbox, USGS, NPS, US Central Bureau

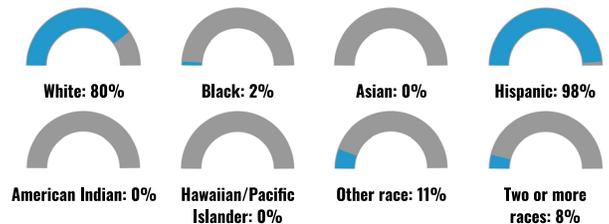
### COMMUNITY INFORMATION



### LANGUAGES SPOKEN AT HOME

LANGUAGE	PERCENT
English	5%
Spanish	95%
Total Non-English	95%

### 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.

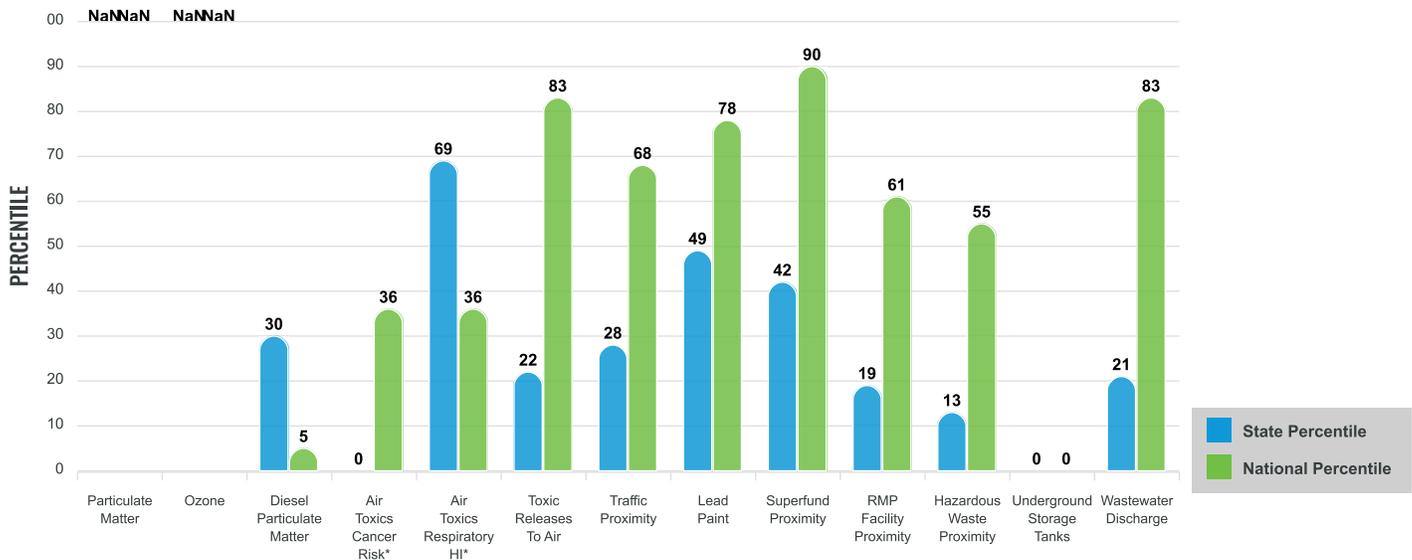
# Environmental Justice & Supplemental Indexes

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.

