

# **Environmental Assessment**

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

### **24 CFR Part 58**

#### **Project Information**

**Project ID:** PR-RGRW-03677

**Project Name:** Caribbean Greenery Farm

**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:** Heath Anderson, 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, which includes Farm in the City, is located on a 259.53-acre parcel (Cadastral Number 075-000-008-45-000) at Carr. 134 KM 30 Bo. Bayaney, Hatillo, PR, 00659 (see **Appendix A, Figure 1-** Site Location and **Figure 2-** Site Vicinity). This property is in a rural area in the central-east portion of Hatillo Municipio. Access to the project areas is

provided via an existing paved road that runs north/south through the central portion of the property.

The applicant has identified 2 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:

- Farm in the City Option 1 (18.377145, -66.781615) is in the eastern portion of the western parcel.
- Underground Electrical Connection Option 1 (18.377087, -66.781542) is in the eastern portion of the western parcel.
- Underground Waterline Option 1 (18.377188, -66.781722) is in the eastern portion of the western parcel.
- Farm in the City Option 2 (18.377445, -66.781828) is in the eastern portion of the western parcel.
- Underground Electrical Connect Option 2 (18.37724, -66.781656) is in the eastern portion of the western parcel.
- Underground Waterline Option 2 (18.377336, -66.781818) is in the eastern portion of the western parcel.
- Electrical Meter (18.37706695, -66.78151234) is in the eastern portion of the western parcel.
- Water source (18.37725167, -66.78182557) is in the eastern portion of the western parcel.

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

The proposed project includes the purchase and installation of a new Farm in the City and will include water and electrical connections. The new Farm in the City container, located on the western half of the parcel, is 320 square feet (sq ft) in size (40 feet [ft] by 8 ft) with a total height of approximately 9.5 ft. The structure will be built on 6 round concrete block anchors each 9 sq ft (3 ft by 3 ft) and 3 ft in height extending 2 ft deep. With applicable permits and coordination with both Luma and PREPA, electrical and water connections will be made.

The electrical connections will require a new electrical meter (18.37706695, -66.78151234) which will be approximately 10 ft in height and 22 in wide with a maximum depth of 2 ft. Underground electrical lines will run from the new electrical meter to Farm in the City Option 1 with 25 ft or Option 2 with 160 ft.

The underground water connections will attach to the existing water source (18.37725167, -66.78182557) and will require 85 ft for Option 1 or 62 ft for Option 2. The underground water connections will be a maximum of 1 ft deep.

There are 2 location options for the new Farm in the City, and both are located along the eastern boundary of the western half of the split parcel.

Option 1 is 28 ft west of the road near the entrance to the property and would require the removal of a maximum of 10 palm trees and some vegetation; however, the area is level and would not require grading.

Option 2 is 95 ft northwest of Option 1, directly west of the existing house and is an undeveloped location consisting of maintained grass and no other vegetation or trees. This location is also level and would not require grading.

The applicant currently rents the property, and it is an established agricultural business; therefore, land use will not change.

**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 María, 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 Community Development Block Grant – Disaster Recovery (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 Farm in the City will help increase the agricultural production. The project as a whole will support continued local agricultural production during future disasters.

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

**Existing Conditions and Trends**

The general topography of the property is gentle vegetated slopes, cleared and graded areas with structures, dirt trail roads, and heavily vegetated areas. The property land use is classified as Rural Land Specially Protected – Agricultural (SREP-A). The property is currently used for agricultural purposes, which is consistent with current land use. All project components are in the central portion of the property. The applicant's residence is also located in the central portion of the project site near the project parcel's central-east boundary. The property is surrounded by low density development to the south and undeveloped land to the north.

**Funding Information**

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

**Estimated Total HUD Funded Amount:** \$100,000

**Additional, non-HUD funding:** \$50,000

**Estimated Total Project Cost** (HUD and non-HUD funds) [24 CFR 58.32(d)]: \$150,000

**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:<br>Statutes, Executive Orders,<br>and Regulations listed at 24<br>CFR §58.5 and §58.6 | Are formal<br>compliance<br>steps or<br>mitigation<br>required?           | Compliance Determinations  |
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| <b>STATUTES, EXECUTIVE ORDERS, AND REGULATIONS LISTED AT 24 CFR 58.6</b>                                  |   |  |
| <b>Airport Hazards</b><br><br>24 CFR Part 51 Subpart D  | Yes    No<br><input type="checkbox"/> <input checked="" type="checkbox"/> | The project site is not within 2,500 ft of a civil primary or commercial service airport or within 15,000 ft of a military airport. The nearest civil primary or commercial service airport, Rafael Hernandez, is located 123,180 ft (23 |

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|  |   | <p>miles [mi]) from the project site. The nearest military airport, Luis Munoz Marin International Airport, is located 266,355 ft (50 mi) from the project site. No further evaluation is required. The project is in compliance with airport hazards requirements.</p> <p>The Airport Hazards Partner Worksheet and Airport Hazards Map (<b>Figure B 1-1</b>) are provided in <b>Appendix B, Attachment 1</b>.</p>   |
| <p><b>Coastal Barrier Resources</b></p> <p>Coastal Barrier Resources Act, as amended by the Coastal Barrier Improvement Act of 1990 [16 USC 3501]</p>          | <p>Yes    No</p> <p><input type="checkbox"/>    <input checked="" type="checkbox"/></p> | <p>The project site is not located in a Coastal Barrier Resource Systems Unit (CBRS) or Otherwise Protected Area (OPA). The closest CBRS unit, Punta Maracayo, is located 41,122 ft (8 mi) from the project site. No further evaluation is required. The project is in compliance with the Coastal Barrier Resources Act.</p> <p>The Coastal Barrier Resources Act Partner Worksheet and Coastal Barrier Resources Map (<b>Figure B 2-1</b>) are provided in <b>Appendix B, Attachment 2</b>.</p>                                 |
| <p><b>Flood Insurance</b></p> <p>Flood Disaster Protection Act of 1973 and National Flood Insurance Reform Act of 1994 [42 USC 4001-4128 and 42 USC 5154a]</p> | <p>Yes    No</p> <p><input type="checkbox"/>    <input checked="" type="checkbox"/></p> | <p>A review of the FEMA Flood Insurance Rate Map (FIRM), Community Panel 72000C0220H (effective date 4/19/2005), shows the project site is in Flood Zone X, which is not in a Special Flood Hazard Area (SFHA). Flood insurance is not required. No further evaluation is required. The project is in compliance with the Flood Disaster Protection Act and National Flood Insurance Reform Act.</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> |
| <b>STATUTES, EXECUTIVE ORDERS, AND REGULATIONS LISTED AT 24 CFR 58.5</b>   |   |   |
| <p><b>Clean Air</b></p>  | <p>Yes    No</p> <p><input type="checkbox"/>    <input checked="" type="checkbox"/></p> | <p>The project site is in Hatillo Municipio, which is within a U.S. Environmental Protection Agency (USEPA) designated attainment area. Municipios in</p>   |

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| <p>Clean Air Act, as amended, particularly section 176(c) &amp; (d); 40 CFR Parts 6, 51, 93</p>     |   | <p>Nonattainment or Maintenance areas include Arecibo, Bayamon, Catano, Guaynabo, Salinas, San Juan and Toa Baja. Project activities include the installation of the Farm in the City and electrical meter and well water connection. The project is not anticipated to have a negative impact on air quality. Emissions associated with the proposed actions are temporary and limited to the use of small construction equipment and will be well below the Federal General Conformity Rule de minimis thresholds. No further evaluation is required. The project is in compliance with the Clean Air Act.</p> <p>The Air Quality Partner Worksheet, List of Non-Attainment/Maintenance Status Counties in Puerto Rico, and Clean Air Map (<b>Figure B 4-1</b>) are provided in <b>Appendix B, Attachment 4.</b></p> |
| <p><b>Coastal Zone Management</b></p> <p>Coastal Zone Management Act, sections 307(c) &amp; (d)</p> | <p>Yes    No</p> <p><input type="checkbox"/>    <input checked="" type="checkbox"/></p> | <p>The project site is not located within the Puerto Rico Coastal Management Zone. The closest coastal zone area is located 34,514 ft (7 mi) from the project site. No further evaluation is required. The project is in compliance with the Coastal Zone Management Act.</p> <p>The Coastal Zone Management Partner Worksheet and Coastal Zone Map (<b>Figure B 5-1</b>) are provided in <b>Appendix B, Attachment 5.</b></p>   |
| <p><b>Contamination and Toxic Substances</b></p> <p>24 CFR Part 58.5(i)(2)</p>                      | <p>Yes    No</p> <p><input type="checkbox"/>    <input checked="" type="checkbox"/></p> | <p>The project site was evaluated for potential contamination by conducting a field site inspection on January 2, 2024 to identify any onsite hazards including, but not limited to, soil staining, above ground storage tanks, signs of underground storage tanks, odors, hazardous debris etc.</p> <p>The site inspection did not identify any onsite hazards that could not be resolved with mitigation (see Appendix C- Environmental Site Inspection Report).</p>   |

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|   |   | <p>Although the project includes activities that may not be exempt, PRDOH consulted with HUD and both parties determined that the recommended best practices and alternative options for radon testing are unfeasible and impractical (see Radon Agency Correspondence).</p> <p>In addition, a desktop review of USEPA databases, NEPAassist, and other sources was conducted to determine if the project site was located near dump sites, junk yards, landfills, hazardous waste sites, or industrial sites, including USEPA National Priorities List Sites (Superfund sites), CERCLA or state-equivalent sites, RCRA Corrective Action sites with release(s) or suspected release(s) requiring clean-up action and/or further investigation. The parcel has been used for agricultural purposes and there has been no change in land use in the last 20 years. The project is located in a rural area of Hatillo Municipio and will continue to be used for agricultural purpose.</p> <p>The desktop review did not find any of the above-listed toxic, hazardous or radioactive substances in or within 3,000 feet of the project area. The project is in compliance with contamination and toxic substances requirements.</p> <p>The Contamination and Toxics Substances Partner Worksheet and Contamination, Radon Agency Correspondence, 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 checked="" type="checkbox"/>    <input type="checkbox"/></p> | <p>The project involves activities that have the potential to affect protected species or habitats including but not limited to activities such as ground disturbance.</p> <p>Threatened, endangered, and migratory bird species were identified</p>  |

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|  | <p>by reviewing data from the United States Fish and Wildlife Service (USFWS) Information and Planning Consultation (IPaC) Tool. In addition, critical species habitat was reviewed through the USFWS IPaC Critical Habitat Portal.</p> <p>The review identified two federally listed species (Puerto Rican boa [<i>Chilobothrus inornatus</i>] and <i>Cordia bellinis</i>) with the potential to occur within the project area. There is no designated or proposed critical habitat within the project area; the closest final designated critical habitat is located 20,671 ft (4 mi) away.</p> <p>The project activities will result in ground disturbing activities including the installation of the new greenhouse and the removal of palm trees and brush. A qualified biologist reviewed the proposed activity locations and determined that the project will have <i>no effect</i> on the <i>Cordia bellinis</i> or designated critical habitat. Due to the generalist nature of the Puerto Rican boa, forested habitat surrounding the project areas, and dense ground cover present throughout the review area, the Puerto Rican boa may occur within the project area. The applicant will employ the conservation measures outlined in the USFWS 2024 General Project Design Guidelines for the Puerto Rican boa. As such, it is anticipated that the project <i>may affect, but is not likely to adversely affect</i> the Puerto Rican boa.</p> <p>If a Puerto Rican Boa is found in the project action site, work shall cease until the Boa moves off on its own. If the Boa does not move off, the CM 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</p> |
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|  |  | Memorandum with IPaC, Critical Habitat Map ( <b>Figure B 7-1</b> ) are provided in <b>Appendix B, Attachment 7</b> .  |
| <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 the Farm in the City, an electrical meter, electrical connections, and well water connection. 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. Per the USGS/NRCS Web Soil Survey, the project area crosses four mapped soil series: CmF2 (Colinas cobbly clay loam, 20 to 60 percent slopes eroded); MoD2 (Moca clay, 12 to 20 percent slopes, eroded); PhC2 (Perchas clay, 2 to 12 percent slopes, eroded); and PhD2 (Perchas clay, 12 to 20 percent slopes, eroded). Prime Farmlands and 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> |

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| <p><b>Floodplain Management</b></p> <p>Executive Order 11988, particularly section 2(a); 24 CFR Part 55, as amended by Executive Order 13690</p> | <p>Yes    No</p> <p><input type="checkbox"/>    <input checked="" type="checkbox"/></p> | <p>An Advisory Base Flood Elevation (ABFE) map was developed by FEMA for this FIRM, which shows the project sites are in Flood Zone X. The project is not located in the 100-year floodplain or ABFE special flood hazard area; therefore, no further action is required. The project is in compliance with Executive Order 11988, as amended by Executive Order 13690.</p> <p>PFIRMs in Puerto Rico were only developed for certain sections of the municipalities of Carolina, Canovanas, Loiza, San Juan and Trujillo Alto. The proposed project is located in the municipality of Hatillo; therefore, PFIRM information was not available for the area and therefore not considered in the review.</p> <p>HUD implemented new floodplain regulations under 89 FR 30850 effective June 24, 2024 which created the Federal Flood Risk Management Standard (FFRMS). The current project comprises non-critical actions that lie outside the 0.2-percent-annual-chance (500-year flood elevation), which is the approach used for this project to comply with the FFRMS; therefore, mitigation is not required and the project is in compliance with 24 CFR Part 55.</p> <p>The Floodplain Management Partner Worksheet and ABFE Floodplain Map (<b>Figure B 10-1</b>) are provided in <b>Appendix B, Attachment 10</b>.</p> |
| <p><b>Historic Preservation</b></p> <p>National Historic Preservation Act of 1966, particularly sections 106 and 110; 36 CFR Part 800</p>        | <p>Yes    No</p> <p><input type="checkbox"/>    <input checked="" type="checkbox"/></p> | <p>The project will involve new construction of a Farm in the City on an undeveloped property and will include 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>  |

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|   |   | <p>Record reviews and research were conducted at the SHPO and the Instituto de Cultura Puertorriqueña (ICP) to determine if any archaeologically sensitive resources could be present within a 0.5-mi 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-mi radius study area or within the project Area of Potential Effect (APE).</p> <p>The determination was submitted to SHPO by PRDOH for concurrence on April 15, 2024 and SHPO concurred with the No Historic Properties Affected determination on April 29, 2024. 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 the installation of the Farm in the City, an electrical meter, electrical connections, and well water connection. These activities 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. No further evaluation is required. The project is in compliance with the Safe Drinking Water Act.</p> <p>The Sole Source Aquifer Partner Worksheet and Sole Source Aquifer Map (<b>Figure B 12-1</b>) are provided in <b>Appendix B, Attachment 12</b>.</p>   |
| <p><b>Wetlands Protection</b></p>   | <p>Yes    No</p>  | <p>The project site was reviewed for wetlands using the U.S. Fish and Wildlife</p>   |

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| <p>Executive Order 11990, particularly sections 2 and 5</p>   | <p><input type="checkbox"/> <input checked="" type="checkbox"/></p>            | <p>Service (USFWS) Wetland Inventory Mapper and a visual confirmation during the field site inspection. No wetlands were determined to be present within the project boundary or within the project area. 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 13-1</b>) are provided in <b>Appendix B, Attachment 13</b>.</p>  |
| <p><b>Wild and Scenic Rivers</b></p> <p>Wild and Scenic Rivers Act of 1968, particularly section 7(b) and (c)</p> | <p>Yes No<br/><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 345,129 ft (65 mi) from the project site. No further evaluation is required. The project is in compliance with the Wild and Scenic Rivers Act.</p> <p>The Wild and Scenic Rivers Partner Worksheet and Wild and Scenic Rivers Map (<b>Figure B 13-1</b>) are provided in <b>Appendix B, Attachment 14</b>.</p>                                |
| <p><b>ENVIRONMENTAL JUSTICE</b></p>   |  |  |
| <p><b>Environmental Justice</b></p> <p>Executive Order 12898</p>  | <p>Yes No<br/><input type="checkbox"/> <input checked="" type="checkbox"/></p> | <p>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.</p> |

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|  | The Environmental Justice Partner Worksheet and EJSscreen Report are provided in <b>Appendix B, Attachment 15.</b> |
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**Environmental Assessment Factors** [24 CFR 58.40; Ref. 40 CFR 1508.8 & 1508.27] Recorded below is the qualitative and quantitative significance of the effects of the proposal on the character, features and resources of the project area. Each factor has been evaluated and documented, as appropriate and in proportion to its relevance to the proposed action. Verifiable source documentation has been provided and described in support of each determination, as appropriate. Credible, traceable and supportive source documentation for each authority has been provided. Where applicable, the necessary reviews or consultations have been completed and applicable permits of approvals have been obtained or noted. Citations, dates/names/titles of contacts, and page references are clear. Additional documentation is attached, as appropriate. **All conditions, attenuation or mitigation measures have been clearly identified.**

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

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

| Environmental Assessment Factor  | Impact Code | Impact Evaluation   |
|--|-------------|---|
| <b>LAND DEVELOPMENT</b>  |             |   |
| Conformance with Plans / Compatible Land Use and Zoning / Scale and Urban Design | 2           | <p>The project includes the purchase and installation of a Farm in the City. The project site location is classified as Resource Conservation land use. The proposed action is continued agricultural use of property, which is compatible with zoning and existing land use.</p> <p>Construction actions include new construction which increase the current function of the existing land use. There is no change in land use since the land will continue to be used for agriculture purposes. The project site is in a rural area of Hatillo Municipio, and project activities will not contribute to urban sprawl.</p> |

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|   |   | <p>The applicant and/or construction manager is required to obtain any necessary local and territorial building and environmental permits prior to construction activities commencing.</p> <p>Any necessary permits should be obtained by the applicant and/or contractor from the appropriate department prior to construction activities.</p>   |
| Soil Suitability/<br>Slope/ Erosion/<br>Drainage/ Storm<br>Water Runoff | 2 | <p>The project includes the purchase and installation of a Farm in the City. Soil suitability will be assessed prior to construction and will be addressed during local permitting processes. Per the USGS/NRCS Web Soil Survey, the project area crosses four mapped soil series: CmF2 (Colinas cobbly clay loam, 20 to 60 percent slopes eroded); MoD2 (Moca clay, 12 to 20 percent slopes, eroded); PhC2 (Perchas clay, 2 to 12 percent slopes, eroded); and PhD2 (Perchas clay, 12 to 20 percent slopes, eroded). Contractors will be required to use best management practices during construction to control erosion and prevent runoff. The soil is currently being used for agriculture purposes.</p> <p>Landslide data from the U.S. Geological Survey (USGS) indicates less than 25 landslides per square kilometer for the project area (see Appendix A, Figure 4- USGS Landslide Map). Department of Natural and Environmental Resources (DNER) authorization is required for any extraction, removal, excavation, and dredging of the components of the earth's crust.</p> |
| Hazards and<br>Nuisances<br>including Site<br>Safety and Noise          | 2 | <p>The project includes the purchase and installation of a Farm in the City.</p> <p>Contractors will be required to provide health and safety plans and monitoring during construction. Noise levels will temporarily increase during construction which may impact surrounding neighbors; however, program activities are limited to the existing farm property and will not elevate ambient 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>   |

| Environmental Assessment Factor             | Impact Code | Impact Evaluation   |
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| <b>SOCIOECONOMIC</b>                        |             |   |
| Employment and Income Patterns              | 2           | <p>The project includes the purchase and installation of a Farm in the City.</p> <p>The project is not anticipated to have a significant impact on employment and income patterns; however, the project may help restore employment opportunities and income patterns by increasing the amount of produce being sold at markets.</p>  |
| Demographic Character Changes, Displacement | 2           | <p>The project includes the purchase and installation of a Farm in the City.</p> <p>The project is a rural area in Hatillo Municipio and will not alter the demographics or character of the surrounding community. Project activities will not result in any direct or indirect displacement of individuals or families.</p>   |
| Environmental Justice                       | 1           | <p>The project includes the purchase and installation of a Farm in the City.</p> <p>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 will not facilitate development that would negatively affect human health or result in disproportionate adverse environmental impacts to low-income or minority populations (see EJ Screen Report in Attachment 15).</p> |

| Environmental Assessment Factor          | Impact Code | Impact Evaluation   |
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| <b>COMMUNITY FACILITIES AND SERVICES</b> |             |   |
| Educational and Cultural Facilities      | 2           | <p>The proposed project includes the purchase and installation of a Farm in the City 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.</p> |
| Commercial Facilities                    | 2           | <p>The proposed project includes the purchase and installation of a Farm in the City. The proposed project</p>  |

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|  |   | will increase agricultural production, resulting in a net positive impact to the applicant's farm commercial output and a positive benefit to surrounding commercial enterprises who purchase and sell the produce; however, the project will not put undue pressure on commercial facilities.  |
| Health Care and Social Services                    | 2 | The proposed project includes the purchase and installation of a Farm in the City on private land and will not affect access to or capacity of health care and social services.   |
| Solid Waste Disposal / Recycling                   | 2 | The project includes the purchase and installation of a Farm in the City. The proposed project may cause an increase in short-term generation of solid waste during construction. All construction debris will be disposed of at the proper facilities for the debris type (i.e., construction waste). The project will not contribute to long-term needs or changes to solid waste disposal and recycling.   |
| Wastewater / Sanitary Sewers                       | 2 | The purchase and installation of the Farm in the City, an electrical meter, electrical connections, and well water connection is not expected to result in significant changes in wastewater or sanitary sewer generation.<br><br>Sewage will not be generated from the project. No new wastewater or sanitary sewer connections are required for this project.   |
| Water Supply                                       | 2 | The purchase and installation of a Farm in the City is expected to result in minor changes to water supply. The project will utilize an existing community water well; the applicant will obtain any necessary permits required for the new utility connection that will require a 15-foot PVC pipe from the container to the connection point off property. The applicant is required to obtain any authorization and/or permits from LUMA/PREPA for the water connection expansion. |
| Public Safety - Police, Fire and Emergency Medical | 2 | The proposed project includes the purchase and installation of a Farm in the City 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 includes the purchase and installation of a Farm in the City 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 proposed project includes the purchase and installation of a Farm in the City on private land and will have no relation to transportation services. The proposed activities will not result in any changes in transportation and accessibility. |

| Environmental Assessment Factor          | Impact Code | Impact Evaluation   |
|--|-------------|---|
| <b>NATURAL FEATURES</b>                  |             |   |
| Unique Natural Features, Water Resources | 2           | The project includes the purchase and installation of a Farm in the City. 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 includes the purchase and installation of a Farm in the City. The project area has already been previously disturbed for farm operations. Although some vegetation and palm trees will need to be removed along the edges of the structure, the project is not anticipated to negatively impact the surrounding area as the activities are limited to a small area on private land. |

| Environmental Assessment Factor | Impact Code | Impact Evaluation   |
|---------------------------------|-------------|---|
| <b>CLIMATE AND ENERGY</b>       |             |   |
| Climate Change Impacts          | 2           | The project includes the purchase and installation of a Farm in the City.<br><br>The proposed ReGrow program project aims to increase resiliency in the agricultural industry to prepare for future climate related disasters, including drought. The Climate Mapping for Resilience and Adaptation Assessment tool ( <a href="https://resilience.climate.gov/#assessment-tool">https://resilience.climate.gov/#assessment-tool</a> ) provides historical and future climate data for five common climate-related hazards (extreme heat, drought, wildfires, flooding, and coastal inundation). The data model for the census tract that includes |

|                   |   |  |
|-------------------|---|--|
|                   |   | <p>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 Farm in the City construction activities are for individual farm use and will not result in a significant increase in electricity or water draw. The Farm in the City will allow the applicant to control the water to the crops and will reduce the amount needed compared to open air farming which often results in higher evapotranspiration. The equipment that will be used during construction and operation will also be limited to occasional use at this specific land parcel, and therefore will not generate a significant amount of greenhouse gas.</p> |
| Energy Efficiency | 2 | <p>The project will result in minor additional energy consumption as it involves the purchase and installation of a Farm in the City, an electrical meter, electrical connections, and well water connection. The electrical provider is LUMA and the applicant will obtain any necessary permits required for the new utility connections. The applicant is required to obtain any authorization and/or permits from PREPA/LUMA.</p>  |

**Additional Studies Performed:**

No additional studies were performed.

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

Field inspection completed on January 2, 2024 by Armando Ramos, SWCA Environmental Consultants.

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

Department of Natural and Environmental Resources (DNER). 2023. Puerto Rico DNER Species Ranges – under construction. Accessed January 2024. Available at: <https://arcg.is/1S9aju0>.

Federal Aviation Administration (FAA). 2022. National Plan for Integrated Airport Systems 2023-2027. Accessed January 2024. Available at: [National Plan of Integrated Airport Systems \(NPIAS\) 2023-2027, Appendix B: National and State Maps \(faa.gov\)](#).

Federal Emergency Management Agency (FEMA). 2023. FEMA Flood Map Service Center - Map Panel 72000C0220H (effective 4/19/2005). Accessed January 2024. Available at: <https://msc.fema.gov/portal/home>.

Institute of Puerto Rican Culture (ICP). 2024. San Juan, Puerto Rico. Data collection conducted on January 26, 2024.

National Oceanic and Atmospheric Administration (NOAA) Office for Coastal Management. 2024. Puerto Rico Coastal Zone Boundary. Accessed January 2024. Available at: [Puerto Rico Coastal Vulnerability Viewer \(arcgis.com\)](#).

State Historic Preservation Office (SHPO). 2024. San Juan, Puerto Rico. Data collection conducted on January 29, 2024

U.S. Environmental Protection Agency (USEPA). 2022a. Envirofacts Mapper. Air pollution data (ICIS-AIR), Brownfields, Hazardous Waste (RCRAInfo), Superfund National Priorities List (NPL), Toxic Releases Inventory (TRI), and National Pollutants Discharge Elimination Systems (NPDES). Accessed January 2024. Available at: <https://geopub.epa.gov/arcgis/rest/services/EMEF/efpoints/MapServer>.

USEPA. 2022b. Sole Source Aquifer Map. Accessed February 23, 2024. Available at: <https://epa.maps.arcgis.com/apps/webappviewer/index.html?id=9ebb047ba3ec41ada1877155fe31356b>.

USEPA. 2023a. Puerto Rico Nonattainment/Maintenance Status for Each County by Year for All Criteria Pollutants. USEPA Green Book. Accessed January 2024. Available at: [https://www3.epa.gov/airquality/greenbook/anayo\\_pr.html](https://www3.epa.gov/airquality/greenbook/anayo_pr.html).

USEPA. 2023b. EJScreen: Environmental Justice Screening and Mapping Tool. Accessed January 2024. Available at: <https://www.epa.gov/ejscreen/download-ejscreen-data>.

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

USFWS. 2024a. Information for Planning and Consultation (IPaC). Accessed May 9, 2024. Available at: <https://ipac.ecosphere.fws.gov/location/index>.

USFWS. 2024b. Critical Habitat for Threatened & Endangered Species. Accessed January 2024. Available at: <https://fws.maps.arcgis.com/home/webmap/viewer.html?webmap=9d8de5e265ad4fe09893cf75b8dbfb77>.

USFWS. 2023c. National Wetlands Inventory Surface Waters and Wetlands Mapper. Accessed January 2024. Available at: <https://fwsprimary.wim.usgs.gov/wetlands/apps/wetlands-mapper/>.

U.S. Forest Service. 2022. National Wild and Scenic River Segments. Accessed January 2024. Available at: <https://www.rivers.gov/mapping-gis.php>; [Wild & Scenic Rivers | US Forest Service \(usda.gov\)](#).

U.S. Geological Survey (USGS). 2022. Concentration of Landslides caused by Hurricane Maria, Puerto Rico. Accessed January 2024. Available at: [U.S. Landslide Inventory \(arcgis.com\)](https://arcgis.com).

**List of Permits Obtained:**

No permits have been obtained.

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

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

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

The installation of Farm to City at the project site is not anticipated to have a negative impact on environmental resources. None of the environmental assessment factors nor the regulations reviewed in the above checklist resulted in negative environmental impacts. 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]

The applicant could build install the Farm in the City on an off-site property. The environmental impacts of this alternative would be unknown and would potentially require acquisition and an increase to the overall cost of the project. Other locations may require greater environmental impacts such as additional ground disturbance, grading for slopes that are not suitable for installation or additional tree clearing and would result in higher costs to the applicant. Installation on an off-site property would also have a greater financial cost to the applicant as it would require the new purchase or leasing of land.

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

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

**Summary of Findings and Conclusions:**

The proposed project would not result in any adverse impacts to the surrounding natural, historical, and water resources; generate significant air or noise pollution; or promote

environmental or socioeconomic injustices. The proposed project is not located within a coastal zone or near a major water resource.

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

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

| <b>Law, Authority, or Factor</b>  | <b>Mitigation Measure</b>  |
|---|--|
| <p><b>Endangered Species</b><br/>           Endangered Species Act of 1973, particularly section 7; 50 CFR Part 402</p> | <p>If a Puerto Rican Boa (Boa) is found in the project activity site, work shall cease until the Boa moves off site on its own. If the Boa does not move off site, the construction manager shall contact the Puerto Rico DNER to relocate the Boa.</p> <p>The USFWS has developed the following conservation measures for the Boa:</p> <ol style="list-style-type: none"> <li>1. Inform all project personnel about the potential presence of the PR boa in areas where the proposed work will be conducted. A pre-construction meeting should be conducted to inform all project personnel about the need to avoid harming the species as well as penalties for harassing or harming PR boas. An educational poster or sign with photo or illustration of the species should be displayed at the project site.</li> <li>2. Prior to any construction activity, including removal of vegetation and earth movements, the boundaries of the project and areas to be excluded and protected should be clearly marked in the project plan and in the field in order to avoid further habitat degradation into forested and conservation areas.</li> <li>3. Once areas are clearly marked, and prior to the use of heavy machinery and any construction activity (including removal of vegetation and earth movement), a biologist or project personnel with experience on this species should survey the areas to be cleared to verify the presence of any PR boa within the work area.</li> </ol> |

4. If a PR boa is found within any of the working or construction areas, activities should stop at that area and information recorded (see #5). Do not capture the boa. If boas need to be moved out of harm's way, designated personnel shall immediately contact the Puerto Rico Department of Natural and Environmental Resources (PRDNER) Rangers for safe capture and relocation of the animal (PRDNER phone #: (787) 724-5700, (787) 230-5550, (787) 771-1124). If immediate relocation is not an option, project-related activities at that area must stop until the boa moves out of harm's way on its own. Activities at other work sites, where no boas have been found after surveying the area, may continue.

5. For all boa sightings (dead or alive), record the time and date of the sighting and the specific location where it was found. PR boa data should also include a photo of the animal (dead or alive), site GPS coordinates, the time and date, and comments on how the animal was detected and its behavior. Last Revised: January 2024

6. If a PR boa is captured by PRDNER personnel, record the name of that person and information on where the PR boa will be taken. This information should be reported to the Service.

7. Measures should be taken to avoid and minimize PR boa casualties by heavy machinery or motor vehicles being used on site. Any heavy machinery left on site (staging) or near potential PR boa habitat (within 50 meters of potential boa habitat), needs to be thoroughly inspected each morning before work starts to ensure that no boas have sheltered within engine compartments or other areas of the equipment. If PR boas are found within vehicles or equipment, do not capture the animal, and let it move on its own or call PRDNER Rangers for safe capture and relocation of the animal (see #4). If not possible, the animal should be left alone until it leaves the vehicle on its own.

8. PR boas may seek shelter in debris piles. Measures should be taken to avoid and minimize boa casualties associated with sheltering in debris piles as a result of project activities. Debris piles should be placed far away from forested areas. Prior to moving, disposing or shredding, debris piles

|  |  |
|--|--|
|  | <p>should be carefully inspected for the presence of boas. If debris piles will be left on site, we recommend they be placed in areas that will not be disturbed in the future.</p> <p>9. If a dead PR boa is found, immediately cease all work in that area and record the information accordingly (see #5). If the PR boa was accidentally killed as part of the project actions, please include information on what conservation measures had been implemented and what actions will be taken to avoid further killings. A dead boa report should be sent by email (see contacts below) to the Service within 48 hours of the event.</p> <p>10. Projects must comply with all state laws and regulations. Please contact the PRDNER for further guidance.</p> |
| <p><b>Historic Preservation</b><br/>National Historic Preservation Act of 1966, particularly sections 106 and 110; 36 CFR Part 800</p> | <p>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 the existing land use.</p> <p>The applicant and/or construction manager is required to obtain any necessary local and territorial building and environmental permits prior to construction activities commencing.</p>   |
| <p>Soil Suitability/ Slope/ Erosion/ Drainage/ Storm Water Runoff</p>  | <p>Soil suitability will be assessed prior to construction. Contractors will be required to use best management practices during construction.</p>   |
| <p>Vegetation, Wildlife</p>  | <p>DNER authorization is required for tree clearing or pruning. The landowner and/or the contractor will contact the Permit Management Office to determine permits and authorizations required prior to construction.</p>  |
| <p>Hazards and Nuisances including Site Safety and Noise</p>   | <p>Contractors will be required to provide health and safety plans and monitoring during construction.</p>   |

|                                  |  |
|----------------------------------|--|
|                                  | <p>Contractors will be required to comply with the applicable local noise ordinances.</p> <p>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.</p> |
| Solid Waste Disposal / Recycling | All construction debris will be disposed of at the proper facilities for the debris type (i.e. construction waste).  |
| Water Supply and Energy          | The applicant must obtain authorization and/or any permits required by PREPA/LUMA and PRASA for utility connections.   |



**Determination:**

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

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

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

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

Preparer Signature:  Date: 8 October 2024

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

Certifying Officer Signature:  Date: 10/10/2024

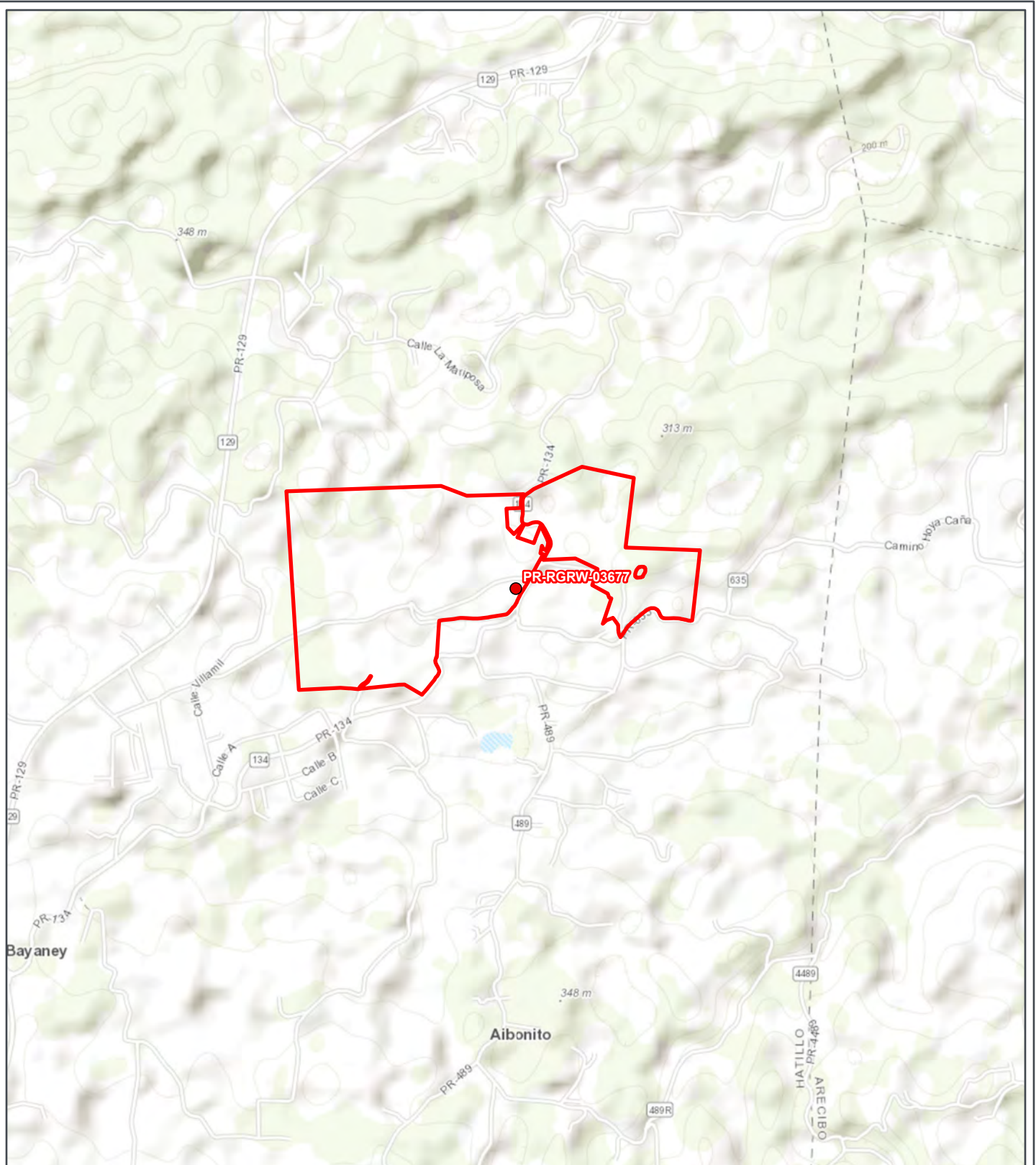
Name/Title: Priscilla M. Toro Rivera/ Environmental Specialist

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

# Appendix A

## Project Overview Figures

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



REGROW PROGRAM

**Figure A-1:  
Site Location**

Applicant ID: PR-RGRW-03677



- Site
- Site Parcel

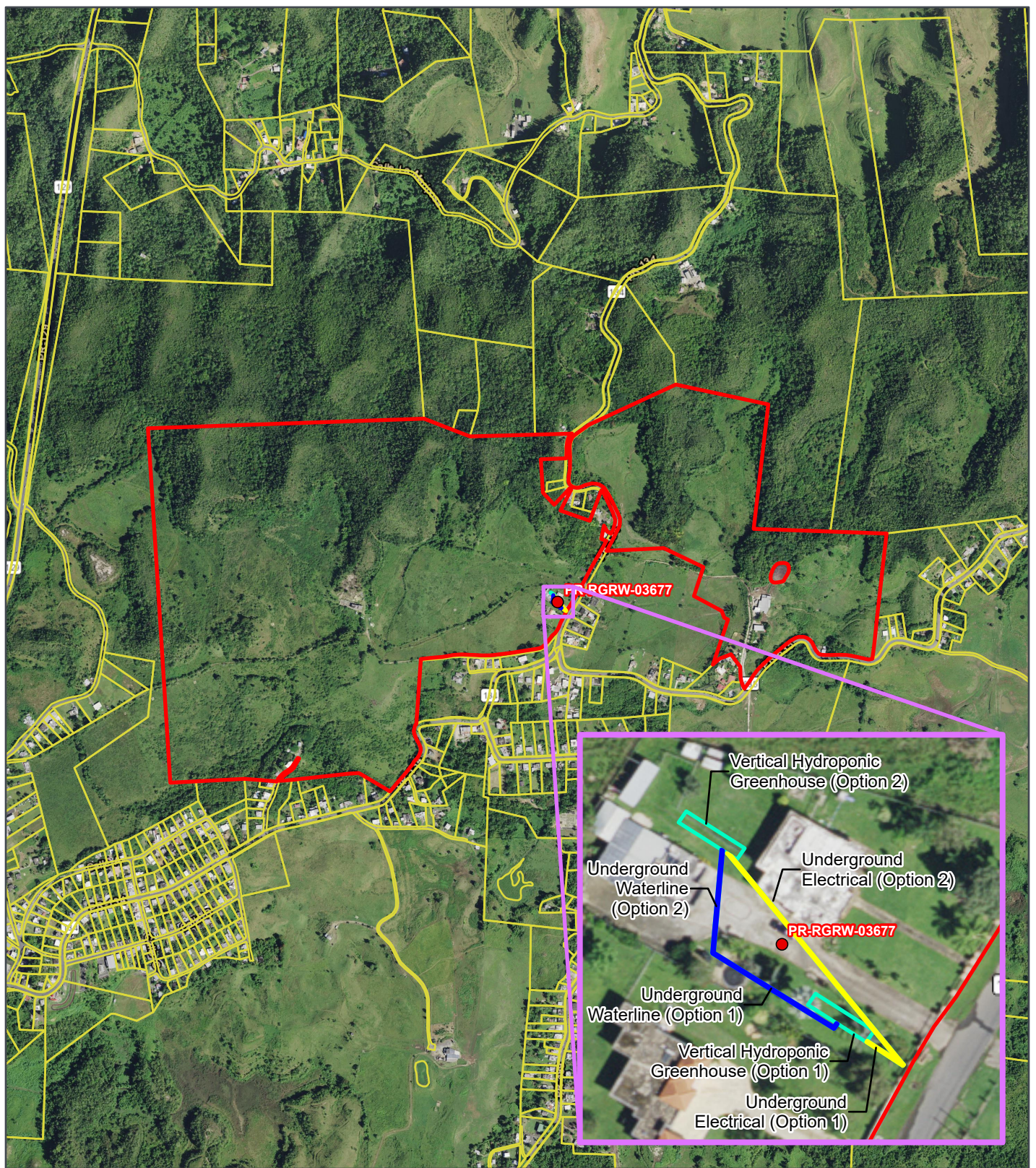
Carr. 134 km 30 Bo Bayaney  
Hatillo, Puerto Rico 00659

Parcel ID: 075-000-008-45-000  
Parcel Center:  
66.781712°W 18.377266°N

Base Map: ESRI ArcGIS Online,  
accessed March 2024  
Updated: 3/28/2024  
Layout: Site Location  
Aprx: 72428\_ReGrowTier2Maps



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



REGROW PROGRAM

**Figure A-2:  
Site Vicinity**

Applicant ID: PR-RGRW-03677



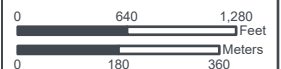
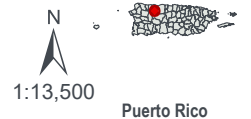
- Site
- ▭ Site Parcel
- ▭ Project Footprint (Option)
- ▭ Underground Electrical Line
- ▭ Underground Waterline

Carr. 134 km 30 Bo Bayaney  
Hatillo, Puerto Rico 00659

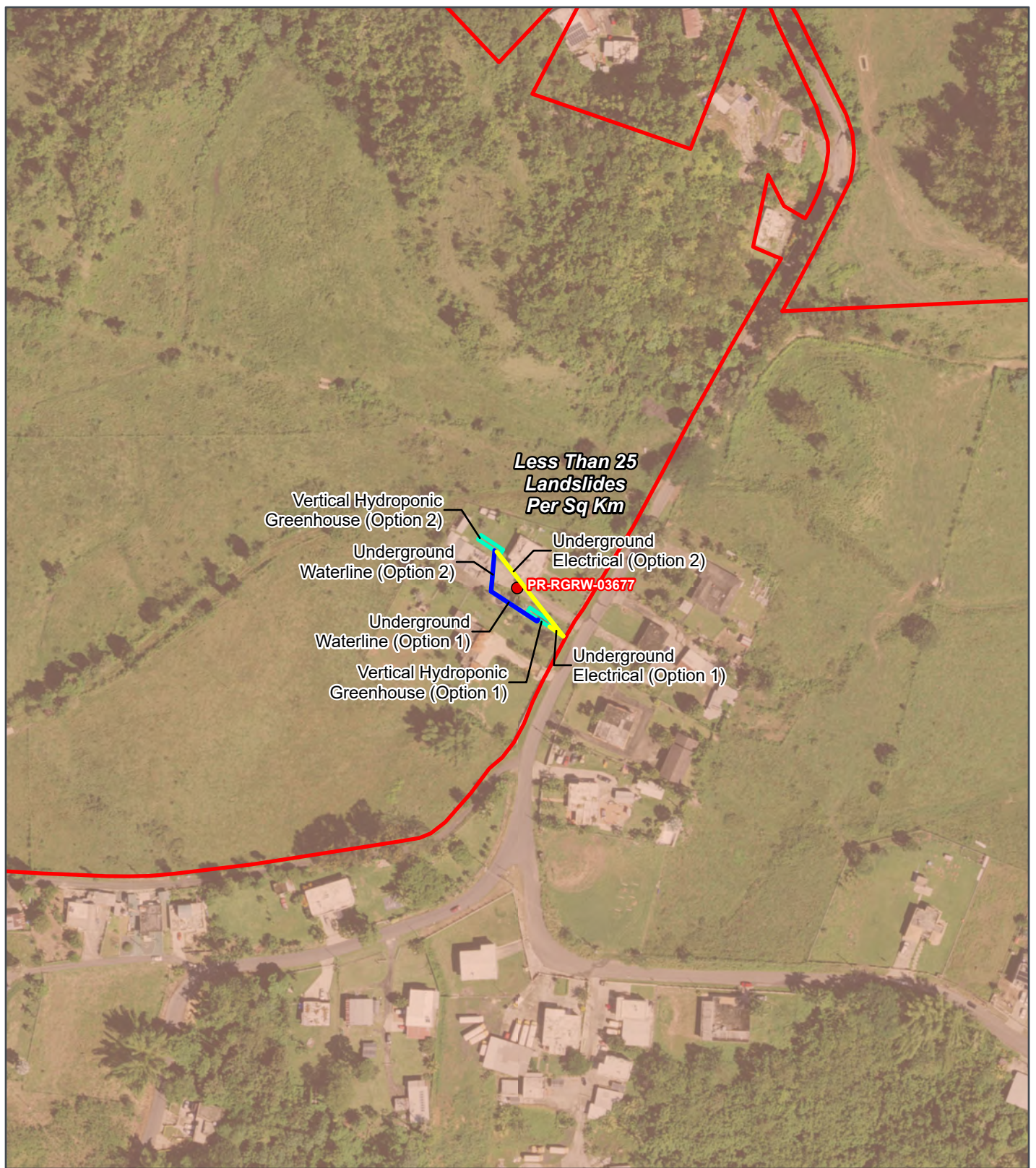
Parcel ID: 075-000-008-45-000  
Parcel Center:  
66.781712°W 18.377266°N

Base Map: USA NAIP Imagery  
Imagery Year: 2022  
Updated: 5/17/2024

Layout: Project Footprint  
Aprx: 72428\_ReGrowTier2Maps2



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



REGROW PROGRAM

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

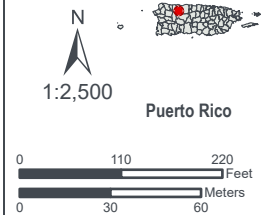
Applicant ID: PR-RGRW-03677



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

Carr. 134 km 30 Bo Bayaney  
Hatillo, Puerto Rico 00659  
Parcel ID: 075-000-008-45-000  
Parcel Center:  
66.781712°W 18.377266°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: USA NAIP Imagery  
Imagery Year: 2022  
Updated: 3/28/2024  
Layout: Landslide





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

**Attachment 1**  
**Airport Hazards Partner Worksheet and**  
**Airport Hazards Map**



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

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

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

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

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

No à *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 à *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 à *Continue to Question 3.*

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

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

à *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.

à *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. à *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.

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

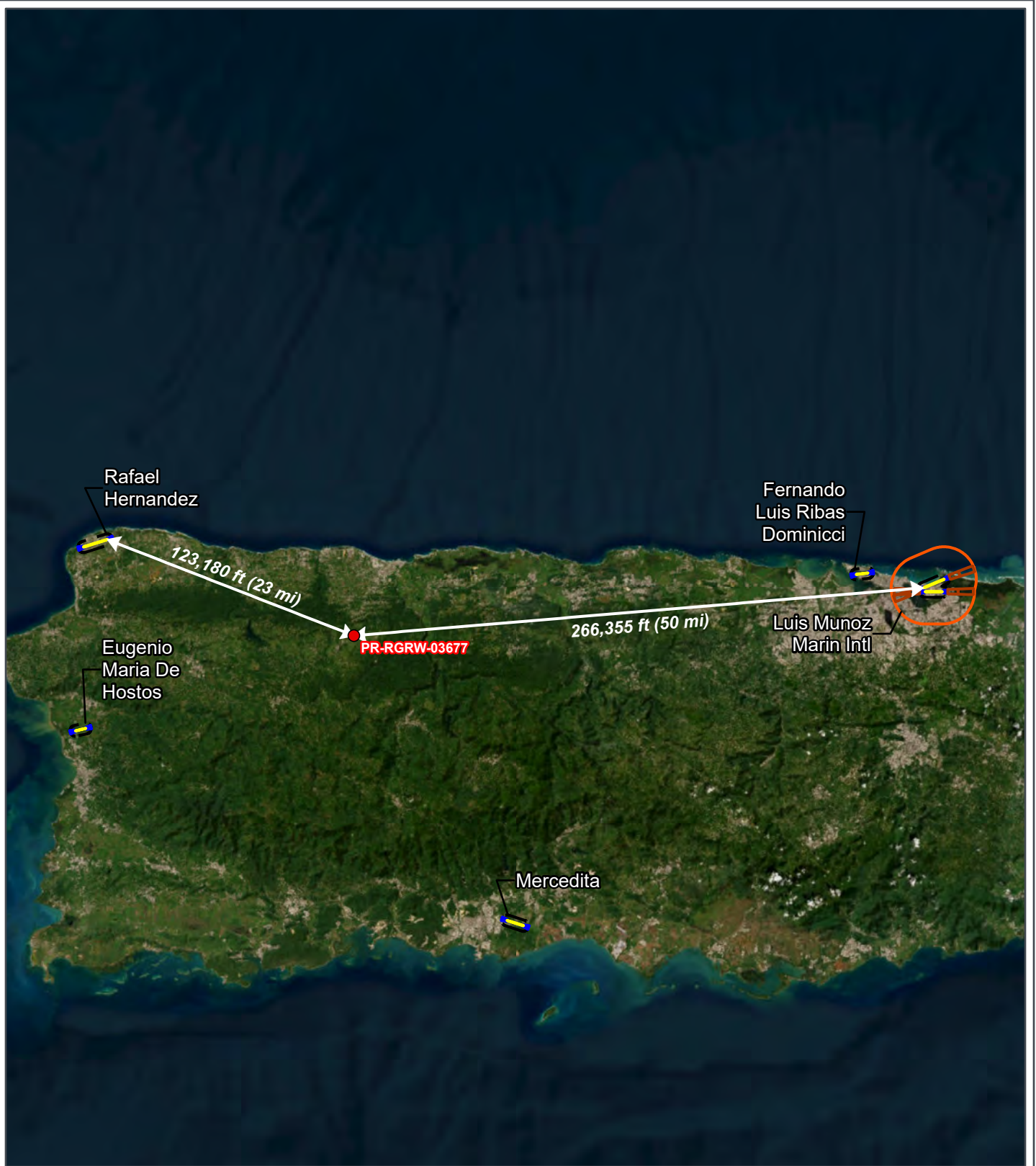
### **Worksheet Summary**

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

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

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

The project site is not within 2,500 ft of a civil primary or commercial service airport or within 15,000 ft of a military airport. The nearest civil primary or commercial service airport, Rafael Hernandez, is located 123,180 ft (23 miles [mi]) from the project site. The nearest military airport, Luis Munoz Marin International Airport, is located 266,355 ft (50 m i) from the project site. No further evaluation is required. The project is in compliance with airport hazards requirements.