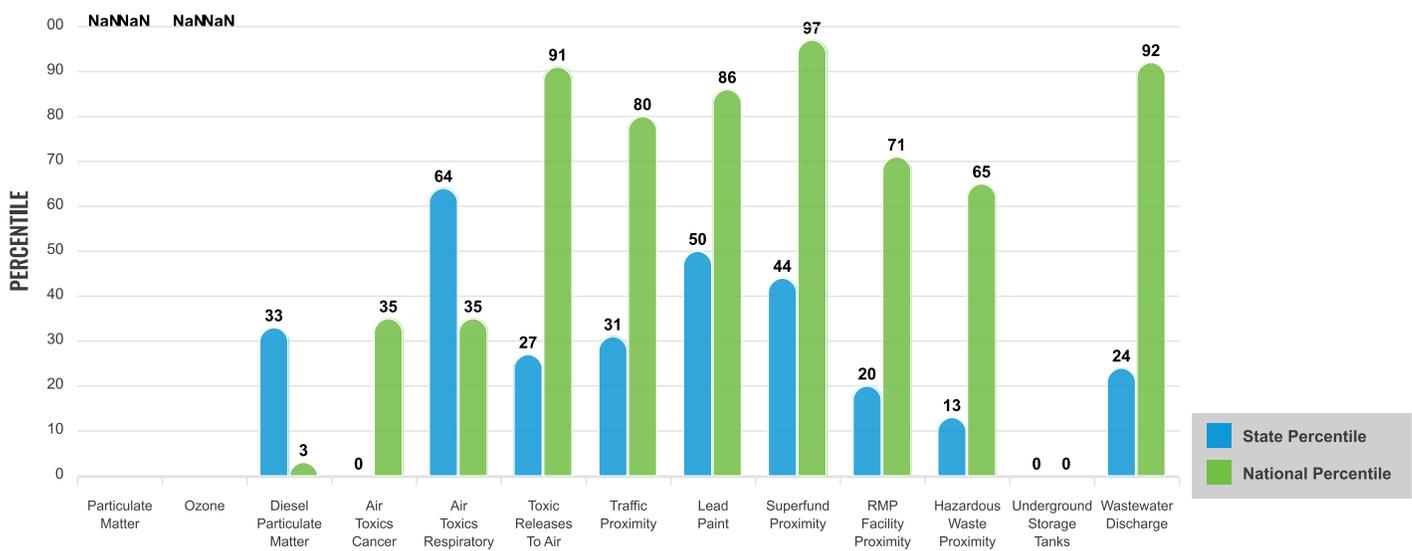
### EJ INDEXES FOR THE SELECTED LOCATION



## 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 18.343349,-66.815940

# 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 ( $\mu\text{g}/\text{m}^3$ )	0.022	0.0667	29	0.261	1
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	290	4,300	20	4,600	37
Traffic Proximity (daily traffic count/distance to road)	25	180	27	210	27
Lead Paint (% Pre-1960 Housing)	0.085	0.16	47	0.3	32
Superfund Proximity (site count/km distance)	0.064	0.15	38	0.13	52
RMP Facility Proximity (facility count/km distance)	0.074	0.47	18	0.43	19
Hazardous Waste Proximity (facility count/km distance)	0.085	0.76	12	1.9	17
Underground Storage Tanks (count/km <sup>2</sup> )	0	1.7	0	3.9	0
Wastewater Discharge (toxicity-weighted concentration/m distance)	0.00036	2.3	20	22	40
<b>SOCIOECONOMIC INDICATORS</b>					
Demographic Index	90%	83%	64	35%	98
Supplemental Demographic Index	48%	43%	59	14%	99
People of Color	100%	96%	31	39%	98
Low Income	81%	70%	62	31%	97
Unemployment Rate	4%	15%	24	6%	51
Limited English Speaking Households	72%	67%	55	5%	99
Less Than High School Education	34%	21%	82	12%	93
Under Age 5	2%	4%	43	6%	24
Over Age 64	21%	22%	49	17%	71
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 .....	1
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 .....	Yes

Report for 1 mile Ring Centered at 18.343349,-66.815940

# 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	16%	21.6%	21	13.4%	71

## 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	36%	32%	62	14%	93
Lack of Health Insurance	5%	7%	40	9%	40
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 18.343349,-66.815940