REGROW PROGRAM

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

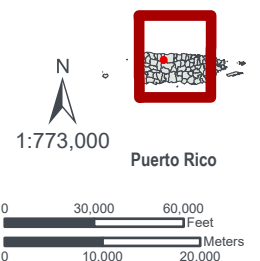
Applicant ID: PR-RGRW-03677



- 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 30 Bo Bayaney  
Hatillo, Puerto Rico 00659  
Parcel ID: 075-000-008-45-000  
Parcel Center:  
66.781712°W 18.377266°N

Data Source: <https://geodata.bts.gov/>  
Base Map: ESRI ArcGIS Online,  
accessed March 2024  
Updated: 3/28/2024  
Layout: Airport Hazards  
Aprx: 72428\_ReGrowTier2Maps



## Attachment 2

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



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

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

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

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

Projects located in the following states must complete this form.

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

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

- No à *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 à *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.**

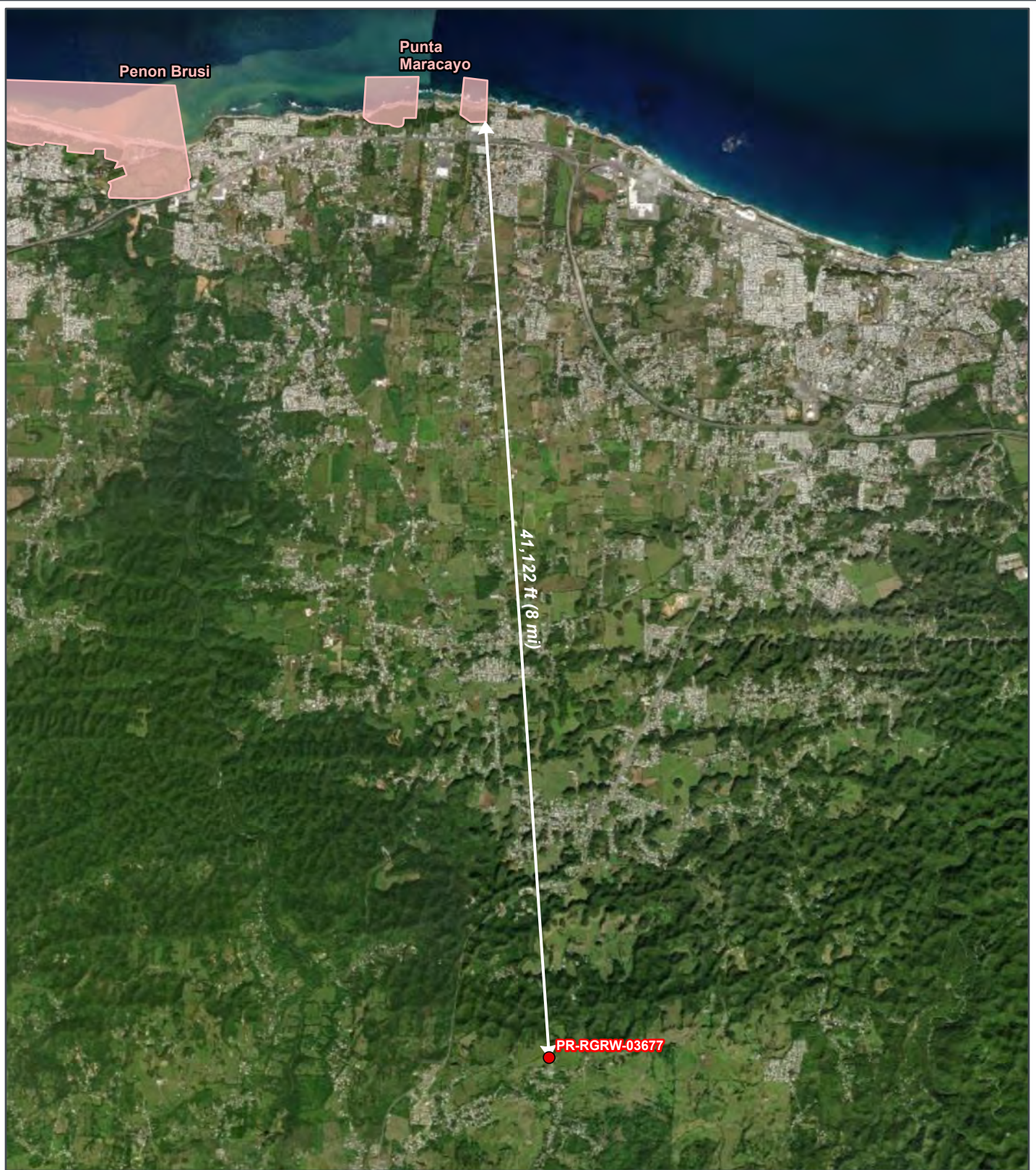


**U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT**  
WASHINGTON, DC 20410-1000

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.

The project site is not located in a Coastal Barrier Resource Systems Unit (CBRS) or Otherwise Protected Area (OPA). The closest CBRS unit, Punta Maracayo, is located 41,122 ft (8 mi) from the project site. No further evaluation is required. The project is in compliance with the Coastal Barrier Resources Act.





REGROW PROGRAM

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

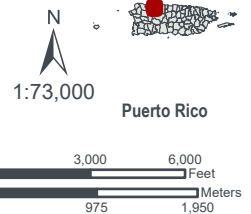
Applicant ID: PR-RGRW-03677



- Site
- Otherwise Protected Area
- System Unit

Carr. 134 km 30 Bo Bayaney  
 Hatillo, Puerto Rico 00659  
 Parcel ID: 075-000-008-45-000  
 Parcel Center:  
 66.781712°W 18.377266°N

Data Source: <https://cbrsgis.wim.usgs.gov/arcgis/rest/services/CoastalBarrierResourcesSystem/MapServer>  
 Base Map: ESRI ArcGIS Online, accessed March 2024  
 Updated: 3/28/2024  
 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.

à Continue to the Worksheet Summary.

Yes à 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 à Continue to the Worksheet Summary.

Yes à 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.

à 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.

à 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.

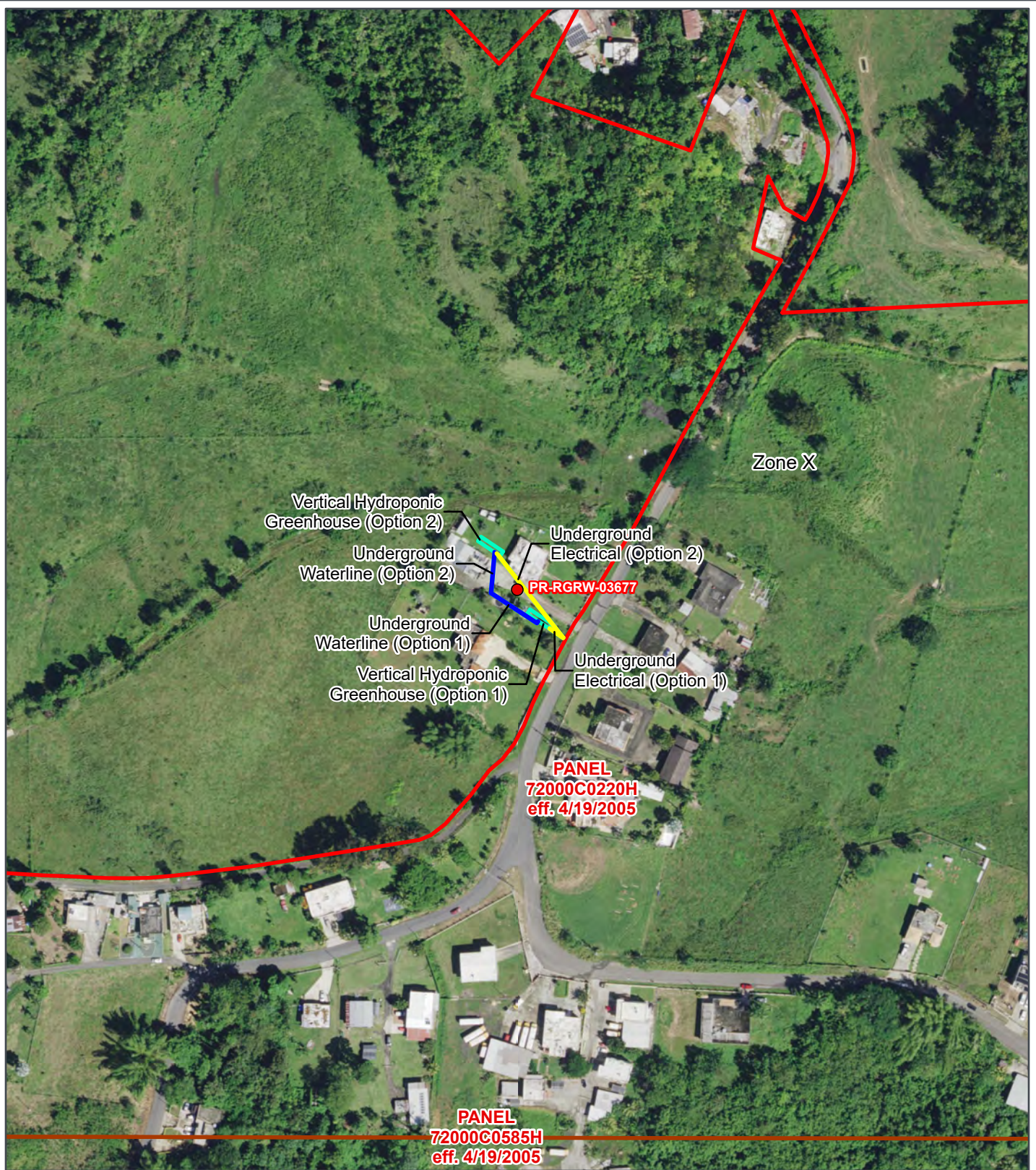
### **Worksheet Summary**

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 72000C0220H (effective date 4/19/2005), shows the project site is in Flood Zone X, which is not in a Special Flood Hazard Area (SFHA). Flood insurance is not required. No further evaluation is required. The project is in compliance with the Flood Disaster Protection Act and National Flood Insurance Reform Act.



REGROW PROGRAM

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

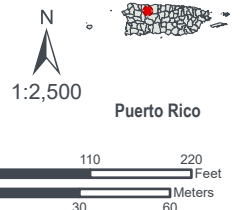
Applicant ID: PR-RGRW-03677



- Site
- Site Parcel
- Project Footprint (Option)
- Underground Waterline
- Underground Electrical Line
- 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 30 Bo Bayaney  
 Hatillo, Puerto Rico 00659  
 Parcel ID: 075-000-008-45-000  
 Parcel Center:  
 66.781712°W 18.377266°N

Data Source: <https://hazards.fema.gov/gis/nfhl/rest/services/public/NFHL/MapServer>  
 Base Map: USA NAIP Imagery  
 Imagery Year: 2022  
 Updated: 3/28/2024  
 Layout: Effective Floodplain  
 Aprx: 72428\_ReGrowTier2Maps



## Attachment 4

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



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

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## Air Quality (CEST and EA) – PARTNER

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

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

Yes → Continue to Question 2.

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

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

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

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

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

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

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

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

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

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

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

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

- 4. For the project to be brought into compliance with this section, all adverse impacts must be mitigated. Explain in detail the exact measures that must be implemented to mitigate for the impact or effect, including the timeline for implementation.**

[Click here to enter text.](#)

### **Worksheet Summary**

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

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

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

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





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

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

Data is current as of January 31, 2024

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          | 1112131415161718192021222324         | //                           |                | Part                 | 32,185            | 72/013                  |
| Bayamon Municipio  | Sulfur Dioxide (2010) | San Juan, PR         | 18192021222324                       | //                           |                | Part                 | 22,921            | 72/021                  |
| Catano Municipio   | Sulfur Dioxide (2010) | San Juan, PR         | 18192021222324                       | //                           |                | 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         | 18192021222324                       | //                           |                | Part                 | 23,802            | 72/061                  |
| Salinas Municipio  | Sulfur Dioxide (2010) | Guayama-Salinas, PR  | 18192021222324                       | //                           |                | Part                 | 23,401            | 72/123                  |
| San Juan Municipio | Sulfur Dioxide (2010) | San Juan, PR         | 18192021222324                       | //                           |                | Part                 | 147,963           | 72/127                  |
| Toa Baja Municipio | Sulfur Dioxide (2010) | San Juan, PR         | 18192021222324                       | //                           |                | Part                 | 52,441            | 72/137                  |

Important Notes

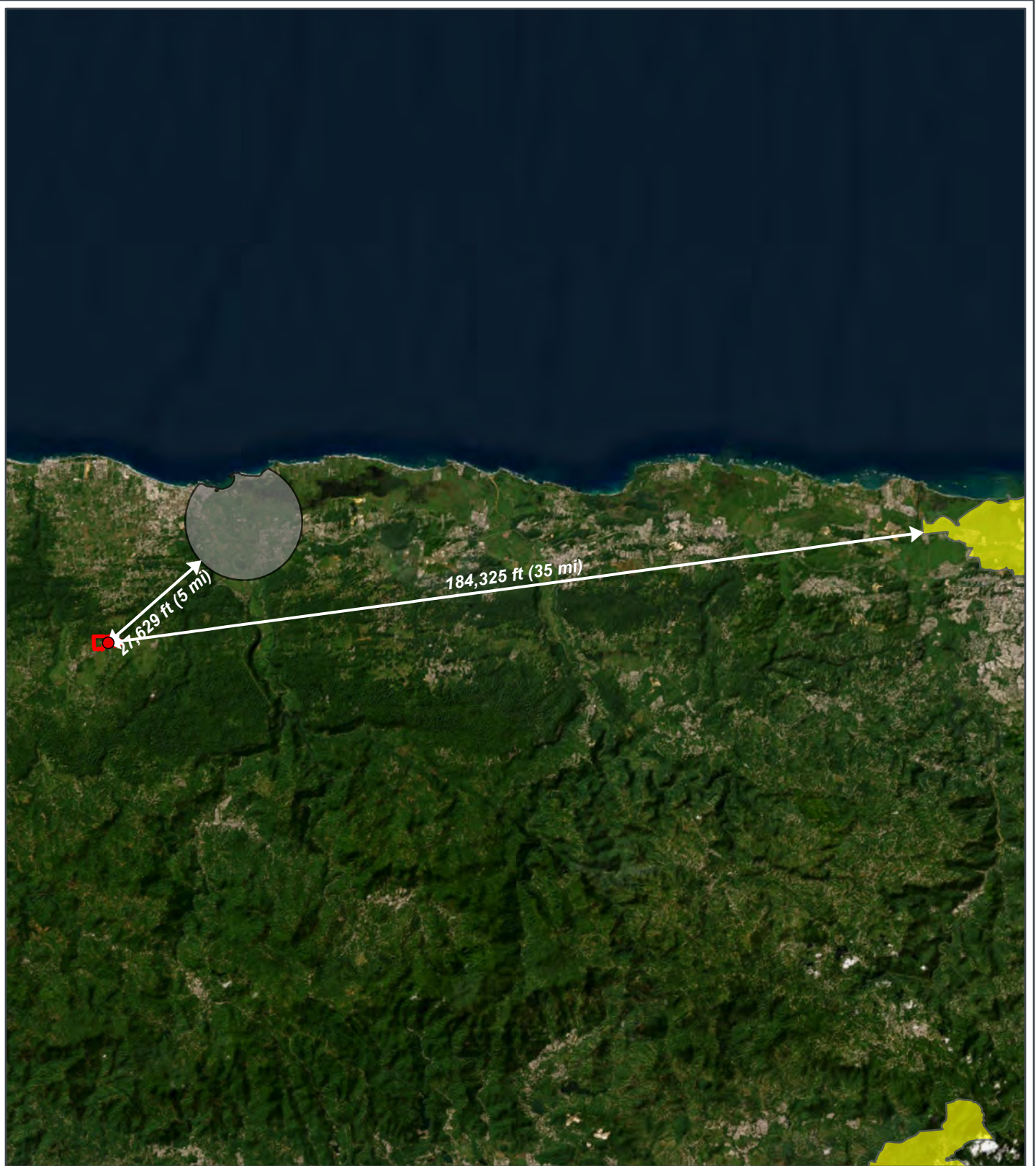
Discover.

Connect.

Ask.

Follow.

2024-01-31



REGROW PROGRAM

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

Applicant ID: PR-RGRW-03677

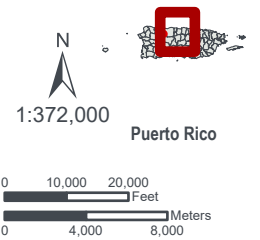


- Site
- 8-Hour Ozone (2015 Standard)\*
- Lead (2008 Standard)
- PM-2.5 (2012 Standard)\*
- Sulfur Dioxide (2010 Standard)

\*No Data in Puerto Rico

Carr. 134 km 30 Bo Bayaney  
Hatillo, Puerto Rico 00659  
Parcel ID: 075-000-008-45-000  
Parcel Center:  
66.781712°W 18.377266°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 March 2024  
Updated: 3/28/2024  
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<br>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<br>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.

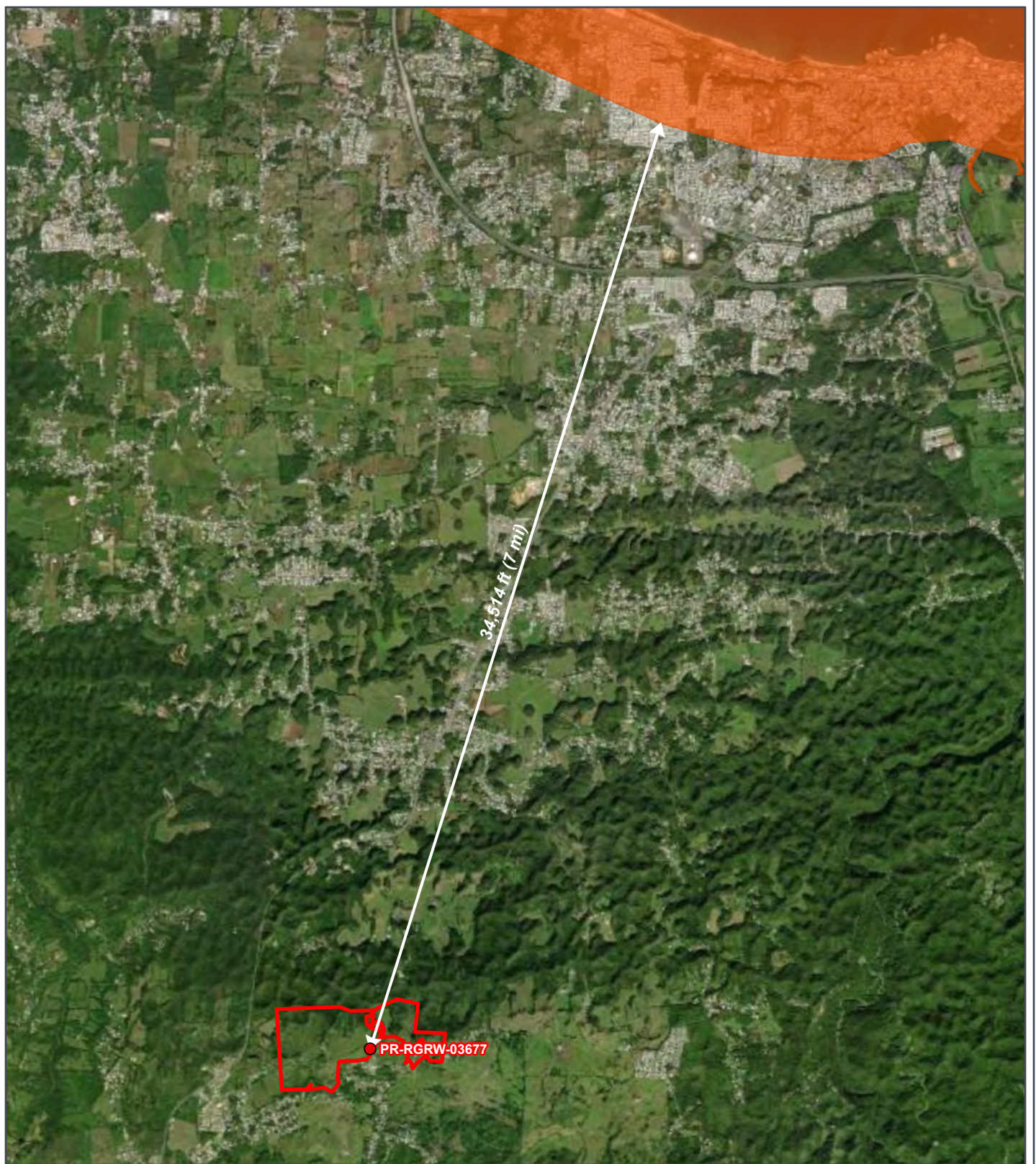
### **Worksheet Summary**

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 34,514 ft (7 mi) 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**

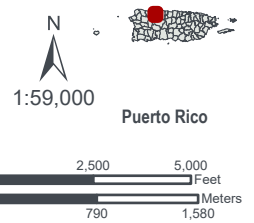
Applicant ID: PR-RGRW-03677



- Site
- Coastal Management Zone

Carr. 134 km 30 Bo Bayaney  
 Hatillo, Puerto Rico 00659  
 Parcel ID: 075-000-008-45-000  
 Parcel Center:  
 66.781712°W 18.377266°N

Data Source: <https://coast.noaa.gov/arcgis/rest/services/Hosted/CoastalZoneManagementAct/BaseMap:ESRI/ArcGIS/Online>  
 accessed March 2024  
 Updated: 3/28/2024  
 Layout: Coastal Zone Management  
 Aprx: 72428\_ReGrowTier2Maps



## **Attachment 6**

**Contamination and Toxics Substances  
Partner Worksheet, Radon Agency  
Correspondence, 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.

## 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

*à 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 **à Explain below.**

The Environmental Site Inspection and Desktop Review did not reveal any potential contamination or hazards.

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

- Yes *à 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.  
à *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)

à *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 January 2, 2024 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 that could not be resolved with mitigation (see Appendix C- Environmental Site Inspection Report).

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

---

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

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

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

purchase and installation of a Farm in the City whose primary purpose is to grow produce; therefore, it falls under the exemptions listed in "Considering radon in the environmental review" of the CPD memo. In addition, a desktop review of USEPA databases, NEPAassist, and other sources was conducted to determine if the project site was located near dump sites, junk yards, landfills, hazardous waste sites, or industrial sites, including USEPA National Priorities List Sites (Superfund sites), CERCLA or state-equivalent sites, RCRA Corrective Action sites with release(s) or suspected release(s) requiring clean-up action and/or further investigation. The parcel has been used for agricultural purposes and there has been no change in land use in the last 20 years. The project is located in a rural area of Hatillo Municipio and will continue to be used for agricultural purpose.

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

**Radon**  
**Attachments**



August 20, 2024

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

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

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

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

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

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

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

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

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

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

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

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

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

Sincerely,

William O. Rodríguez Rodríguez, Esq.  
Secretary

Cc: Mr. Oleg Povelko, [Povelko.Oleg@epa.gov](mailto:Povelko.Oleg@epa.gov)  
Mr. Matthew Lantia, [lantia.matthew@epa.gov](mailto:lantia.matthew@epa.gov)



August 20, 2024

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

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

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

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

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

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

Sincerely,

William O. Rodríguez Rodríguez, Esq.  
Secretary

Cc: Dr. Carlos Marín, [carlos.marin3@upr.edu](mailto:carlos.marin3@upr.edu)



August 20, 2024

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

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

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

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

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

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

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

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

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

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

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

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

Sincerely,

William O. Rodríguez Rodríguez, Esq.  
Secretary



August 20, 2024

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

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

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

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

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

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

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

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

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

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Sincerely,

William O. Rodríguez Rodríguez, Esq.  
Secretary

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



August 20, 2024

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

Via email: [drCarlos.mellado@salud.pr.gov](mailto:drCarlos.mellado@salud.pr.gov)

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

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

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

Sincerely,

William O. Rodríguez Rodríguez, Esq.  
Secretary

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



August 20, 2024

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

Via email: [hsweyers@usgs.gov](mailto:hsweyers@usgs.gov)

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

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

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

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

Sincerely,

William O. Rodríguez Rodríguez, Esq.  
Secretary

Cc: Mr. R. Randall Schumann, [rschumann@usgs.gov](mailto:rschumann@usgs.gov)

**From:** Charp, Paul (CDC/NCEH/DEHSP) <pac4@cdc.gov>  
**Sent:** Tuesday, September 3, 2024 6:36 AM  
**To:** Miranda, Sandra (CDC/PHIC/DPS); Irizarry, Jessica (CDC/PHIC/DPS); Rzeszotarski, Peter (CDC/NCEH/DEHSP); Vinson, D. Aaron (CDC/NCEH/DEHSP)  
**Cc:** Kostak, Liana (CDC/PHIC/DPS); Vazquez, Germaine (CDC/NCEH/DEHSP)  
**Subject:** RE: REHi: Puerto Rico Request for Information- Randon testing and levels

Good morning, Sandra and others,

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

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

If you have any additional questions, please contact me.

Thank you and best regards,

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



**From:** Schumann, R. Randall <rschumann@usgs.gov>  
**Sent:** Wednesday, August 21, 2024 4:39 PM  
**To:** Melanie Medina Smaine <mmedina@vivienda.pr.gov>; Weyers, Holly S <hsweyers@usgs.gov>  
**Cc:** Elaine Dume Mejia <Edume@vivienda.pr.gov>; Luz S Colon Ortiz <Lcolon@vivienda.pr.gov>; Aldo A. Rivera-Vazquez <aarivera@vivienda.pr.gov>  
**Subject:** RE: Request for Information- Radon testing and levels

Dear Ms. Medina Smaine,

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

Best regards,

R. Randall Schumann  
Scientist Emeritus  
U.S. Geological Survey  
Geosciences and Environmental Change Science Center  
Denver, Colorado, USA  
[rschumann@usgs.gov](mailto:rschumann@usgs.gov)  
<https://www.usgs.gov/staff-profiles/r-randall-schumann>

-----

**From:** Raul Hernandez Doble <rhernandez2@salud.pr.gov>  
**Sent:** Wednesday, August 21, 2024 2:13:31 PM  
**To:** Melanie Medina Smaine <mmedina@vivienda.pr.gov>; Dr. Carlos Mellado <drcarlos.mellado@salud.pr.gov>  
**Cc:** Elaine Dume Mejia <Edume@vivienda.pr.gov>; Luz S Colon Ortiz <Lcolon@vivienda.pr.gov>; Aldo A. Rivera-Vazquez <aarivera@vivienda.pr.gov>; Mayra Toro Tirado <mtoro@salud.pr.gov>  
**Subject:** RE: [EXTERNAL]Request for Information- Randon testing and levels

Good afternoon. Ms. Medina

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

Raul Hernandez Doble  
Director, Seccion Salud Radiologica  
Division de Salud Ambiental  
Secretaria Auxiliar para la Vigilancia y la Proteccion de la Salud Publica  
[rhernandez2@salud.gov.pr](mailto:rhernandez2@salud.gov.pr)  
Phone: (787)765-2929 ext. 3210



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**From:** Reyes, Brenda <Reyes.Brenda@epa.gov>  
**Sent:** Wednesday, September 18, 2024 11:48 AM  
**To:** Cesar O Rodriguez Santos <cesarrodriguez@drna.pr.gov>; Maritza Rosa Olivares <maritzarosaolivares@drna.pr.gov>; Silvina Cancelos Mancini <silvina.cancelos@upr.edu>; Melanie Medina Smaine <mmedina@vivienda.pr.gov>  
**Cc:** Elaine Dume Mejia <Edume@vivienda.pr.gov>; Luz S Colon Ortiz <Lcolon@vivienda.pr.gov>; Aldo A. Rivera-Vazquez <aarivera@vivienda.pr.gov>; Povetko, Oleg (he/him/his) <Povetko.Oleg@epa.gov>  
**Subject:** RE: Request for Information- Randon testing and levels

Saludos.

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

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

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

Estimada Melanie Medina

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

Atentamente

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



Bubble Dynamics Lab  
University of Puerto Rico - Mayaguez



EPA REGION 2  
CARIBBEAN ENVIRONMENTAL PROTECTION DIVISION

September 23, 2024

**VIA EMAIL**

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

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

Dear Honorable Secretary Rodriguez Rodriguez:

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

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

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

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

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

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

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

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

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

2

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

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

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

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



**Memorandum to File**

**Date:** September 30, 2024

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

**Application Number:** PR-RGRW-03677

**Project:** Caribbean Greenery Farm

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

After reviewing Application Number PR-RGRW-03677 under the Re-Grow PR Urban-Rural Agriculture Program, administered by the Puerto Rico Department of Housing (**PRDOH**), to complete the property's contamination analysis in accordance with 24 C.F.R. § 50.3(i) and 24 C.F.R. § 58.5(i), we have determined that testing the property's radon levels is infeasible and impracticable.

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

- As required by the CPD Notice 23-103, the scientific data reviewed in lieu of testing must consist of a minimum of ten documented test results over the previous ten years. If there are less than ten documented results over this period, it is understood that there is a lack of scientific data. The latest report for radon testing in Puerto Rico was prepared in 1995 by the U.S. Department of the Interior in Cooperation with the U.S. Environmental Protection Agency. No other completed studies and reports on radon testing are available in Puerto Rico.
- There is no available science-based or state-generated information for Puerto Rico for the last ten years that can be used to determine whether the project site is in a high-risk area. The Department of Health and Human Services, Centers for

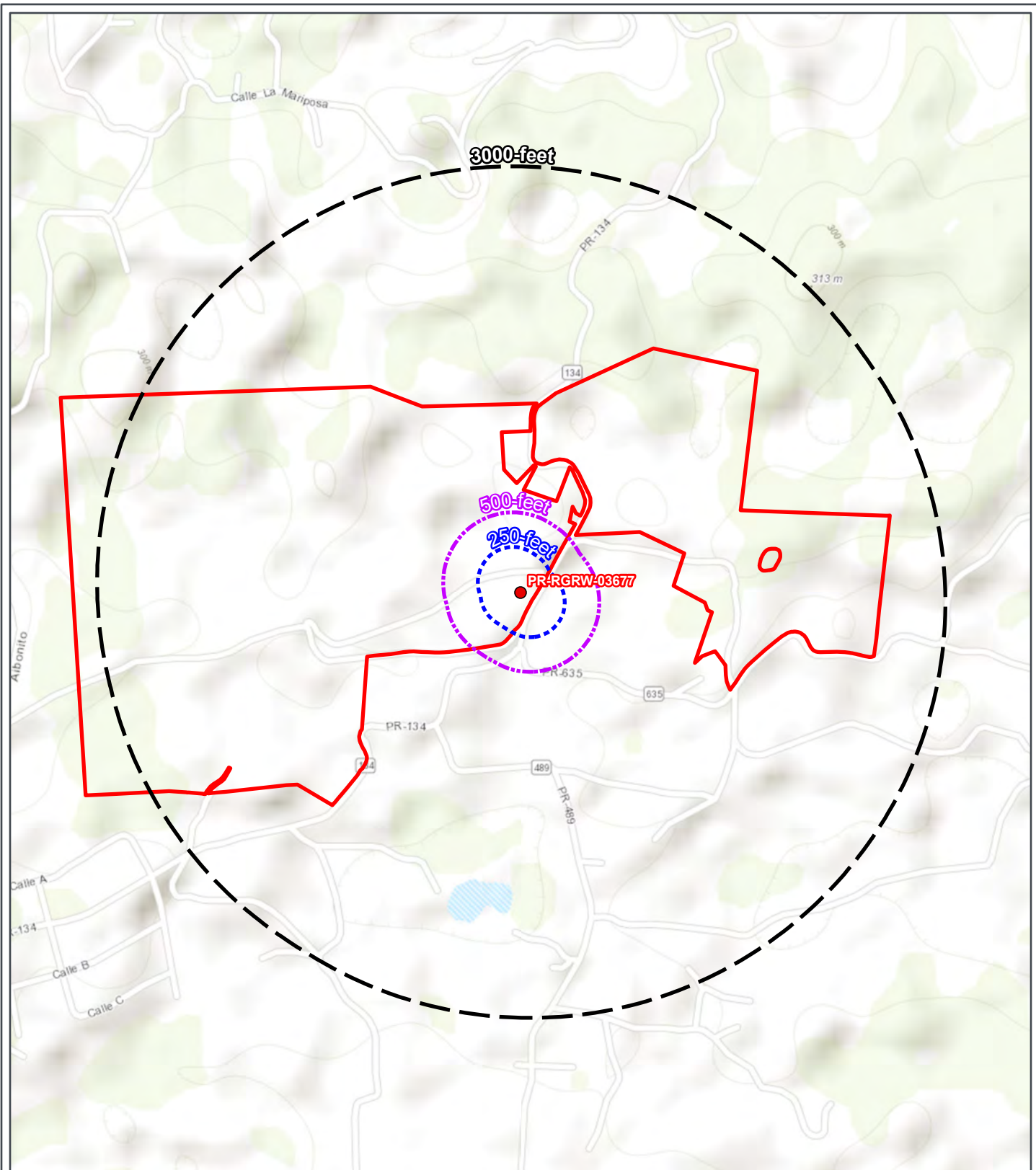
Disease Control and Prevention (**CDC**), National Environmental Public Health Tracking, and Radon Testing map do not include Puerto Rico data.

- There are only two (2) licensed professionals in Puerto Rico who can conduct radon testing using the American National Standards Institute/American Association of Radon Scientists and Technologists (**ANSI/AARST**) testing standards, which makes it difficult, time-consuming, and highly expensive to coordinate and secure a site visit for the contamination evaluation.
- Do-it-yourself (**DIY**) radon test kits are known to be unreliable in assuring and controlling the quality of the test results; they are not readily available in Puerto Rico, and the cost and time required for purchasing and sending them for analysis are unreasonable when weighed against the results' reliability and the need for prompt results.
- Local authorities in Puerto Rico do not have the specialized radon monitoring equipment or trained staff needed to conduct the radon testing analysis and ensure proper quality control and quality assurance practices are adhered to. We also do not have a radiation laboratory certified for radon testing.

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

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

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



REGROW PROGRAM

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

Applicant ID: PR-RGRW-03677

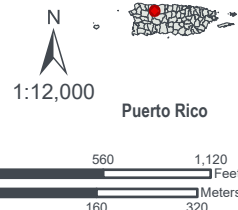


- Site
- ▭ Site Parcel
- ▭ Buffer (250-feet)
- ▭ Buffer (500-feet)
- ▭ Buffer (3000-feet)
- ▭ Water dischargers

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

Carr. 134 km 30 Bo Bayaney  
Hatillo, Puerto Rico 00659  
Parcel ID: 075-000-008-45-000  
Parcel Center:  
66.781712°W 18.377266°N

Data Source: <https://geopub.epa.gov/arcgis/rest/services/EMEF/MapServer>  
Base Map: ESRI ArcGIS Online, accessed March 2024  
Updated: 3/28/2024  
Layout: Contamination and Toxic Substances



## **Attachment 7**

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



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

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

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

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

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

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

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

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

**Explain your determination:**

[Click here to enter text.](#)

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

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

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

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

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

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

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

**3. Recommend one of the following effects that the project will have on federally listed species or designated critical habitat:**

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

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

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

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

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

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

**Worksheet Summary**

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

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

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

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

Based on the site inspection and proposed project activities, the project will have *no effect* on the *Cordia bellonis* or designated critical habitat. Due to the generalist nature of the Puerto Rican boa, forested habitat surrounding the project areas, and dense ground cover present throughout the review area, the Puerto Rican boa may occur within the project area. The applicant will



employ the conservation measures outlined in the USFWS 2024 General Project Design Guidelines for the Puerto Rican boa. As such, it is anticipated that the project *may affect, but is not likely to adversely affect* the Puerto Rican boa. See the attached USFWS informal consultation request and subsequent concurrence, dated August 8, 2024.



## United States Department of the Interior

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



In Reply Refer to:  
FWS/R4/CESFO/72065-Gen

Submitted Via Electronic Mail: [jcperez@vivienda.pr.gov](mailto:jcperez@vivienda.pr.gov)

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

Re: CDBG-DR PR-RGRW-03677 Caribbean Greenery  
Farm LLC, Hatillo, Puerto Rico

Dear Mr. Pérez-Bofill

Thank you for your letter dated July 09, 2024, requesting informal consultation on the above referenced project. As per your request, our comments are provided under the Endangered Species Act (Act) (87 Stat. 884, as amended; 16 United States Code 1531 et seq.), and the Fish and Wildlife Coordination Act (48 Stat. 401, as amended; 16 U.S.C. 661 et seq.).

The Puerto Rico Department of Housing (PRDOH) is proposing the installation of a new Farm in the City container and underground water and electrical connections. The project is located in a rural residential area at State Road PR-134 Km 30, Bayaney Ward (18°22'38.0"N 66°46'54.0"W) in the municipality of Hatillo. Two locations are being evaluated for the installation of the Farm in the City container where at the Option 1 location would require the removal of up to 10 palm trees (*Areaceae* family) and some vegetation clearing.

Using the Information for Planning and Consultation (IPaC) system PRDOH has determined that the proposed project lies within the range of Puerto Rican boa (*Epicrates inornatus* now known as *Chilabothrus inornatus*) and *Cordia bellonis* (no common name).

PRDOH used the Caribbean Determination Key (DKey) in the IPaC application to evaluate the potential impacts of the proposed project on federally listed species (Project code: 2024-0088478). Based on the answers provided, a consistency letter was obtained for the Puerto Rican boa, which determined that the proposed actions for this project may affect, but is not likely to adversely affect (NLAA) this species. Conservation measures for the Puerto Rican boa will be implemented. The Service acknowledges receipt of the NLAA DKey consistency letter for the Puerto Rican boa with the implementation of the conservation measures.

The existing habitat conditions at the proposed project location consist of fenced and landscaped lawn with scattered, isolated palm trees and decorative shrubs. Therefore, based on the nature of the project, scope of work, information available, and analysis of the IPaC lists, PRDOH has determined that the proposed project has no effect on *Cordia alliodora* due to the lack of suitable habitat.

We acknowledge receipt of PRDOH's NE determination for *Cordia alliodora*. Currently, we do not have information to refute that determination. Because the PRDOH made a NE determination, PRDOH is not required to conduct formal or informal section 7 consultation with the Service, and the Service is not required to concur with PRDOH's NE determination.

Thank you for the opportunity to comment on this project. If you have any questions or require additional information, please contact us via email at [caribbean\\_es@fws.gov](mailto:caribbean_es@fws.gov) or by phone at (786) 244-0081.

Sincerely,

Lourdes Mena  
Field Supervisor

DRR

cc:  
Susan Fischer, SWCA

---

## TECHNICAL MEMORANDUM

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

**From:** Susan Fischer, Wildlife Ecologist

**Date:** May 10, 2024

**Re:** **Threatened and Endangered Species Review for Carretera 134 KM 30 Barrio Bayaney, Hatillo, Puerto Rico, 00659**

---

**Applicant Name:** Caribbean Greenery Farm  
**Site Address:** Carretera 134 KM 30 Barrio Bayaney, Hatillo, Puerto Rico 00659  
**GPS Coordinates:** 18.377578, -66.782656

This Threatened and Endangered Species Review evaluates the installation of a new Farm in the City greenhouse. This parcel is located at Carretera 134 KM 30 Barrio Bayaney, Hatillo, Puerto Rico. To complete this review, the United States Fish and Wildlife Service's (USFWS) Information for Planning and Consultation (IPaC) system database was 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 proposed project location.

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 two terrestrial species considered to be threatened or endangered under the Endangered Species Act:

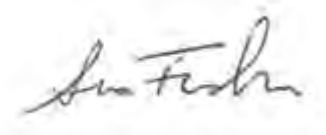
- Puerto Rican Boa (*Chilabothrus inornatus*)
- *Cordia alliodora*

A site inspection on January 2, 2024 found the parcel is situated in a moderately 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 open pasture lawn with some palm trees. Representative photographs of the subject property are included in the Environmental Field Assessment Photographic Log. The review area does contain trees that will be removed during construction; however, they are palm trees and do not provide suitable habitat for any federally-listed species. Inspectors did not observe any suitable ground or vegetative habitat, individuals, or nests for any listed species at the proposed project location. There is no critical habitat for any species found within the subject property based on the USFWS databases.

Based on agency data and site observations, this review concludes that the installation of the new Farm in the City greenhouse on the parcel will result in *no effect* to all 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". The signature is written in dark ink on a light background.

Susan Fischer  
Wildlife Ecologist  
SWCA Environmental Consultants



## United States Department of the Interior



FISH AND WILDLIFE SERVICE  
Caribbean Ecological Services Field Office  
Post Office Box 491  
Boqueron, PR 00622-0491  
Phone: (939) 320-3135 Fax: (787) 851-7440  
Email Address: [CARIBBEAN\\_ES@FWS.GOV](mailto:CARIBBEAN_ES@FWS.GOV)

In Reply Refer To:  
Project code: 2024-0088478  
Project Name: PR-RGRW-03677

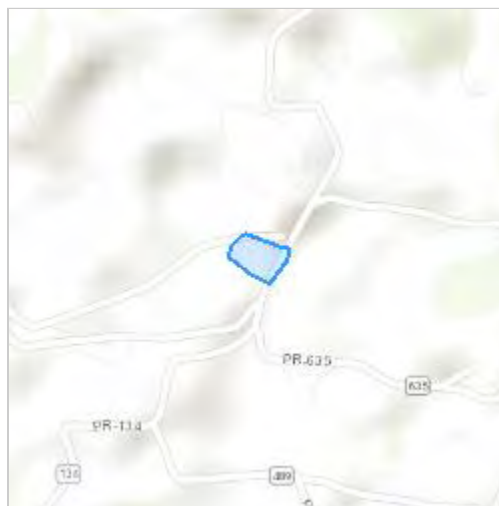
05/09/2024 20:45:10 UTC

Subject: Consistency letter for the project named 'PR-RGRW-03677' for specified threatened and endangered species, that may occur in your proposed project location, pursuant to the IPaC determination key titled Caribbean Determination Key (DKey).

Dear Applicant:

Thank you for using the assisted evaluation keys in IPaC. This letter is provided pursuant to the Service's authority under the Endangered Species Act of 1973, as amended (ESA) (87 Stat. 884; 16 U.S.C. 1531et seq.). On May 09, 2024, Kaitie Wilms used the Caribbean DKey; dated April 03, 2024, in the U.S. Fish and Wildlife Service's online [IPaC application](#) to evaluate potential impacts to federally listed species, from a project named 'PR-RGRW-03677'. The project is located in Hatillo County, Puerto Rico (shown below).

The approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/@18.37731615,-66.78166569403257,14z>



The following description was provided for the project 'PR-RGRW-03677':

## Installation of a new greenhouse

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

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

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

Please provide this consistency letter to the lead federal action agency or its designated non-federal representative with a request for its review, and as the agency deems appropriate, to submit for concurrence verification through the IPaC system. The lead federal action agency or designated non-federal representative should log into IPaC using their agency email account and click "Search by record locator." They will need to enter the record locator **238-143111603**

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

In addition to the species listed above, the following species and/or critical habitats may also occur in your project area and **are not** covered by this conclusion. Effects to the other federally listed species or critical habitat as listed below should be considered as part of your ESA review for the project.

- *Cordia bellonis* Endangered

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

We appreciate your interest in protecting endangered species and their habitats. It is the Service's mission to work with others to conserve, protect, and enhance fish, wildlife, and plants and their habitats for the continuing benefit of our people. If you have any questions or require additional information, please contact our office at [Caribbean\\_es@fws.gov](mailto:Caribbean_es@fws.gov).

**Action Description**

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

**1. Name**

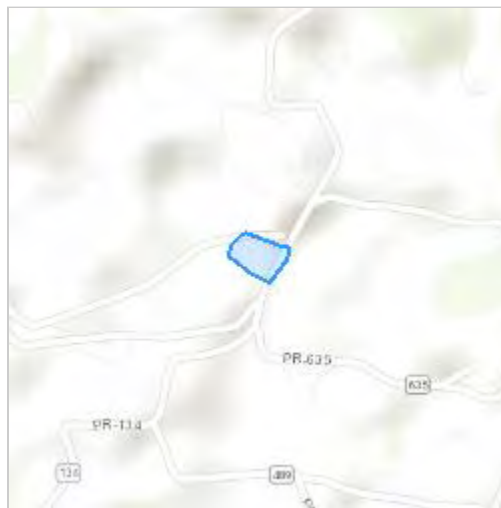
PR-RGRW-03677

**2. Description**

The following description was provided for the project 'PR-RGRW-03677':

Installation of a new greenhouse

The approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/@18.37731615,-66.78166569403257,14z>





## QUALIFICATION INTERVIEW

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

*No*

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

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

*No*

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

*No*

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

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

*No*

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

*No*

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

*No*

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

*No*

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

*No*

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

*No*

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

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

*No*

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

*No*

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

*Yes*

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

**Automatically answered**

*Yes*

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

*Yes*

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

*No*

## **IPAC USER CONTACT INFORMATION**

Agency: SWCA

Name: Kaitie Wilms

Address: 911 Hammond Drive

City: North Augusta

State: SC

Zip: 29841

Email: kaitie.wilms@swca.com

Phone: 8436930711

## **LEAD AGENCY CONTACT INFORMATION**

Lead Agency: Department of Housing and Urban Development



## United States Department of the Interior



FISH AND WILDLIFE SERVICE  
Caribbean Ecological Services Field Office  
Post Office Box 491  
Boqueron, PR 00622-0491  
Phone: (939) 320-3135 Fax: (787) 851-7440  
Email Address: [CARIBBEAN\\_ES@FWS.GOV](mailto:CARIBBEAN_ES@FWS.GOV)

In Reply Refer To:  
Project Code: 2024-0088478  
Project Name: PR-RGRW-03677

05/09/2024 20:40:50 UTC

Subject: List of threatened and endangered species that may occur in your proposed project location or may be affected by your proposed project

To Whom It May Concern:

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

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

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

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

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

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

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

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

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

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

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

This species list is provided by:

Caribbean Ecological Services Field Office

[caribbean\\_es@fws.gov](mailto:caribbean_es@fws.gov)

Post Office Box 491

Boqueron, PR 00622-0491

(786) 244-0081

Attachment(s):

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

## OFFICIAL SPECIES LIST

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

This species list is provided by:

**Caribbean Ecological Services Field Office**

Post Office Box 491

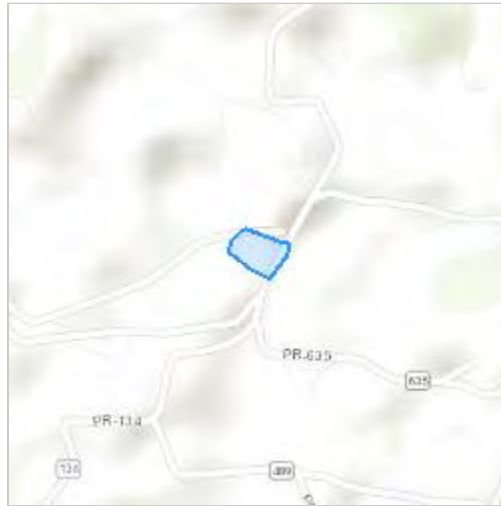
Boqueron, PR 00622-0491

(939) 320-3135

## PROJECT SUMMARY

Project Code: 2024-0088478  
Project Name: PR-RGRW-03677  
Project Type: Disaster-related Grants  
Project Description: Installation of a new greenhouse  
Project Location:

The approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/@18.37731615,-66.78166569403257,14z>



Counties: Hatillo County, Puerto Rico

## ENDANGERED SPECIES ACT SPECIES

There is a total of 2 threatened, endangered, or candidate species on this species list.