**Appendix C**  
**Environmental Site Inspection Report**



**ENVIRONMENTAL FIELD ASSESSMENT FORM**  
**ReGrow**

Applicant Name: PEKES FARM LLC	Program ID: PR-RGRW-00131
Project Coordinates: 18.343349, -66.815938	Parcel ID: 102-000-010-35
Parcel Address: Carr. 134 Km 7.7 Bo. Bayaney Sector Berrocal	Municipio: Hatillo
Zip Code: 00659	

Inspector Name: Delise Torres-Ortiz	Inspection Date: June 9 <sup>th</sup> , 2023
-------------------------------------	----------------------------------------------

**General Site Conditions**

Was property accessible by vehicle?	Yes	Comment:
Access issues?	No	Comment:
Are water wells present?	No	Comment:
Are creeks or ponds present?	No	Comment:
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?	No	Comment:
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: Cistern (500-gallon or more); not in use.



**ENVIRONMENTAL FIELD ASSESSMENT FORM**  
**ReGrow**

Are 55-gallon drums present? If Yes, also state condition.	Yes	Comment: They are being used as part of the hydroponic system.
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: Applicant's Residence (1994) Neighbors (Northeast and East, after 1994) Neighbor (West, 2000s)



**ENVIRONMENTAL FIELD ASSESSMENT FORM**  
**ReGrow**

**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:
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I verify that I have physically visited this property and that the findings outlined above are accurate.

*Delise Torres Ortiz*  
{Delise Torres-Ortiz}  
{June 9<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-00131	Photographer: Delise Torres-Ortiz
Location Address: Carr. 134 Km 7.7 Bo. Bayaney Sector Berrocal, Hatillo, PR 00659	Coordinates: 18.343349, -66.815938

<b>Photo #:</b> 01	<b>Date:</b> 06/09/ 2023	
<b>Photo Direction:</b> South		
<b>Description:</b> This picture overviews the location for option 1 for a vertical greenhouse (hydroponic) using a freight container 40x8ft, showing the area's vegetation.		

<b>Photo #:</b> 02	<b>Date:</b> 06/09/ 2023	
<b>Photo Direction:</b> Southeast		
<b>Description:</b> This picture overviews the location for option 1 for a vertical greenhouse (hydroponic) using a freight container 40x8ft taken from the northwest corner, showing the area's vegetation and a partial view of the roof of structures.		

Project #: PR-RGRW-00131	Photographer: Delise Torres-Ortiz
Location Address: Carr. 134 Km 7.7 Bo. Bayaney Sector Berrocal, Hatillo, PR 00659	Coordinates: 18.343349, -66.815938

<b>Photo #:</b> 03	<b>Date:</b> 06/09/ 2023	
<b>Photo Direction:</b> Southwest		
<b>Description:</b> This picture overviews the location for option 1 for a vertical greenhouse (hydroponic) using a freight container 40x8ft taken from the northeast corner, showing the area's vegetation and landscape.		

<b>Photo #:</b> 04	<b>Date:</b> 06/09/ 2023	
<b>Photo Direction:</b> Northwest		
<b>Description:</b> This picture overviews the location for option 1 for a vertical greenhouse (hydroponic) using a freight container 40x8ft taken from the southeast corner, showing the area's vegetation and landscape.		

Project #: PR-RGRW-00131	Photographer: Delise Torres-Ortiz
Location Address: Carr. 134 Km 7.7 Bo. Bayaney Sector Berrocal, Hatillo, PR 00659	Coordinates: 18.343349, -66.815938

<b>Photo #:</b> 05	<b>Date:</b> 06/09/ 2023	
<b>Photo Direction:</b> Northeast		
<b>Description:</b> This picture overviews the location for option 1 for a vertical greenhouse (hydroponic) using a freight container 40x8ft taken from the southwest corner, showing the area's vegetation, a partial view of the neighbor's residence, the applicant's residence, and a traditional hydroponic.		

<b>Photo #:</b> 06	<b>Date:</b> 06/09/ 2023	
<b>Photo Direction:</b> North		
<b>Description:</b> This picture overviews the location for option 1 for a vertical greenhouse (hydroponic) using a freight container 40x8ft taken from the center of the site, showing the area's vegetation, and a partial view of the neighborhood.		