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

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries<sup>1</sup>, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

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

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



## REPTILES

| NAME   | STATUS     |
|--|------------|
| <p>Puerto Rican Boa <i>Chilabothrus inornatus</i></p> <p>No critical habitat has been designated for this species.<br/>Species profile: <a href="https://ecos.fws.gov/ecp/species/6628">https://ecos.fws.gov/ecp/species/6628</a><br/>General project design guidelines:<br/><a href="https://ipac.ecosphere.fws.gov/project/7FHM4GMLDNCI7H34PQLJAVR3IA/documents/generated/7159.pdf">https://ipac.ecosphere.fws.gov/project/7FHM4GMLDNCI7H34PQLJAVR3IA/documents/generated/7159.pdf</a></p> | Endangered |

## FLOWERING PLANTS

| NAME   | STATUS     |
|--|------------|
| <p>Cordia bellonis</p> <p>No critical habitat has been designated for this species.<br/>Species profile: <a href="https://ecos.fws.gov/ecp/species/7228">https://ecos.fws.gov/ecp/species/7228</a></p> | Endangered |

## CRITICAL HABITATS

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

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

## USFWS NATIONAL WILDLIFE REFUGE LANDS AND FISH HATCHERIES

Any activity proposed on lands managed by the [National Wildlife Refuge](#) system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

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

## BALD & GOLDEN EAGLES

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

Any person or organization who plans or conducts activities that may result in impacts to bald or golden eagles, or their habitats<sup>3</sup>, should follow appropriate regulations and consider implementing appropriate conservation measures, as described in the links below. Specifically, please review the "[Supplemental Information on Migratory Birds and Eagles](#)".

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

3. 50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)

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

## MIGRATORY BIRDS

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

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats<sup>3</sup> should follow appropriate regulations and consider implementing appropriate conservation measures, as described in the links below. Specifically, please review the "[Supplemental Information on Migratory Birds and Eagles](#)".

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

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

## WETLANDS

Impacts to [NWI wetlands](#) and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local [U.S. Army Corps of Engineers District](#).

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

THERE ARE NO WETLANDS WITHIN YOUR PROJECT AREA.

## **IPAC USER CONTACT INFORMATION**

Agency: SWCA

Name: Kaitie Wilms

Address: 911 Hammond Drive

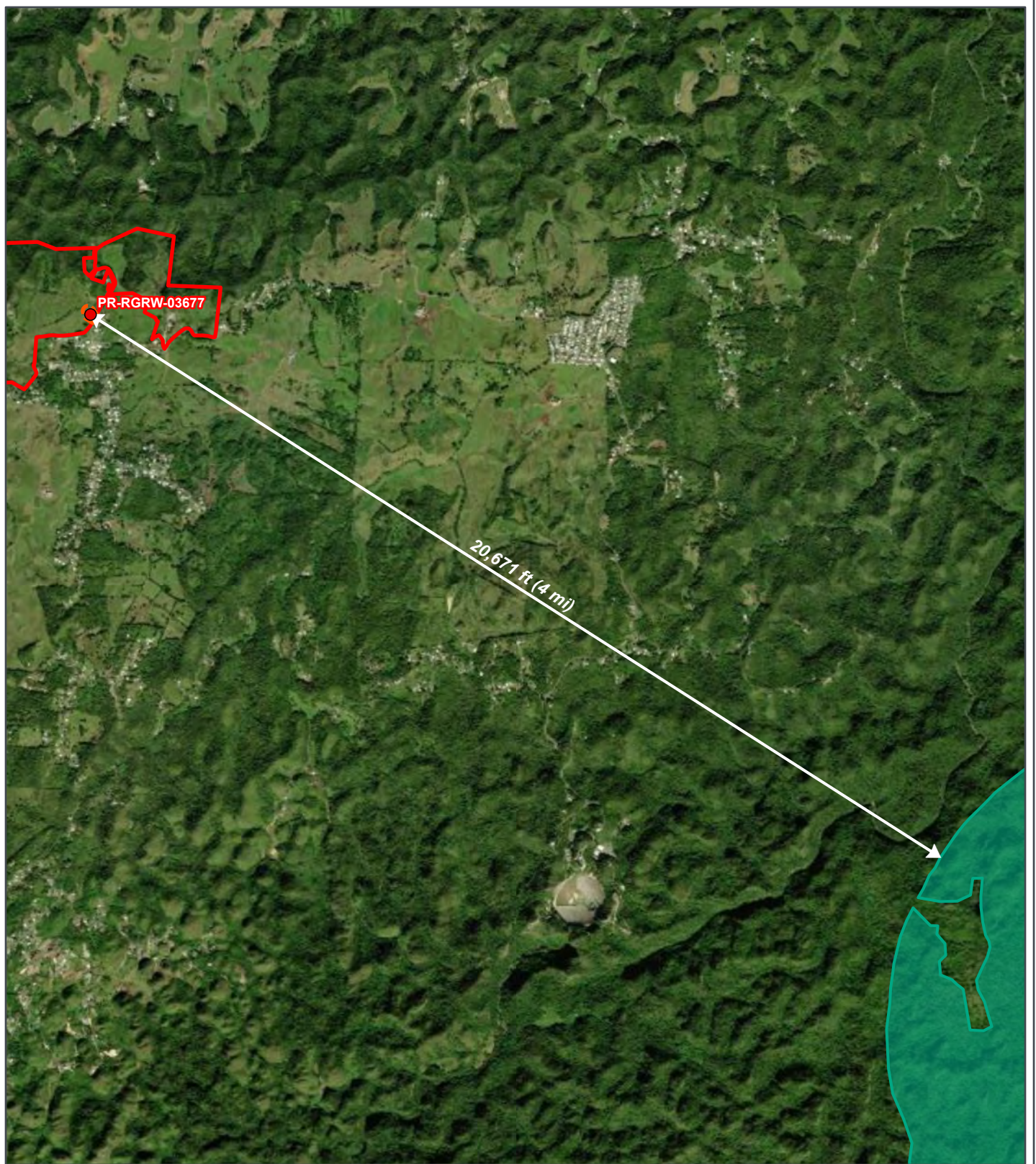
City: North Augusta

State: SC

Zip: 29841

Email: kaitie.wilms@swca.com

Phone: 8436930711



REGROW PROGRAM

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

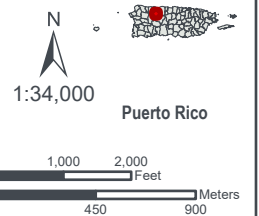
Applicant ID: PR-RGRW-03677



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

Carr. 134 km 30 Bo Bayaney  
Hatillo, Puerto Rico 00659  
Parcel ID: 075-000-008-45-000  
Parcel Center:  
66.781712°W 18.377266°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 March 2024  
Updated: 3/28/2024  
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 the Farm in the City, an electrical meter, and well water connection. 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 à *Continue to Question 2.*

No

à *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 à *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 à *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.*

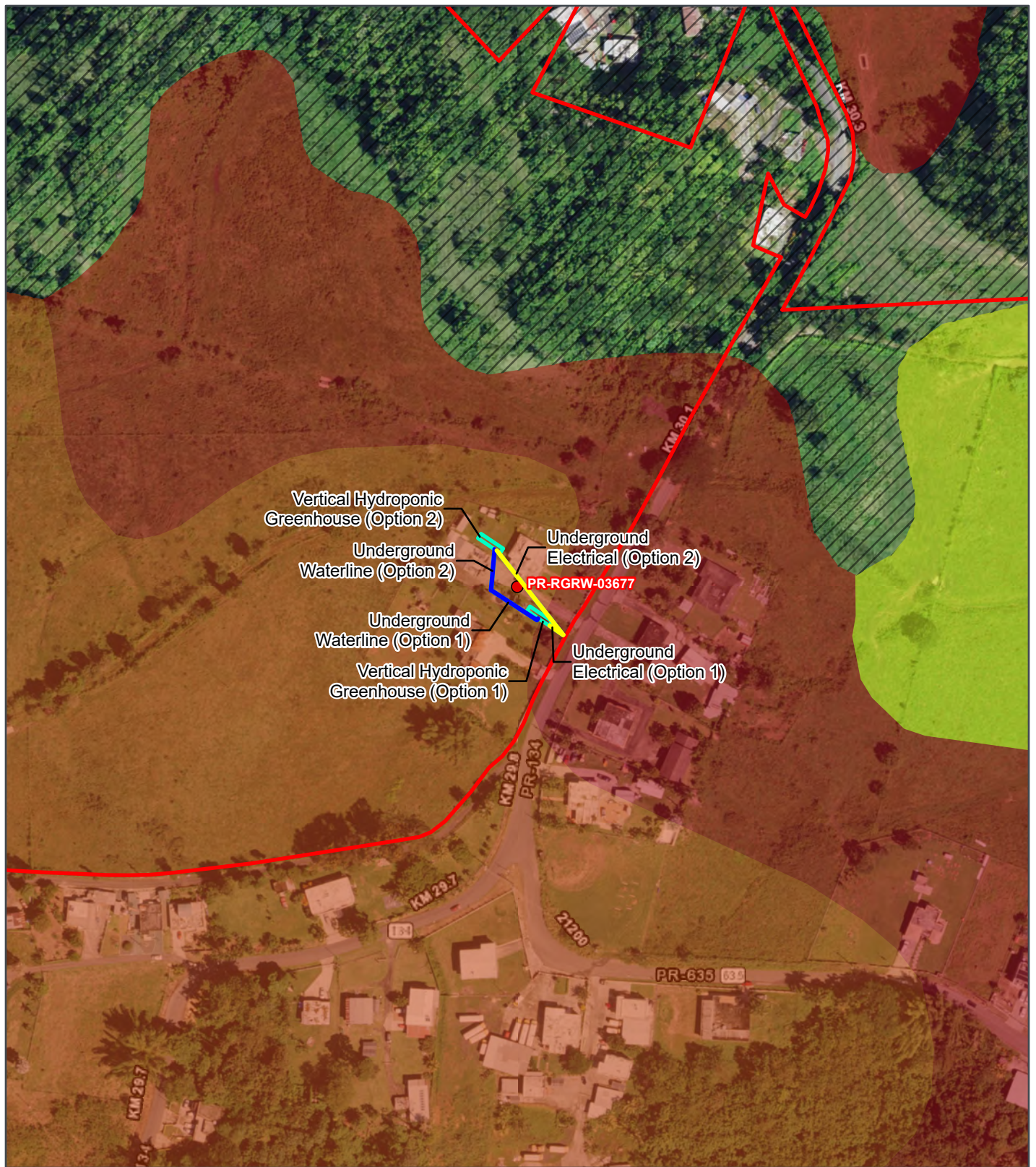
### **Worksheet Summary**

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. Per the USGS/NRCS Web Soil Survey, the project area crosses four mapped soil series: CmF2 (Colinas cobbly clay loam, 20 to 60 percent slopes eroded); MoD2 (Moca clay, 12 to 20 percent slopes, eroded); PhC2 (Perchas clay, 2 to 12 percent slopes, eroded); and PhD2 (Perchas clay, 12 to 20 percent slopes, eroded). Prime farmlands and 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**

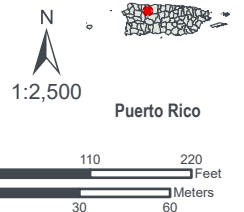
Applicant ID: PR-RGRW-03677



- Site
- Site Parcel
- Project Footprint (Option)
- Underground Waterline
- Underground Electrical Line
- 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 30 Bo Bayaney  
Hatillo, Puerto Rico 00659  
Parcel ID: 075-000-008-45-000  
Parcel Center:  
66.781712°W 18.377266°N

Data Source: <https://websitesurveys.nrcs.usda.gov/abp/>  
Base Map: USA NAIIP Imagery  
Imagery Year: 2022  
Updated: 3/28/2024  
Layout: Prime Farmland  
Aprx: 72428\_ReGrowTier2Maps



## **Attachment 10**

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

**Floodplain Management (CEST and EA)**

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

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

Yes

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

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

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

Exemptions do not apply due to the project activities being the construction of a greenhouse.

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

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

No. *Continue to Question 2.*

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

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

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

No. Continue to Question 3.

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

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

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

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

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

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

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

Yes, continue to part b.

No. Review for floodplain management is complete.

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

Floodway: *Continue to Question 5. Floodways.*

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

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

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



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

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

**OR;**

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

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

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

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

Yes, continue to part b.

No. Review for floodplain management is complete.

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

Floodway: *Continue to Question 5. Floodways.*

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

**5. Floodways**

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

Yes

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

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

No

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

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

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

Yes

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

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

No

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

## 7. 8-Step Process.

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

8-Step Process is inapplicable per 55.13.

Select the applicable citation:

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

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

5-Step Process is applicable per 55.14.

Provide documentation of 5-Step Process.

Select the applicable citation:

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

*Continue to Question 8. Mitigation.*

8-Step Process applies.

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

*Continue to Question 8. Mitigation.*

## **8. Mitigation**

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

N/A

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

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

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

### **Worksheet Summary**

#### **Compliance Determination**

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

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

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

See below.

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

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

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

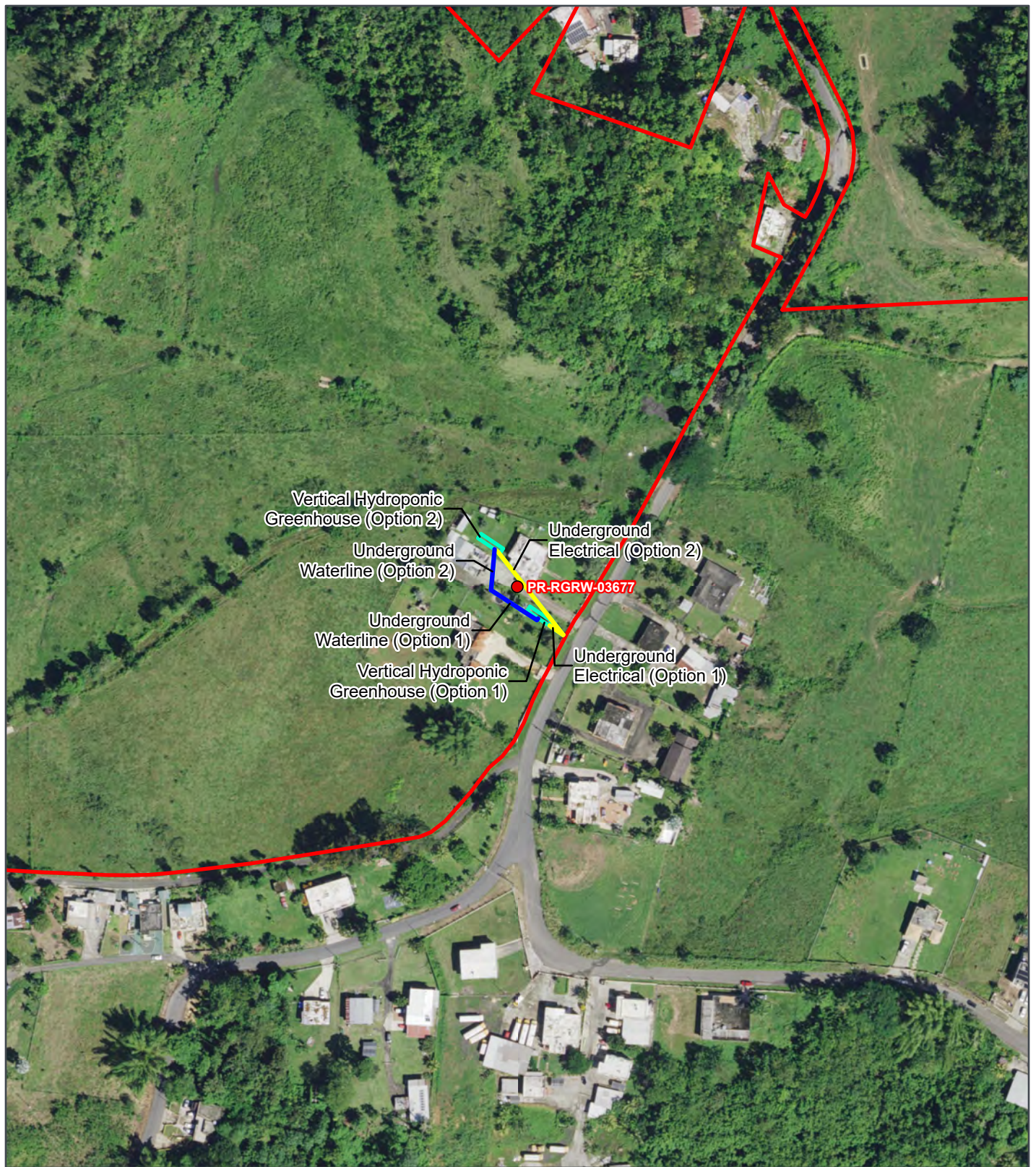
- Map panel numbers and dates
- Names of all consulted parties and relevant consultation dates
- Names of plans or reports and relevant page numbers
- Any additional requirements specific to your region

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

An Advisory Base Flood Elevation (ABFE) map was developed by FEMA for this FIRM, which shows the project 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, as amended by Executive Order 13690.

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

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



REGROW PROGRAM

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

Applicant ID: PR-RGRW-03677



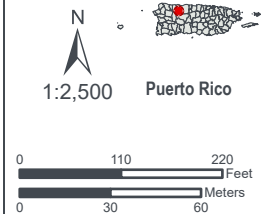
- Site
- Site Parcel
- Project Footprint (Option)
- Underground Electrical Line
- Underground Waterline
- Advisory Base Flood Elevation (ABFE)
- 0.2% Annual Chance Flood
- 1% Annual Chance Flood
- Zone A
- Zone A-Floodway
- Zone AE
- Coastal A Zone
- Coastal A Zone and Floodway
- Zone AE-Floodway
- Zone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

Carr. 134 km 30 Bo Bayaney  
Hatillo, Puerto Rico 00659

Parcel ID: 075-000-008-45-000  
Parcel Center:  
66.781712°W 18.377266°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: USA NAIP Imagery  
Imagery Year: 2022  
Updated: 3/28/2024  
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

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

## Historic Preservation (CEST and EA) – PARTNER

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

### Threshold

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

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

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

Click here to enter text.

→ *Continue to the Worksheet Summary.*

- No, because the project consists solely of activities included in a No Potential to Cause Effects memo or other determination [36 CFR 800.3(a)(1)].

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

Click here to enter text.

→ *Continue to the Worksheet Summary.*

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

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

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

Step 1: Initiate consultation

Step 2: Identify and evaluate historic properties

Step 3: Assess effects of the project on historic properties

Step 4: Resolve any adverse effects

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



## Step 1 - Initiate Consultation

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

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

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

→ *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.

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 concrete block anchors for the foundation and the installation of the utilities 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.

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 (ICP) which shows that there are no reported archaeological materials within a half-mile (mi) radius of the project location. One (1) study of cultural resources has been conducted within the 0.5 mi review radius with no cultural resources found. ICP-CAT-HT-15-11-05 located 0.02 mi southeast of the project location, was conducted in 2015 for a new water distribution system following highway PR-134. The proposed project is located in the northwestern region of Puerto Rico at an elevation of 881.9 feet (ft; 268.5 meters [m]) above mean sea level. Per the USGS/NRCS Web Soil Survey, the project area crosses four mapped soil series: CmF2 (Colinas cobbly clay loam, 20 to 60 percent slopes eroded); MoD2 (Moca clay, 12 to 20 percent slopes, eroded); PhC2 (Perchas clay, 2 to 12 percent slopes, eroded); and PhD2 (Perchas clay, 12 to 20 percent slopes, eroded). The project area APE is in the south-central region of the municipality of Hatillo. The general project area is located on a flat plain at the southern base of a mountain range. The closest freshwater source is an unnamed stream, located 0.32 mi (0.54 kilometer [km]) southwest of the project area. The Atlantic coast is approximately 8 mi (12.8 km) from the project area.

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. One cultural resource survey has been conducted within 0.5 mile of the project area. ICP-CAT-HT-15-11-05 was conducted in 2015 for a new water distribution system following highway PR-134. 0.02 mi southeast of the project location. There were no historic resources found in this survey.

The project area is in a suburban area of Hatillo, approximately 0.5-mile northeast of the town of Bayaney. The parcel area has been cleared previously and occurs within a cluster of homes with high fencing and residential landscaping including palms, gumbo limbo trees, and other tropical bushes, trees, and flowers. The project includes the purchase of a Farm in the City, including a 320-foot greenhouse within the property's fence line. The two proposed locations for the project include behind (northwest) of the primary residence between the residence and the back fence line, and to the southeast of the primary residence, along the fence line of residence set back from the fence lining the street. The property first appears on historic aerials in 2003, which accords with the property owner's statement that the building was built in the 1990s. The primary residence does not appear on the next available Google Earth aerial imagery in 1993 (googleearthpro.com).

Available aerials on Historic Aerials (<https://www.historicaerials.com/viewer>) date up to 1972, and those on USGS Earth Explorer (<https://earthexplorer.usgs.gov>) date up to 1970. Historic aerials and inspection of building materials, make, and design, indicate a date of construction for this property to be c. 1995. All additional structures appear on this parcel after this date in Google Earth imagery. Though the buildings across the street appear on the 1993 Google Earth imagery, they do not appear on 1977 USGS Aerials. Further, the property owner's information and architectural historian review of building materials, design, and construction indicate a DOC of c. 1985. As the project is situated on a parcel of a non-historic age residence, the surrounding structures are not of historic age, and due

to the distance from other housing and the vegetation that is covering the lot, no historic properties will be affected by the 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.

[Click here to enter text.](#)

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



# GOVERNMENT OF PUERTO RICO

## STATE HISTORIC PRESERVATION OFFICE

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

Monday, April 29, 2024

### Lauren B Poche

269 Avenida Ponce de Leon, San Juan, PR, 00917

SHPO-CF-04-15-24-02 PR-RGRW-03677 (Hatillo), Caribbean Greenery Farm, LLC

Ms. Poche,

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



Cuartel de Ballajá (Tercer Piso), Calle Norzagaray, Esq. Beneficencia, Viejo San Juan, PR 00901 | PO Box 9023935, San Juan, PR 00902-3935

April 15, 2024

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

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

**Section 106 NHPA Effect Determination Submittal: PR-RGRW-03677 – Caribbean Greenery Farm, LLC– Carr. 134 KM 30 Bo. Bayaney, 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). On February 9, 2018, an allocation of Community Development Block Grant - Disaster Recovery (CDBG-DR) funds were approved by the United States Department of Housing and Urban Development (HUD) under the Federal Register Volume 83, No. 28, 83 FR 5844, to assist the Commonwealth of Puerto Rico in meeting unmet needs in the wake of Hurricanes Irma and Maria. On August 14, 2018, an additional \$8.22 billion recovery allocation was allocated to Puerto Rico under the Federal Register Volume 83, No. 157, 83 FR 40314. With these funding allocations, the Puerto Rico Department of Housing (Housing) aims to lead a comprehensive and transparent recovery for the benefit of Puerto Rico residents.

On behalf of PRDOH and the subrecipient, the Puerto Rico Department of Agriculture, HORNE is submitting documentation for activities proposed by Caribbean Greenery Farm, LLC located at Carr. 134 KM 30 Bo. Bayaney, in the municipality of Hatillo. The undertaking for this project includes the purchase and installation of a new “Farm in the City” vertical hydroponic greenhouse module to be installed at one of two proposed locations; new buried utility connections will be required for the final selected location. The greenhouse will be built on 6 round concrete blocks anchoring each 9 square feet (3 feet by 3 feet) and 3 feet in height extending 2 feet deep into ground, to be the container's foundation. Electrical and water connections will be one foot underground, will include a new electrical meter approximately 9.17 square feet and 10 inches in height and 15 feet of PVC to connect to the neighborhood well that is located off property. Both project location options result in minimal ground disturbance and vegetation removal.

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

Please contact me by email at [lauren.poche@horne.com](mailto:lauren.poche@horne.com) or phone at 225-405-7676 with any questions or concerns.

Kindest regards,


A handwritten signature in blue ink that reads 'Lauren B. Poche'.