Project #: PR-RGRW-00131	Photographer: Delise Torres-Ortiz
Location Address: Carr. 134 Km 7.7 Bo. Bayaney Sector Berrocal, Hatillo, PR 00659	Coordinates: 18.343349, -66.815938

<b>Photo #:</b> 07	<b>Date:</b> 06/09/ 2023
<b>Photo Direction:</b> East	
<b>Description:</b> This picture overviews the location for option 1 for a vertical greenhouse (hydroponic) using a freight container 40x8ft taken from the center of the site, showing the area's vegetation, a partial view of the traditional hydroponic and equipment, and a partial view of the neighbor's residence and vehicle.	



<b>Photo #:</b> 08	<b>Date:</b> 06/09/ 2023
<b>Photo Direction:</b> South	
<b>Description:</b> This picture overviews the location for option 1 for a vertical greenhouse (hydroponic) using a freight container 40x8ft taken from the center of the site, showing the area's vegetation, and a partial view of the neighbor's residence.	



Project #: PR-RGRW-00131	Photographer: Delise Torres-Ortiz
Location Address: Carr. 134 Km 7.7 Bo. Bayaney Sector Berrocal, Hatillo, PR 00659	Coordinates: 18.343349, -66.815938

<b>Photo #:</b> 09	<b>Date:</b> 06/09/ 2023	
<b>Photo Direction:</b> West		
<b>Description:</b> This picture overviews the location for option 1 for a vertical greenhouse (hydroponic) using a freight container 40x8ft taken from the center of the site, showing the area's vegetation, and landscape.		

<b>Photo #:</b> 10	<b>Date:</b> 06/09/ 2023	
<b>Photo Direction:</b> Southeast		
<b>Description:</b> This picture overviews the location for option 2 for a vertical greenhouse (hydroponic) using a freight container 40x8ft taken from the northwest corner, showing a traditional hydroponic. The applicant plans to move the hydroponic if this area is selected.		

Project #: PR-RGRW-00131	Photographer: Delise Torres-Ortiz
Location Address: Carr. 134 Km 7.7 Bo. Bayaney Sector Berrocal, Hatillo, PR 00659	Coordinates: 18.343349, -66.815938

<b>Photo #:</b> 11	<b>Date:</b> 06/09/ 2023	
<b>Photo Direction:</b> Southwest		
<b>Description:</b> This picture overviews the location for option 2 for a vertical greenhouse (hydroponic) using a freight container 40x8ft taken from the northeast corner, showing a traditional hydroponic which the applicant plans to move if this area is selected.		

<b>Photo #:</b> 12	<b>Date:</b> 06/09/ 2023	
<b>Photo Direction:</b> Northwest		
<b>Description:</b> This picture overviews the location for option 2 for a vertical greenhouse (hydroponic) using a freight container 40x8ft taken from the southeast corner, showing a traditional hydroponic which the applicant plans to move if this area is selected, and greenhouse equipment.		

Project #: PR-RGRW-00131	Photographer: Delise Torres-Ortiz
Location Address: Carr. 134 Km 7.7 Bo. Bayaney Sector Berrocal, Hatillo, PR 00659	Coordinates: 18.343349, -66.815938

<b>Photo #:</b> 13	<b>Date:</b> 06/09/ 2023
<b>Photo Direction:</b> Northeast	
<b>Description:</b> This picture overviews the location for option 2 for a vertical greenhouse (hydroponic) using a freight container 40x8ft taken from the southwest corner, showing a traditional hydroponic which the applicant plans to move if this area is selected, greenhouse equipment, and a partial view of the applicant's residence.	