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

Architectural Historian, EHP Senior Manager

LBP/JLE

Attachments

|   |                      |   |
|---|----------------------|---|
| <b>PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM</b><br><b>REGROW PUERTO RICO PROGRAM</b><br><b>Section 106 NHPA Effect Determination</b> |                      |  |
| <b>Applicant: Caribbean Greenery Farm, LLC</b>  |                      |   |
| <b>Case ID: PR-RGRW-03677</b>   | <b>City: Hatillo</b> |   |

|  |  |
|--|--|
| <b>Project Location:</b> Carr. 134 KM 30 Bo. Bayaney, Hatillo, PR, 00659.  |  |
| <b>Project Coordinates:</b><br>Vertical Hydroponic Greenhouse (Option 1) – 18.377145, -66.781615<br>Vertical Hydroponic Greenhouse (Option 2) – 18.377445, -66.781828<br>Underground Electrical (Option 1) – 18.377087, -66.781542<br>Underground Electrical (Option 2) – 18.37724, -66.781656<br>Underground Waterline (Option 1) – 18.377188, -66.781722<br>Underground Waterline (Option 2) – 18.377336, -66.781818 |  |
| <b>TPID (Número de Catastro):</b> 075-000-008-45-000   |  |
| <b>Type of Undertaking:</b><br><input type="checkbox"/> Substantial Repair/Improvements<br><input checked="" type="checkbox"/> New Construction  |  |
| <b>Construction Date (AH est.):</b><br>Primary Residence: c. 1995<br>Additional Structures: c. 1985  | <b>Property Size (acres): 259.5 acres total</b><br>Vertical Hydroponic Greenhouse (Option 1) – 0.0073 acre (320 sq. ft.)<br>Vertical Hydroponic Greenhouse (Option 2) – 0.0073 acre (320 sq. ft.)<br>Underground Electrical (Option 1) – 0.0006 acre (25 square feet)<br>Underground Electrical (Option 2) – 0.0037 acre (160 square feet)<br>Underground Waterline (Option 1) – 0.0020 acre (85 square feet)<br>Underground Waterline (Option 2) – 0.0014 acre (62 square feet) |


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| <b>SOI-Qualified Architect/Architectural Historian:</b> Erin Edwards, MPS                      |
| <b>Date Reviewed:</b> February 16, 2024  |
| <b>SOI-Qualified Archaeologist:</b> Brian McNamara, M.A., R.P.A. and Delise Torres Ortiz, M.A. |
| <b>Date Reviewed:</b> January 26, 2024   |

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

### Project Description (Undertaking)

The proposed project includes the purchase and installation of a new “Farm in the City” vertical hydroponic greenhouse module (“Farm in the City” greenhouse module) to be installed at one of two locations and water and electrical connections. Both activities are located within an active agricultural farm. Based on a review of historical aerial imagery at



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| PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM<br>REGROW PUERTO RICO PROGRAM<br>Section 106 NHPA Effect Determination |  GOVERNMENT OF PUERTO RICO<br>DEPARTMENT OF HOUSING |
| Applicant: Caribbean Greenery Farm, LLC  |  |
| Case ID: PR-RGRW-03677   | City: Hatillo  |

<https://www.historicaerials.com/viewer>, the general area has been used for agriculture since at least 1962, the earliest date for which aerial data is present.

The proposed project includes the purchase of Farm in the City, the construction and installation of a new farm in the city infrastructure and water and electrical connections. The new Farm in the City container, located on the western half of the parcel, is 320 square feet in size (40 feet by 8 feet) with a total height of approximately 9.5 feet. The greenhouse will be built on 6 round concrete block anchors each 9 square feet (3 feet by 3 feet) and 3 feet in height extending 2 feet deep into ground, to be the container's foundation. With the help of Luma/PREPA electrical and water connections, one foot underground, include a new electrical meter approximately 9.17 square feet and 10 inches in height and 15 feet of PVC to connect to the neighborhood well that is located off property.


There are 2 location options for the new Farm in the City that are located along the eastern boundary of the western parcel. Option 1 is 28 feet off the road near the entrance to the property and option 2 is 95 feet northwest of the first, directly west of the existing house. All potential location areas are currently undeveloped. There is a palm, small trees and some brush that needs to be removed before the container is installed. Both project location options result in minimal ground disturbance and vegetation removal, in an area already zoned as rustic lands.

**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 concrete block anchors for the foundation and the installation of the utilities 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 (ICP) which shows that there are no reported archaeological materials within a half-mile (mi) radius of the project location. One (1) study of cultural resources has been conducted within the 0.5 mi review


|   |   |
|---|---|
| <b>PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM</b><br><b>REGROW PUERTO RICO PROGRAM</b><br><b>Section 106 NHPA Effect Determination</b> | <br><small>GOVERNMENT OF PUERTO RICO<br/>DEPARTMENT OF HOUSING</small> |
| <b>Applicant: Caribbean Greenery Farm, LLC</b>  |   |
| <b>Case ID: PR-RGRW-03677</b>   | <b>City: Hatillo</b>  |

radius with no cultural resources found. ICP-CAT-HT-15-11-05 located 0.02 mi southeast of the project location, was conducted in 2015 for a new water distribution system following highway PR-134. The proposed project is located in the northwestern region of Puerto Rico at an elevation of 881.9 feet (ft; 268.5 meters [m]) above mean sea level. Per the USGS/NRCS Web Soil Survey, the project area crosses four mapped soil series: CmF2 (Colinas cobbly clay loam, 20 to 60 percent slopes eroded); MoD2 (Moca clay, 12 to 20 percent slopes, eroded); PhC2 (Perchas clay, 2 to 12 percent slopes, eroded); and PhD2 (Perchas clay, 12 to 20 percent slopes, eroded). The project area APE is in the south-central region of the municipality of Hatillo. The general project area is located on a flat plain at the southern base of a mountain range. The closest freshwater source is an unnamed stream, located 0.32 mi (0.54 kilometer [km]) southwest of the project area. The Atlantic coast is approximately 8 mi (12.8 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. One cultural resource survey has been conducted within 0.5 mile of the project area. ICP-CAT-HT-15-11-05 was conducted in 2015 for a new water distribution system following highway PR-134. 0.02 mi southeast of the project location. There were no historic resources found in this survey.

The project area is in a suburban area of Hatillo, approximately 0.5-mile northeast of the town of Bayaney. The parcel area has been cleared previously and occurs within a cluster of homes with high fencing and residential landscaping including palms, gumbo limbo trees, and other tropical bushes, trees, and flowers. The project includes the purchase of a Farm in the City, including a 320-foot greenhouse within the property’s fence line. The two proposed locations for the project include behind (northwest) of the primary residence between the residence and the back fence line, and to the southeast of the primary residence, along the fence line of residence set back from the fence lining the street. The property first appears on historic aerials in 2003, which accords with the property owner’s statement that the building was built in the 1990s. The primary residence does not appear on the next available Google Earth aerial imagery in 1993 (googleearthpro.com). Available aerials on Historic Aerials (<https://www.historicaerials.com/viewer>) date up to

|   |   |
|---|---|
| <b>PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM</b><br><b>REGROW PUERTO RICO PROGRAM</b><br><b>Section 106 NHPA Effect Determination</b> | <br>GOVERNMENT OF PUERTO RICO<br>DEPARTMENT OF HOUSING |
| <b>Applicant: Caribbean Greenery Farm, LLC</b>  |   |
| <b>Case ID: PR-RGRW-03677</b>   | <b>City: Hatillo</b>  |


1972, and those on USGS Earth Explorer (<https://earthexplorer.usgs.gov>) date up to 1970. Historic aeriels and inspection of building materials, make, and design, indicate a date of construction for this property to be c. 1995. All additional structures appear on this parcel after this date in Google Earth imagery. Though the buildings across the street appear on the 1993 Google Earth imagery, they do not appear on 1977 USGS Aeriels. Further, the property owner’s information and architectural historian review of building materials, design, and construction indicate a DOC of c. 1985. As the project is situated on a parcel of a non-historic age residence, the surrounding structures are not of historic age, and due to the distance from other housing and the vegetation that is covering the lot, no historic properties will be affected by the project.

### Determination

The following historic properties have been identified within the APE:

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

Based on the results of our historic property identification efforts, the Program has determined that project actions will not affect historic properties that compose the Area of Potential Effect. The project area is not within or adjacent to the boundaries of a National Register of Historic Places (NRHP)-eligible or listed historic district or Traditional Urban Center. There are no reported archaeological materials or significant cultural properties within a half-mile radius of the proposed project location. No known archaeological sites or NRHP listed/eligible historic properties are within or adjacent to the property or the parcel in which the Area of Potential Effect of case PR-RGRW-03677 is located. The closest freshwater body is approximately 0.32 mi (0.54 km) southwest of the project area. The size of the proposed project activities is very small (0.007346 acres) and construction of public roads, residential structures, agricultural infrastructure and cultivated fields has impacted the surrounding terrain. Therefore, no historic properties will be affected by the proposed project activities.

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| PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM<br>REGROW PUERTO RICO PROGRAM<br>Section 106 NHPA Effect Determination |  GOVERNMENT OF PUERTO RICO<br>DEPARTMENT OF HOUSING |
| Applicant: Caribbean Greenery Farm, LLC  |  |
| Case ID: PR-RGRW-03677   | City: 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:<br><br><input type="checkbox"/> <b>Concurs</b> with the information provided.<br><input type="checkbox"/> <b>Does not concur</b> with the information provided. |       |
| <b>Comments:</b><br><br><br><br>   |       |
| Carlos Rubio-Cancela<br>State Historic Preservation Officer  | Date: |

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



REGROW PROGRAM

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

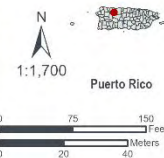
Applicant ID: PR-RGRW-03677



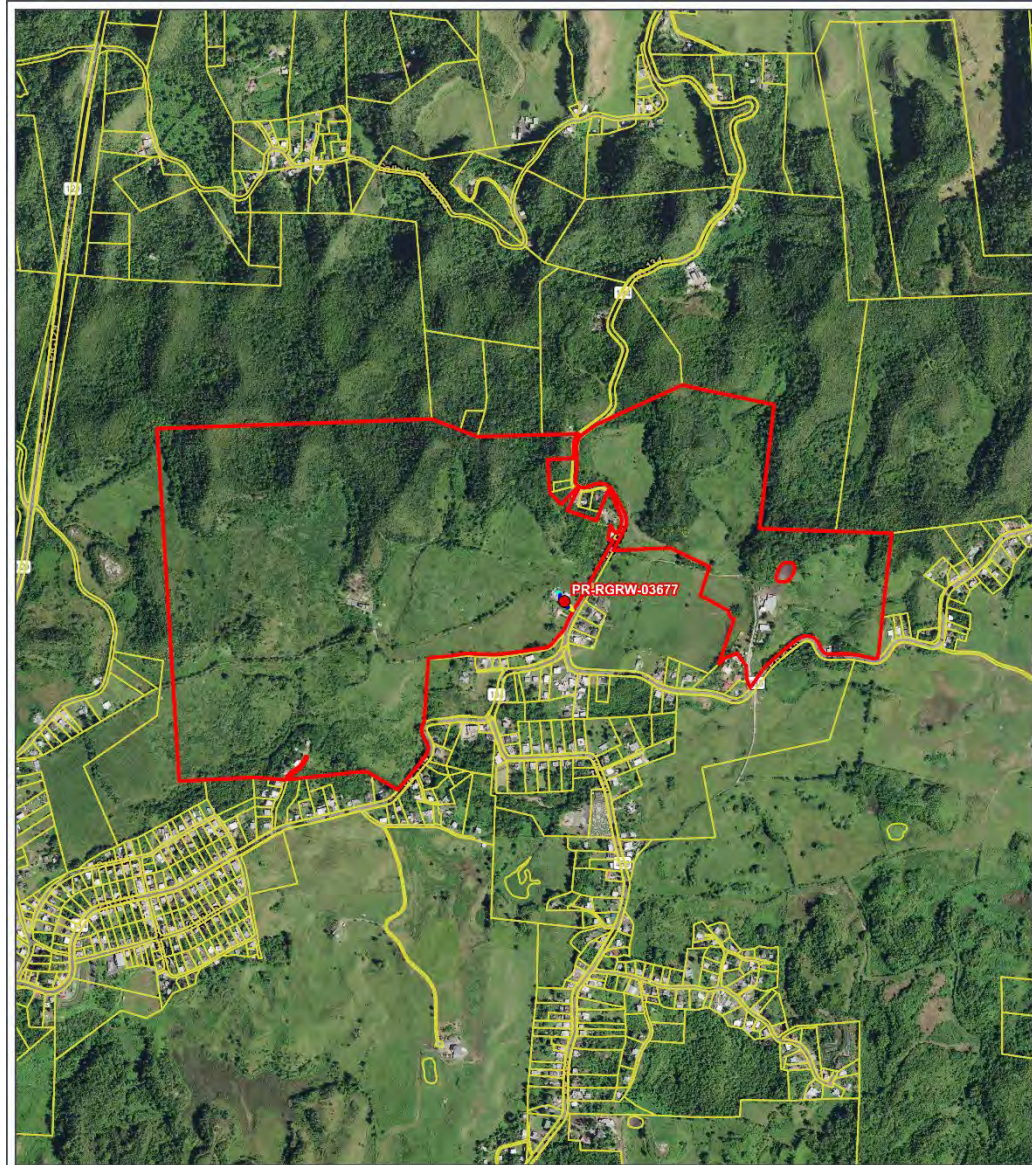
- Site
- ▭ Site Parcel
- ▭ Project Footprint (Option)
- ▭ Underground Waterline
- ▭ Underground Electrical Line
- ▭ APE (Buffer (15-meters))

Carr. 134 km 30 Bo Bayaney  
 Hatillo, Puerto Rico 00659  
 Parcel ID: 075-000-068-45-000  
 Parcel Center:  
 66.781712°W 18.377266°N

Base Map: USA NAIP Imagery  
 Imagery Year: 2022  
 Updated: 3/28/2024  
 Layout: APE  
 Aprx: 72428\_RegrowTier2Maps



### Project (Parcel) Location - Aerial Map



REGROW PROGRAM

**Figure A-2:  
Site Vicinity**

Applicant ID: PR-RGRW-03677



- Site
- ▭ Site Parcel
- ▭ Project Footprint (Option)
- ▭ Underground Electrical Line
- ▭ Underground Pipe

Carr. 134 km 30 Bo Bayaney  
Hatillo, Puerto Rico 00659

Parcel ID: 075-000-008-45-000  
Parcel Center:  
66.782656°W 18.377578°N



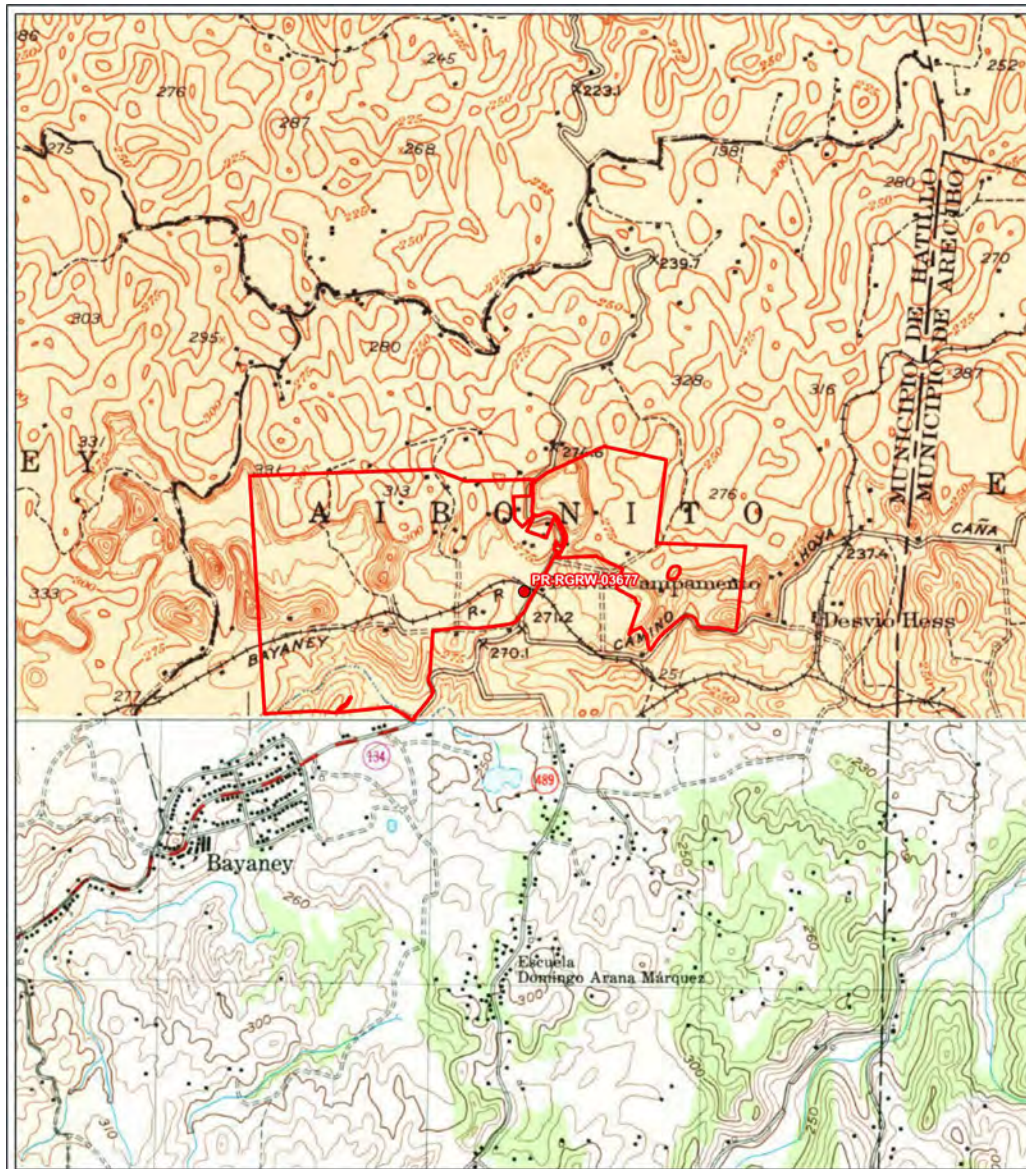
1:13,500



Base Map: USA NAIP Imagery  
Imagery Year: 2022  
Updated: 3/28/2024

Layout: Site Vicinity  
Appr: 72428\_RegrowTier2Maps

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



REGROW PROGRAM

**USGS Topographic Map**

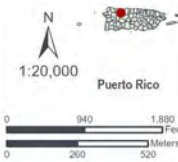
Applicant ID: PR-RGRW-03677



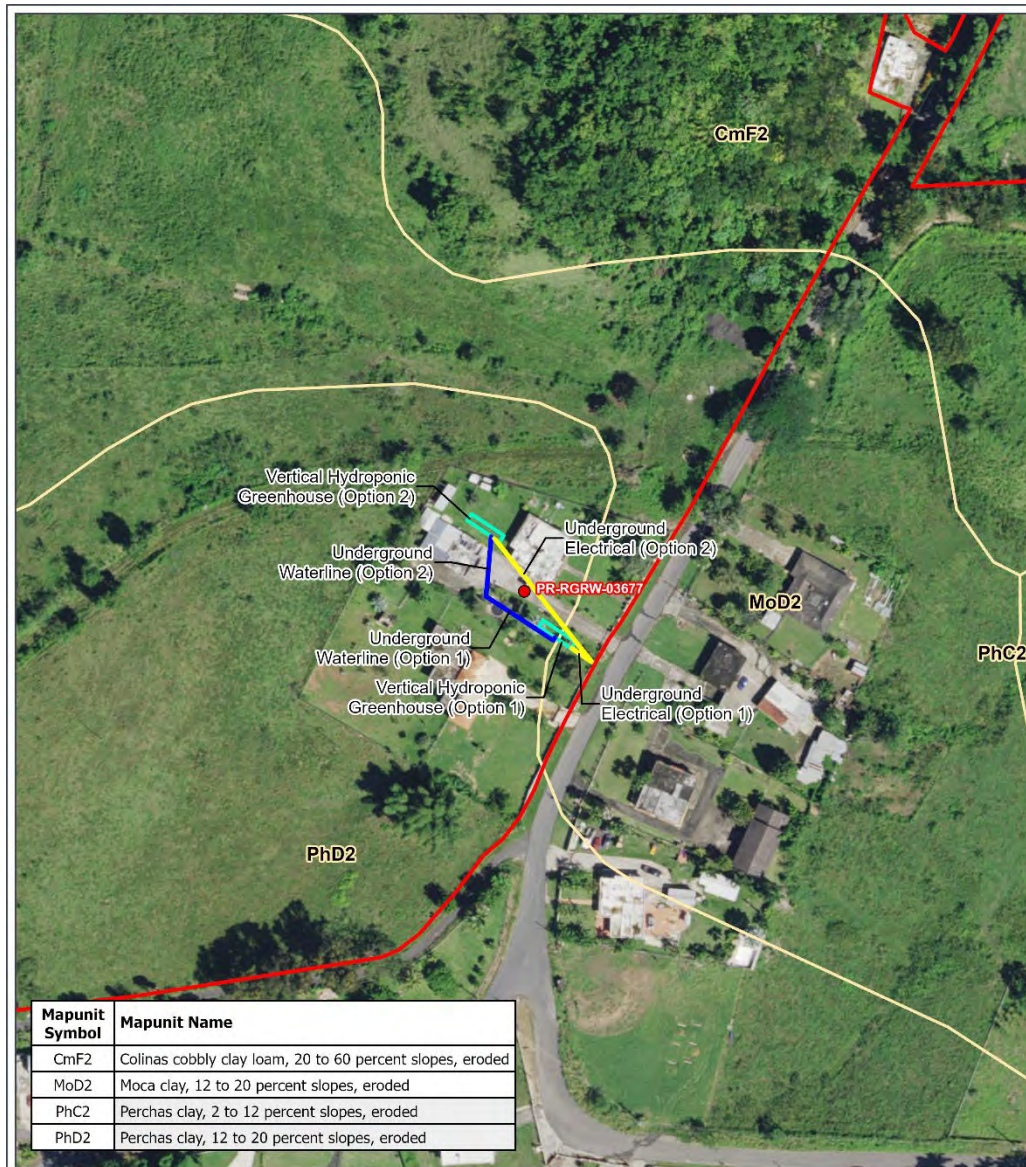
- Site
- Site Parcel

Carr. 134 km 30 Bo Bayaney  
Hatillo, Puerto Rico 00659  
Parcel ID: 075-000-008-45-000  
Parcel Center:  
66.781723°W 18.377291°N

Base Map: ESRI ArcGIS Online,  
accessed January 2024  
Updated: 1/3/2024  
Layout: USGS Topographic Map  
Aprx: 72428\_ReGrowTier2Maps



### Project (Parcel) Location – Soils Map



| Mapunit Symbol | Mapunit Name  |
|----------------|---|
| CmF2           | Colinas cobbly clay loam, 20 to 60 percent slopes, eroded |
| MoD2           | Moca clay, 12 to 20 percent slopes, eroded                |
| PhC2           | Perchas clay, 2 to 12 percent slopes, eroded              |
| PhD2           | Perchas clay, 12 to 20 percent slopes, eroded             |

REGROW PROGRAM

**USDA Soils Map**

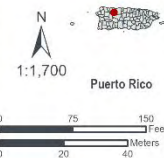
Applicant ID: PR-RGRW-03677



- Site
- ▭ Site Parcel
- ▭ Project Footprint (Option)
- ▭ Underground Waterline
- ▭ Underground Electrical Line
- ▭ Soil Mapunit