Project #: PR-RGRW-00131	Photographer: Delise Torres-Ortiz
Location Address: Carr. 134 Km 7.7 Bo. Bayaney Sector Berrocal, Hatillo, PR 00659	Coordinates: 18.343349, -66.815938

<b>Photo #:</b> 14	<b>Photo Direction:</b> Southeast
<b>Date:</b> 06/09/ 2023	

**Description:**

This picture overviews the area where the applicant plans to take water for the irrigation system for the vertical greenhouse 40x8ft. The water will come from the applicant's residence which uses potable water from the AAA or commonly known as the Aqueduct. The applicant plans to do an extension using PVC pipes from the pump at the side of the structure, towards the back following the fence and back to the site location. The system will be above ground to be sure there are no leaks or to detect them if they occur. This will be funded by the applicant.



Project #: PR-RGRW-00131	Photographer: Delise Torres-Ortiz
Location Address: Carr. 134 Km 7.7 Bo. Bayaney Sector Berrocal, Hatillo, PR 00659	Coordinates: 18.343349, -66.815938

<b>Photo #:</b> 15	<b>Photo Direction:</b> Northeast
<b>Date:</b> 06/09/ 2023	

**Description:**

This picture overviews the area where the applicant plans to bring the electricity from to the vertical greenhouse 40x8ft. The electricity will be connected as a standard single phase (120/240 volts 100 amp) using the weather or service head and bringing a service line to the freight container. All these connections will be above ground, and an expert will be the one doing the connections funded by the applicant.



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<b>Photo #:</b> 16	<b>Date:</b> 06/09/ 2023	
<b>Photo Direction:</b> Southwest		
<b>Description:</b> This picture overviews a concrete cistern or "aljibe" in the property leased by the applicant; currently is not in use.		

<b>Photo #:</b> 17	<b>Date:</b> 06/09/ 2023	
<b>Photo Direction:</b> Southeast		
<b>Description:</b> This picture is an overview of the applicant's residence built in 1994, east of Option 1 and north of Option 2.		

Project #: PR-RGRW-00131	Photographer: Delise Torres-Ortiz
Location Address: Carr. 134 Km 7.7 Bo. Bayaney Sector Berrocal, Hatillo, PR 00659	Coordinates: 18.343349, -66.815938

<b>Photo #:</b> 18	<b>Date:</b> 06/09/ 2023	
<b>Photo Direction:</b> West		
<b>Description:</b> This picture is an overview of a neighbor's residence built before 1994, north of Option 1 and Option 2.		

<b>Photo #:</b> 19	<b>Date:</b> 06/09/ 2023	
<b>Photo Direction:</b> North		
<b>Description:</b> This picture overviews the structures that will have a partial or full view of the vertical greenhouse. The first structure is a corral for the cows (twenty years ago), the second with the cistern on the roof is a neighbor's residence (before 1994), and the two-floor structure is a family member's residence (around 2000).		

Project #: PR-RGRW-00131	Photographer: Delise Torres-Ortiz
Location Address: Carr. 134 Km 7.7 Bo. Bayaney Sector Berrocal, Hatillo, PR 00659	Coordinates: 18.343349, -66.815938

<b>Photo #:</b> 20	<b>Date:</b> 06/09/ 2023	
<b>Photo Direction:</b> South		
<b>Description:</b> This picture is an overview of a neighbor's residence built before 1994, west of Option 1 and Option 2.		

<b>Photo #:</b> 21	<b>Date:</b> 06/09/ 2023	
<b>Photo Direction:</b> South		
<b>Description:</b> This picture is an overview of a family member's residence built around the 2000s, north of Option 1 and Option 2.		

Project #: PR-RGRW-00131	Photographer: Delise Torres-Ortiz
Location Address: Carr. 134 Km 7.7 Bo. Bayaney Sector Berrocal, Hatillo, PR 00659	Coordinates: 18.343349, -66.815938

<b>Photo #:</b> 22	<b>Date:</b> 06/09/ 2023
<b>Photo Direction:</b> South	
<b>Description:</b> This picture is an overview of a neighbor's residence built before 1994, south of Option 1 and Option 2.	