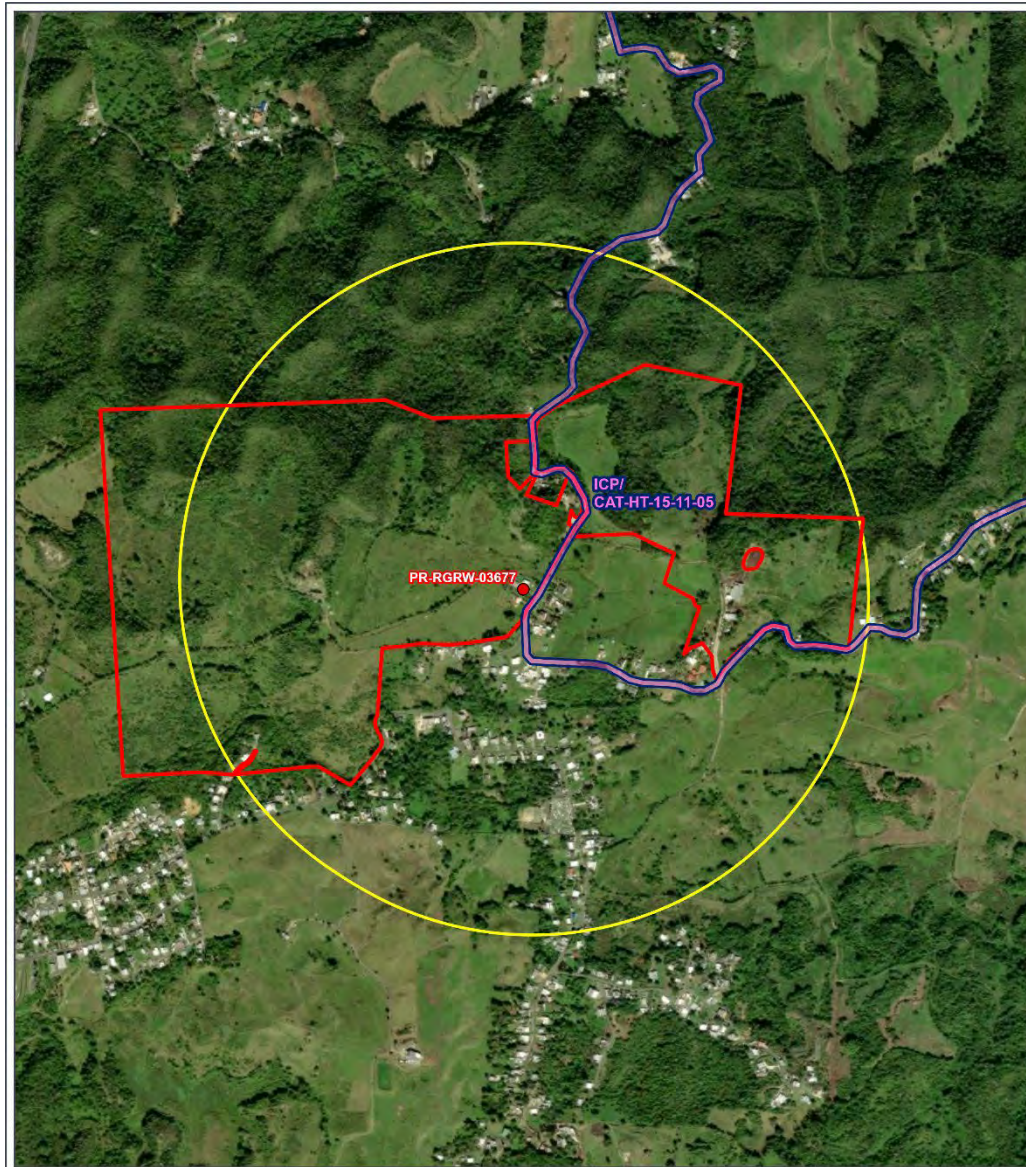
Carr. 134 km 30 Bo Bayaney  
Hatillo, Puerto Rico 00659  
Parcel ID: 075-000-008-45-000  
Parcel Center:  
66.781712°W 18.377266°N

Data Source: <https://websitesurvey.nrcs.usda.gov/app/>  
Base Map: USA N/AIP Imagery  
Imagery Year: 2022  
Updated: 3/28/2024  
Layout: Soils  
Aprx: 72428\_RegrowTier2Maps





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



REGROW PROGRAM

#### Previous Investigation Map

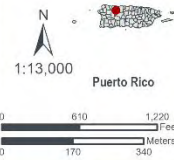
Applicant ID: PR-RGRW-03677



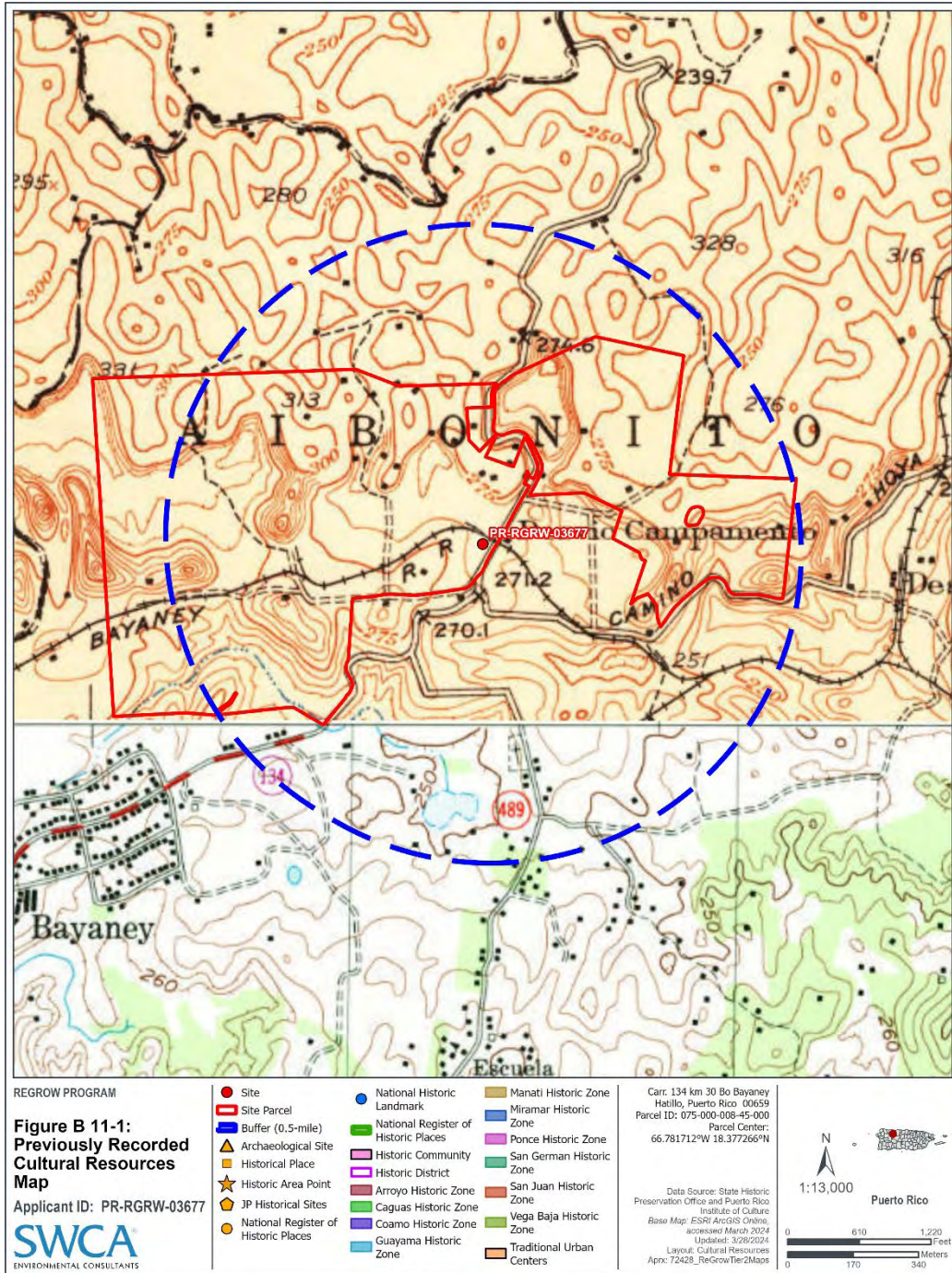
- Site
- Site Parcel
- Project Footprint (Option)
- Buffer (0.5-mile)
- Previously Recorded Survey
- MIPR Arqueologia
- Traditional Urban Centers

Carr. 134 km 30 Bo Bayaney  
 Hatillo, Puerto Rico 00659  
 Parcel ID: 075-000-008-45-000  
 Parcel Center:  
 66.781712°W 18.377266°N

Data Source: State Historic  
 Preservation Office and Puerto Rico  
 Institute of Culture  
 Base Map: ESRI ArcGIS Online,  
 accessed March 2024  
 Updated: 3/28/2024  
 Layout: Previous Investigation  
 Aprk: 72428\_RuGrowTier2Maps



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



Applicant: Caribbean Greenery Farm, LLC

Case ID: PR-RGRW-03677

City: Hatillo

### Photograph Key



Applicant: Caribbean Greenery Farm, LLC

Case ID: PR-RGRW-03677

City: Hatillo

|   |                            |
|---|----------------------------|
| <b>Photo #:</b><br>01                                       | <b>Date:</b><br>01/02/2024 |
| <b>Photo Direction:</b><br>Northwest                        |                            |
| <b>Description:</b><br>Applicant's house built around 1999. |                            |



|   |                            |
|---|----------------------------|
| <b>Photo #:</b><br>02   | <b>Date:</b><br>01/02/2024 |
| <b>Photo Direction:</b><br>South  |                            |
| <b>Description:</b><br>Overview of site location for vertical hydroponic greenhouse 40x8x9.5ft. |                            |



Applicant: Caribbean Greenery Farm, LLC

Case ID: PR-RGRW-03677

City: Hatillo

**Photo #:**  
03

**Date:**  
01/02/2024

**Photo Direction:**  
North

**Description:**  
Center of site location for vertical hydroponic greenhouse measuring 40x8x9.5ft.



**Photo #:**  
04

**Date:**  
01/02/2024

**Photo Direction:**  
South

**Description:**  
Neighboring house built around 1990s.



PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM

REGROW PUERTO RICO PROGRAM

Section 106 NHPA Effect Determination



GOVERNMENT OF PUERTO RICO  
DEPARTMENT OF HOUSING

Applicant: Caribbean Greenery Farm, LLC

Case ID: PR-RGRW-03677

City: Hatillo

**Photo #:**  
05

**Date:**  
01/02/20  
24

**Photo Direction:**  
Southeast





October 20, 2022

**Arch. Carlos A. Rubio Cancela**

Executive Director

State Historic Preservation Officer

Cuartel de Ballajá Bldg.

San Juan, Puerto Rico

**Re: Authorization to Submit Documents**

Dear Arch. Rubio Cancela:

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

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

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

Cordially,

Juan C. Pérez Bofill, P.E. M.Eng

Director of Disaster Recovery

CDBG DR-MIT

**Attachment 12**  
**Sole Source Aquifer 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.

## **Sole Source Aquifers (CEST and EA) - PARTNER**

<https://www.hudexchange.info/environmental-review/sole-source-aquifers>

### **1. Is the project located on a sole source aquifer (SSA)<sup>1</sup>?**

No → *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide documentation used to make your determination, such as a map of your project or jurisdiction in relation to the nearest SSA.*

Yes → *Continue to Question 2.*

### **2. Does the project consist solely of acquisition, leasing, or rehabilitation of an existing building(s)?**

Yes → *The review is in compliance with this section. Continue to the Worksheet Summary below.*

No → *Continue to Question 3.*

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

Contact your Field or Regional Environmental Officer or visit the HUD webpage at the link above to determine if an MOU or agreement exists in your area.

Yes → *Continue to Question 4.*

No → *Continue to Question 5.*

### **4. Does your MOU or working agreement exclude your project from further review?**

Yes → *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide documentation used to make your determination and document where your project fits within the MOU or agreement.*

No → *Continue to Question 5.*

### **5. Will the proposed project contaminate the aquifer and create a significant hazard to public health?**

Consult with your Regional EPA Office. Your consultation request should include detailed information about your proposed project and its relationship to the aquifer and associated streamflow source area.

---

<sup>1</sup> A sole source aquifer is defined as an aquifer that supplies at least 50 percent of the drinking water consumed in the area overlying the aquifer. This includes streamflow source areas, which are upstream areas of losing streams that flow into the recharge area.

EPA will also want to know about water, storm water and waste water at the proposed project. Follow your MOU or working agreement or contact your Regional EPA office for specific information you may need to provide. EPA may request additional information if impacts to the aquifer are questionable after this information is submitted for review.

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

Yes → *The RE/HUD will work with EPA to develop mitigation measures. If mitigation measures are approved, attach correspondence with EPA and include the mitigation measures in your environmental review documents and project contracts. If EPA determines that the project continues to pose a significant risk to the aquifer, federal financial assistance must be denied. Continue to Question 6.*

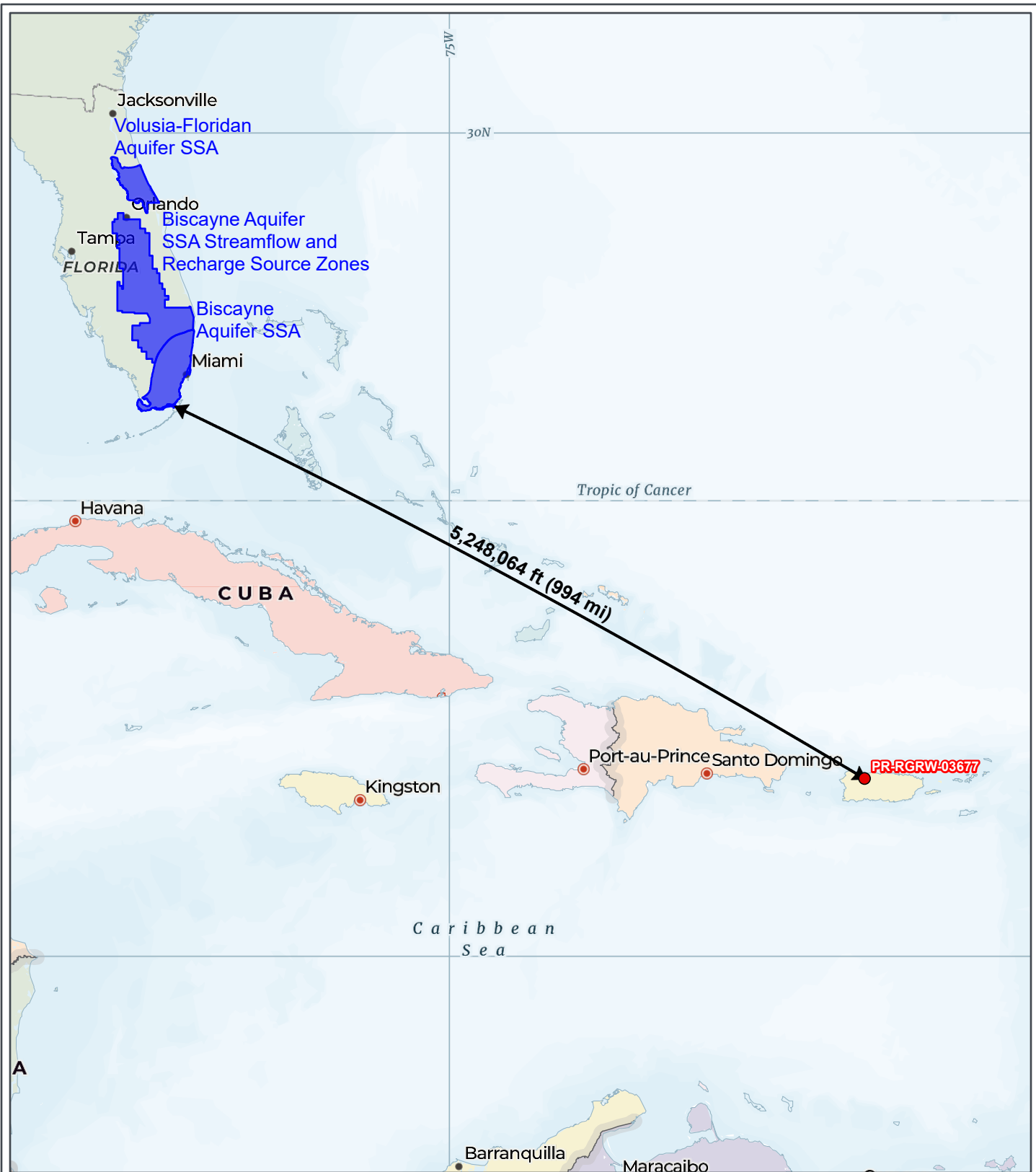
### **Worksheet Summary**

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

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

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

According to the USEPA's Source Water Protection, Sole Source Aquifer Protection Program, there are no sole source aquifers in Puerto Rico. No further evaluation is required. The project is in compliance with the Safe Drinking Water Act.



REGROW PROGRAM

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

Applicant ID: PR-RGRW-03677

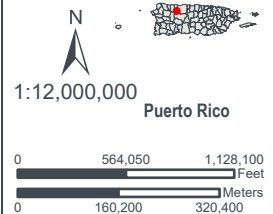


- Site
- Sole Source Aquifers

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

Carr. 134 km 30 Bo Bayaney  
 Hatillo, Puerto Rico 00659  
 Parcel ID: 075-000-008-45-000  
 Parcel Center:  
 66.781712°W 18.377266°N

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



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



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

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## 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.

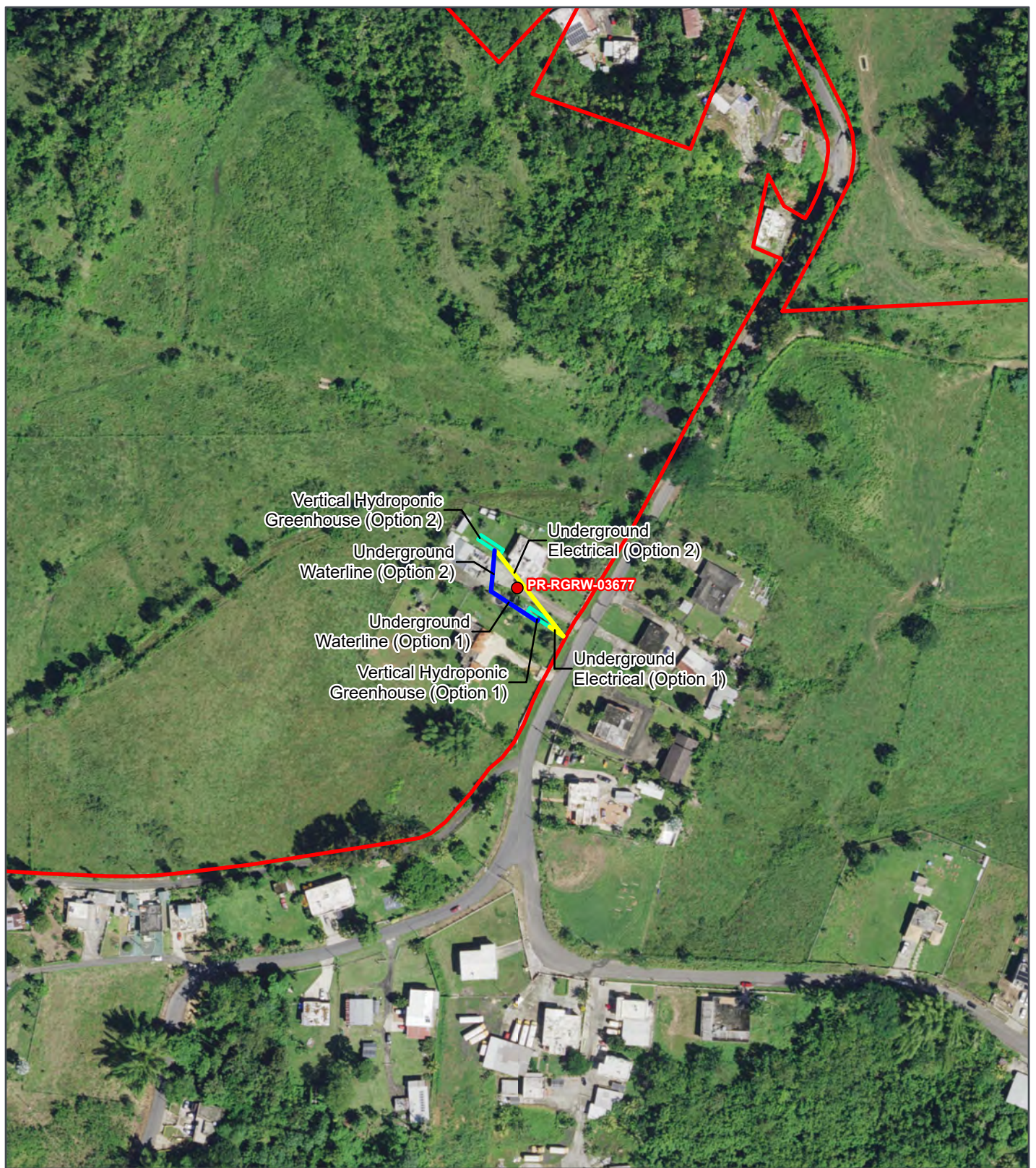
### **Worksheet Summary**

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 site was reviewed for wetlands using the U.S. Fish and Wildlife Service (USFWS) Wetland Inventory Mapper and a visual confirmation during the field site inspection. No wetlands were determined to be present on site. No further evaluation is required. The project is in compliance with Executive Order 11990.



REGROW PROGRAM

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

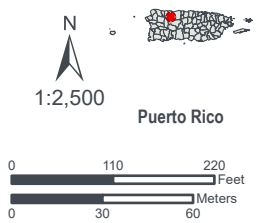
Applicant ID: PR-RGRW-03677



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

Carr. 134 km 30 Bo Bayaney  
Hatillo, Puerto Rico 00659  
Parcel ID: 075-000-008-45-000  
Parcel Center:  
66.781712°W 18.377266°N

Data Source: <https://apps.nationalmap.gov/downloader/#/>  
<https://www.fws.gov/program/national-wetlands-inventory/data-download>  
Base Map: USA NAIP Imagery  
Imagery Year: 2022  
Updated: 3/28/2024  
Layout: Wetlands Protection



## **Attachment 14**

# **Wild and Scenic Rivers Partner Worksheet and Wild and Scenic Rivers Map**



## Wild and Scenic Rivers (CEST and EA) – PARTNER

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

| General requirements  | Legislation   | Regulation      |
|---|---|-----------------|
| The Wild and Scenic Rivers Act provides federal protection for certain free-flowing, wild, scenic and recreational rivers designated as components or potential components of the National Wild and Scenic Rivers System (NWSRS) from the effects of construction or development. | The Wild and Scenic Rivers Act (16 U.S.C. 1271-1287), particularly section 7(b) and (c) (16 U.S.C. 1278(b) and (c)) | 36 CFR Part 297 |
| References  |   |                 |
| <a href="https://www.hudexchange.info/environmental-review/wild-and-scenic-rivers">https://www.hudexchange.info/environmental-review/wild-and-scenic-rivers</a>   |   |                 |

### 1. Is your project within proximity of a NWSRS river as defined below?

**Wild & Scenic Rivers:** These rivers or river segments have been designated by Congress or by states (with the concurrence of the Secretary of the Interior) as wild, scenic, or recreational

Study Rivers: These rivers or river segments are being studied as a potential component of the Wild & Scenic River system.

Nationwide Rivers Inventory (NRI): The National Park Service has compiled and maintains the NRI, a register of river segments that potentially qualify as national wild, scenic, or recreational river areas

No

→ *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Provide documentation used to make your determination, such as a map identifying the project site and its surrounding area or a list of rivers in your region in the Screen Summary at the conclusion of this screen.*

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

→ *Continue to Question 2.*

**2. Could the project do *any* of the following?**

- Have a direct and adverse effect within Wild and Scenic River Boundaries,
- Invade the area or unreasonably diminish the river outside Wild and Scenic River Boundaries, or
- Have an adverse effect on the natural, cultural, and/or recreational values of a NRI segment.

Consultation with the appropriate federal/state/local/tribal Managing Agency(s) is required, pursuant to Section 7 of the Act, to determine if the proposed project may have an adverse effect on a Wild & Scenic River or a Study River and, if so, to determine the appropriate avoidance or mitigation measures.

Note: Concurrence may be assumed if the Managing Agency does not respond within 30 days; however, you are still obligated to avoid or mitigate adverse effects on the rivers identified in the NWSRS

No, the Managing Agency has concurred that the proposed project will not alter, directly, or indirectly, any of the characteristics that qualifies or potentially qualifies the river for inclusion in the NWSRS.

→ *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Provide documentation of the consultation (including the Managing Agency's concurrence) and any other documentation used to make your determination.*

Yes, the Managing Agency was consulted and the proposed project may alter, directly, or indirectly, any of the characteristics that qualifies or potentially qualifies the river for inclusion in the NWSRS.

→ *The RE/HUD must work with the Managing Agency to identify mitigation measures to mitigate the impact or effect of the project on the river.*

## **Worksheet Summary**

### **Compliance Determination**

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

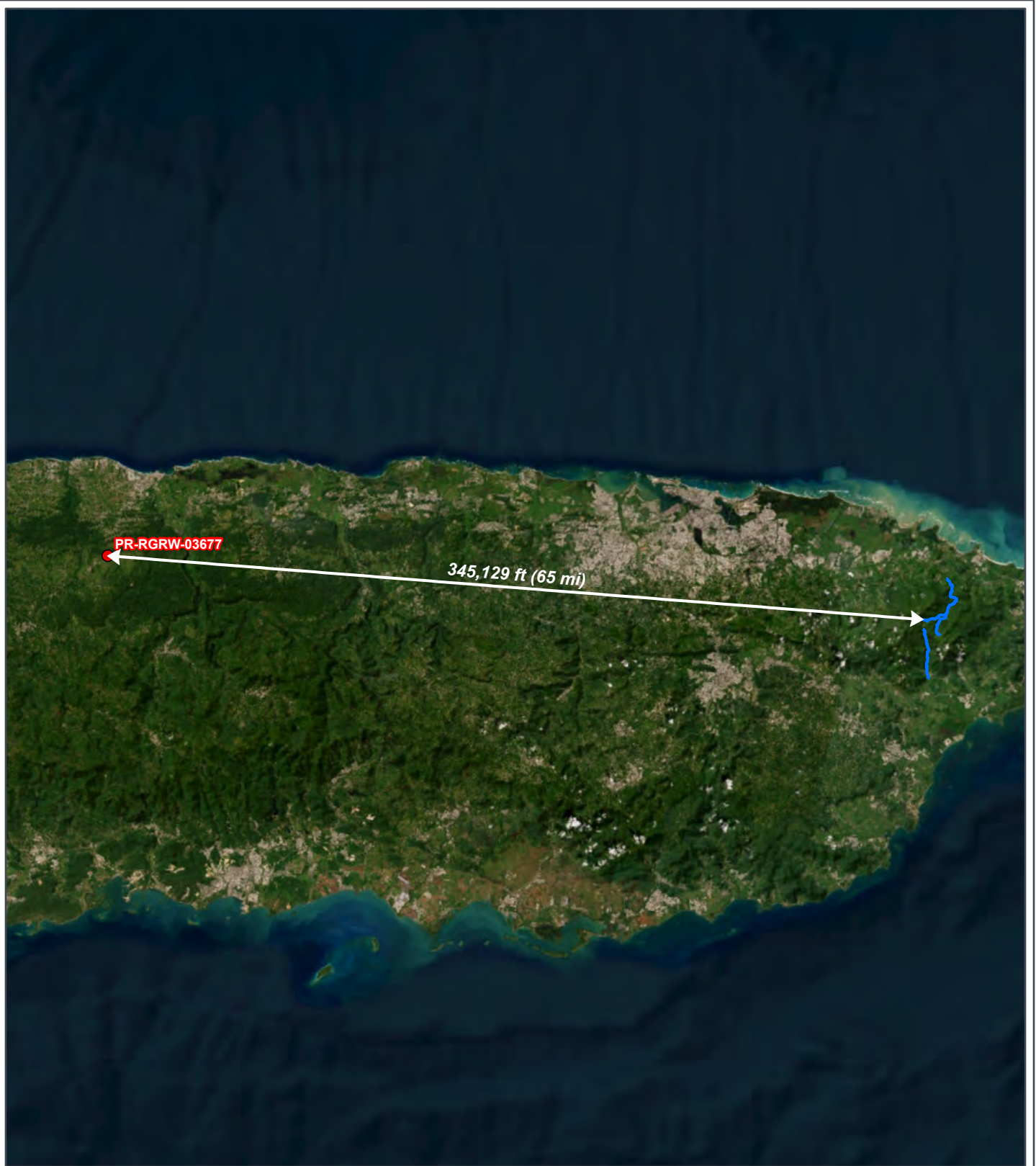
- Map panel numbers and dates
- Names of all consulted parties and relevant consultation dates
- Names of plans or reports and relevant page numbers
- Any additional requirements specific to your region

A review of the USFWS National Wild and Scenic River mapper identified no Wild and Scenic Rivers or National Rivers Inventory (NRI) rivers present in Hatillo Municipio. The closest Wild and Scenic River segment is located 345,134 feet (65 miles) from the project site. No further evaluation is required. The project is in compliance with the Wild and Scenic Rivers Act.

**Are formal compliance steps or mitigation required?**

Yes

No



REGROW PROGRAM

**Figure B 14-1:  
National Wild and  
Scenic River Map**

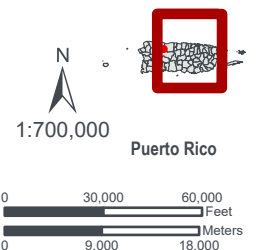
Applicant ID: PR-RGRW-03677



- Site
- National Wild and Scenic River

Carr. 134 km 30 Bo Bayaney  
Hatillo, Puerto Rico 00659  
Parcel ID: 075-000-008-45-000  
Parcel Center:  
66.781712°W 18.377266°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 March 2024  
Updated: 3/28/2024



**Attachment 15**  
**Environmental Justice Partner Worksheet**  
**and EJScreen Report**



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

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## 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 à *Continue to Question 2.*

No à *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.

à *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.

à *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 18.368728,-66.794571  
 Population: 1,612  
 Area in square miles: 3.14

A3 Landscape

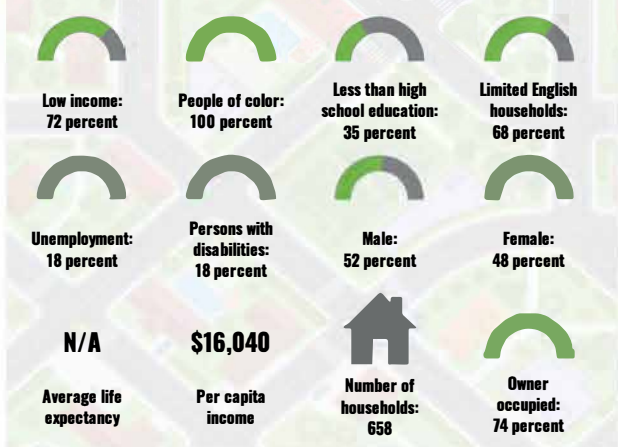


May 8, 2024  
 Search Result (point)  
 1:1,128  
 0 0.01 0.02 0.05 mi  
 0 0.01 0.02 0.05 km  
EPA Community Maps Contributor: Esri, TomTom, IGN, Freemapbox, OpenStreetMap contributors, Mapbox, Mapbox Data, USGS, FIPS, US Census Bureau, GPSTAG

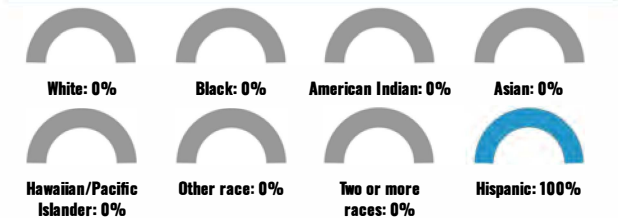
### LANGUAGES SPOKEN AT HOME

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

### COMMUNITY INFORMATION



### 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.



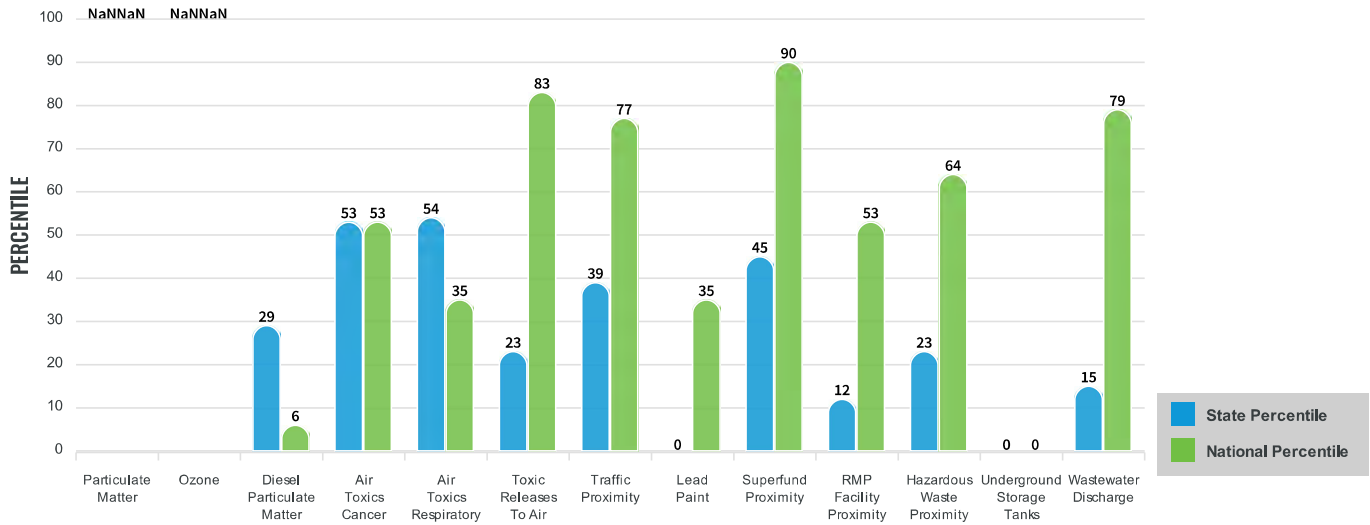
# Environmental Justice & Supplemental Indexes

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.

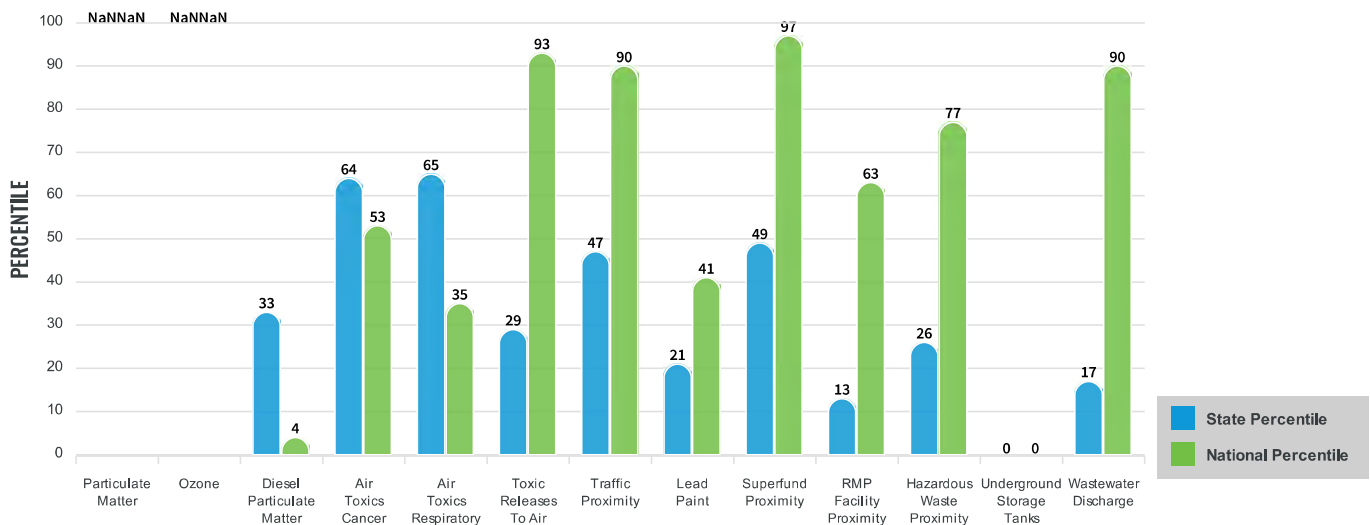
### EJ INDEXES FOR THE SELECTED LOCATION



## 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 18.368728,-66.794571

# 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 (µg/m <sup>3</sup> )                           | 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 (µg/m <sup>3</sup> )                    | 0.0221  | 0.0667        | 29                  | 0.261       | 1                 |
| Air Toxics Cancer Risk* (lifetime risk per million)               | 20      | 20            | 15                  | 25          | 5                 |
| Air Toxics Respiratory HI*  | 0.2     | 0.19          | 17                  | 0.31        | 4                 |
| Toxic Releases to Air   | 320     | 4,300         | 21                  | 4,600       | 39                |
| Traffic Proximity (daily traffic count/distance to road)          | 46      | 180           | 39                  | 210         | 38                |
| Lead Paint (% Pre-1960 Housing)                                   | 0.035   | 0.16          | 27                  | 0.3         | 22                |
| Superfund Proximity (site count/km distance)                      | 0.071   | 0.15          | 43                  | 0.13        | 55                |
| RMP Facility Proximity (facility count/km distance)               | 0.065   | 0.47          | 11                  | 0.43        | 16                |
| Hazardous Waste Proximity (facility count/km distance)            | 0.12    | 0.76          | 22                  | 1.9         | 24                |
| Underground Storage Tanks (count/km <sup>2</sup> )                | 0       | 1.7           | 0                   | 3.9         | 0                 |
| Wastewater Discharge (toxicity-weighted concentration/m distance) | 0.00019 | 2.3           | 15                  | 22          | 35                |
| <b>SOCIOECONOMIC INDICATORS</b>                                   |         |               |                     |             |                   |
| Demographic Index   | 86%     | 83%           | 45                  | 35%         | 97                |
| Supplemental Demographic Index                                    | 48%     | 43%           | 59                  | 14%         | 99                |
| People of Color   | 100%    | 96%           | 31                  | 39%         | 98                |
| Low Income  | 72%     | 70%           | 44                  | 31%         | 95                |
| Unemployment Rate   | 18%     | 15%           | 66                  | 6%          | 94                |
| Limited English Speaking Households                               | 68%     | 67%           | 45                  | 5%          | 99                |
| Less Than High School Education                                   | 35%     | 21%           | 84                  | 12%         | 94                |
| Under Age 5   | 1%      | 4%            | 30                  | 6%          | 15                |
| Over Age 64   | 34%     | 22%           | 87                  | 17%         | 92                |
| Low Life Expectancy   | N/A     | N/A%          | N/A                 | 20%         | N/A               |

\*Diesel particulate matter, air toxics cancer risk, and air toxics respiratory hazard index are from the EPA's Air Toxics Data Update, which is the Agency's ongoing, comprehensive evaluation of air toxics in the United States. This effort aims to prioritize air toxics, emission sources, and locations of interest for further study. It is important to remember that the air toxics data presented here provide broad estimates of health risks over geographic areas of the country, not definitive risks to specific individuals or locations. Cancer risks and hazard indices from the Air Toxics Data Update are reported to one significant figure and any additional significant figures here are due to rounding. More information on the Air Toxics Data Update can be found at: <https://www.epa.gov/haps/air-toxics-data-update>.

**Sites reporting to EPA within defined area:**

|  |   |
|--|---|
| Superfund .....  | 0 |
| Hazardous Waste, Treatment, Storage, and Disposal Facilities ..... | 0 |
| Water Dischargers .....  | 0 |
| Air Pollution .....  | 0 |
| Brownfields .....  | 0 |
| Toxic Release Inventory .....                                      | 0 |

**Other community features within defined area:**

|                         |   |
|-------------------------|---|
| Schools .....           | 1 |
| 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 18.368728,-66.794571

## EJScreen Environmental and Socioeconomic Indicators Data

| HEALTH INDICATORS         |       |               |                  |            |               |
|---------------------------|-------|---------------|------------------|------------|---------------|
| INDICATOR                 | VALUE | STATE AVERAGE | STATE PERCENTILE | US AVERAGE | US PERCENTILE |
| Low Life Expectancy       | N/A   | N/A           | N/A              | 20%        | N/A           |
| Heart Disease             | N/A   | N/A           | N/A              | 6.1        | N/A           |
| Asthma                    | N/A   | N/A           | N/A              | 10         | N/A           |
| Cancer                    | N/A   | N/A           | N/A              | 6.1        | N/A           |
| Persons with Disabilities | 14.2% | 21.6%         | 15               | 13.4%      | 60            |

| CLIMATE INDICATORS |       |               |                  |            |               |
|--------------------|-------|---------------|------------------|------------|---------------|
| INDICATOR          | VALUE | STATE AVERAGE | STATE PERCENTILE | US AVERAGE | US PERCENTILE |
| Flood Risk         | N/A   | N/A           | N/A              | 12%        | N/A           |
| Wildfire Risk      | N/A   | N/A           | N/A              | 14%        | N/A           |

| CRITICAL SERVICE GAPS    |       |               |                  |            |               |
|--------------------------|-------|---------------|------------------|------------|---------------|
| INDICATOR                | VALUE | STATE AVERAGE | STATE PERCENTILE | US AVERAGE | US PERCENTILE |
| Broadband Internet       | 48%   | 32%           | 79               | 14%        | 97            |
| Lack of Health Insurance | 5%    | 7%            | 28               | 9%         | 33            |
| 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           |

Report for 1 mile Ring Centered at 18.368728,-66.794571

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



|                        |                                       |                   |          |
|------------------------|---------------------------------------|-------------------|----------|
| <b>Applicant Name:</b> | Emanuel Espinosa Arce                 |                   |          |
| <b>App ID:</b>         | PR-RGRW-03677                         | <b>RFA</b>        | 100      |
| <b>Project Name:</b>   | Caribbean Greenery Farm               | <b>Municipio:</b> | Hatillo  |
| <b>Address:</b>        | Carr. 134 KM 30 Bo. Bayaney, Hatillo, | <b>Zip Code:</b>  | 00659    |
| <b>Parcel ID(s):</b>   | XXX                                   | <b>Lat:</b>       | 18.37726 |
| <b>Project Budget:</b> | \$\$\$\$                              | <b>Long:</b>      | -66.7862 |

**\*\*\*Pay attention to the color coding – this will indicate what you are responsible for filling in\*\*\***

| Task:  | Name:                       | Date Completed: | Notes:  |
|--|-----------------------------|-----------------|---|
| ➤ <b>Pre-Site Inspector</b>  | Armando Ramos               | 12/29/2023      |   |
| ❖ <b>Site-Inspector</b>  | Armando Ramos               | 01/02/2024      |   |
| <b>Communication Log:</b><br>(this is used by anyone who wants to record contact with the applicant) | Staff who called or emailed | Date & Time     | Form of communication (email, phone, etc) and which email /number/etc.used) |
|  | Armando Ramos               | 4:13pm          | Phone call  |
|  |                             |                 |   |
|  |                             |                 |   |

**Canopy Document Notes/Summary:**

|  |                       |     |          |     |          |     |
|--|-----------------------|-----|----------|-----|----------|-----|
| ▪ <b>EA Preparer</b>   | EA PREPARER NAME HERE |     |          |     |          |     |
| <b>Scope of Work from IUGF:</b>  | SCOPE OF WORK         |     |          |     |          |     |
| <ul style="list-style-type: none"> <li>- Example notes:</li> <li>- With the fertilizers/insecticides/etc. on this scale what is the plan for the water that runs off of the plants and out of the greenhouse – can this be a source of ground or water contamination?                             <ul style="list-style-type: none"> <li>○ Is there already an agriculture business of this type established here?</li> </ul> </li> <li>- Environmental Review Checklist                             <ul style="list-style-type: none"> <li>○ Reiterates the list in the intended use of grant funds and the RFA and also provides the aerial imagery with project area and project footprints; however no dimensions have been provided.</li> </ul> </li> </ul> |                       |     |          |     |          |     |
| ▪ <b>GIS review Wetlands?</b>  | within                | Y/N | next to  | Y/N | adjacent | Y/N |
| ❖ <b>Were any onsite wetlands identified?</b>  | Y/N                   |     |          |     |          |     |
| ❖ <b>Will project activities occur within any wetlands?</b>  | Y/N                   |     |          |     |          |     |
| ▪ <b>GIS review Floodplain?</b>  | Floodway              | Y/N | 100-year | Y/N | 500-year | Y/N |



|   |        |
|---|--------|
| ❖ Will project activities occur within the Floodway?            | Y/N/NA |
| ❖ Will project activities occur within the 100-year Floodplain? | Y/N/NA |

❖ Site-Visit Form

| ❖ General Site Conditions and Field Notes:   |                |   |     |
|--|----------------|---|-----|
| Does the address match the parcel location?  | Yes            | Does the lat/long match the parcel location?  | Yes |
| Comments on location:  |                |   |     |
| <u>Question</u>  | <u>Yes /No</u> | <u>Comments:</u>  |     |
| <b>Was property accessible by vehicle?</b>   | Yes            |   |     |
| <b>Were there any access issues?</b><br>Examples of access issues: Dogs, Locked gate, Traffic hazards, Uncooperative residents, Confrontational Neighbors,<br>*If no access issues please indicate with "None" | No             |   |     |
| <b>Are water wells present?</b> *please include lat/long of water well so it can be denoted on the sitemap   | No             | Water well is not in applicant's property. He uses a water well that is used by the community that is in a nearby farm. |     |
| <b>Are creeks or ponds present?</b><br>*please include lat/long of water well so it can be denoted on the sitemap  | No             |   |     |
| <b>Are any potential wetlands on-site or visible on adjacent parcel?</b> *please include lat/long of water well so it can be denoted on the sitemap  | No             |   |     |
| ❖ Parcel Conditions  |                |   |     |
| Note – for Any Yes answers specify type, contents, and location  |                |   |     |
| <b>Are commercial or industrial hazardous facilities at parcel or within visual sight?</b>   | No             | There are cattle farms nearby.  |     |



|   |                |   |
|---|----------------|---|
| <b>Are there signs of underground storage tanks?</b>  | Yes            | Applicant has 2 septic tanks in the property that were not visible. |
| <b>Are any above-ground tanks &gt;10 gallons present? If yes, what are the content and conditions of each tank?</b>   | Yes            | Propane gas tank.   |
| <b>Are 55-gallon drums present? If yes, what are the content and conditions of each tank?</b>                         | Yes            | 2 for trash disposal.   |
| <b>Are abandoned vehicles or electrical equipment present?</b>  | No             |   |
| <b>Are there any signs of illegal dumping within or next to the applicant parcel?</b>                                 | No             |   |
| <b>Is other potential environmentally hazardous debris on the parcel?</b>   | No             |   |
| <b>Is there non-environmentally hazardous debris on the parcel?</b>   | No             |   |
| <b>Are any leaks, soil stains, or stressed vegetation present? If yes, what is the source of the staining/stress?</b> | No             |   |
| <b>Are there any pungent, foul or noxious odors?</b>  | No             |   |
| <b>Other Components (e.g., gas tanks, cisterns, water tanks, abandoned vehicles, etc.)</b>                            |                |   |
| <b>Type</b>   | <b>Details</b> |   |
|   |                |   |
|   |                |   |
|   |                |   |
|   |                |   |
|   |                |   |
| <b>Are there any potentially hazardous trees that could fall?</b>   | No             |   |



|   |    |  |
|---|----|--|
| Are any bird nests visible?   | No | Common birds were seen, but no bird nests. |
| Are there any animal burrows visible?                               | No |  |
| Are there any signs of potential/preferred T&E habitat in the area? | No |  |

**Natural Resources** (e.g., endemic plants, endangered species, water bodies, wetlands, etc.) {include the ones inside the property and in direct sight view of the site location}

| Type or Species | Description |
|-----------------|-------------|
|                 |             |
|                 |             |
|                 |             |
|                 |             |

Are there any buildings in direct visual sight of the project locations? Take photo and ask applicant when the structure was built)

Yes

**Structures** (e.g., residences, commercial buildings, etc.) {include the ones inside the property and in direct sight view of the site location}

| Built Date    | Type of Construction |
|---------------|----------------------|
| Around 1999   | Concrete             |
| Around 2019   | Concrete             |
| Around 1990's | Concrete             |
|               |                      |
|               |                      |

❖ **Additional Environmental Hazards 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





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

Inspector Signature *Armando Ramos*

{Inspector Name} Armando Ramos

{Inspection Date} 01/02/2024

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



**Site-Visit Tips:**

**Tips before going to the field:**

1. Confirm with the applicant the appointment the same week, the day prior, or the same day hours before leaving for the site inspection.
2. Check the vehicle, and equipment (e.g. did you download the field map)
3. Don't leave the field without the contact information of the applicant, you may need directions along the way.
4. Make sure you read the Pre-Site Environmental Questionnaire.
  - a. It is good practice to ask the EA writer and the Project Manager (PM) if they want us to pay attention or to ask something in particular.
5. The RFA document might give you what the funds were requested for, this is important because sometimes they applicants will keep talking about the projects, but not mention who's going to pay what.
6. Sign the JHA; make sure the PM has the time to prepare the document.

**For the following always take pictures:**

1. If there is a sign of site preparation, please ask when it happened and what they did (e.g. grading, filling, etc.)
2. Tree clearing – ask them about permits, and what type of tree it is.
3. When an applicant is not sure about the exact location of the project, make sure you take several overview pictures or a central point with N, E, S, and W views.
  1. Please be prepared to let the applicant know where wetlands are located within their parcel boundaries. This will help ensure they do not try and plan to locate any activities within wetlands (and/or ensure we know which permits will be required).
4. Ask about any organic debris (grasses, dirt, etc.) and other materials such as construction materials, buckets, tarps, etc., and what they plan to do to them.
5. Structures with a direct view of the project (ask when it was built).
6. Natural resources – water bodies, burrows, birds or nests, wetlands, erosion, landslides, etc.


|  |                                 |
|--|---------------------------------|
| Project #: PR-RGRW-03677   | Photographer: Armando Ramos     |
| Location Address: Carr. 134 KM 30 Bo. Bayaney, Hatillo, PR 00659 | Coordinates: 18.37726, -66.7862 |

|   |                                |  |
|---|--------------------------------|--|
| <b>Photo #:</b><br>01   | <b>Date:</b><br>01/02/20<br>24 |  |
| <b>Photo Direction:</b><br>South  |                                |  |
| <b>Description:</b><br>Overview of site location for vertical hydroponic greenhouse 40x8x9.5ft. |                                |  |

|   |                                |  |
|---|--------------------------------|--|
| <b>Photo #:</b><br>02   | <b>Date:</b><br>01/02/20<br>24 |  |
| <b>Photo Direction:</b><br>West   |                                |  |
| <b>Description:</b><br>East corner of location for vertical hydroponic greenhouse 40x8x9.5ft. |                                |  |

|  |                                 |
|--|---------------------------------|
| Project #: PR-RGRW-03677   | Photographer: Armando Ramos     |
| Location Address: Carr. 134 KM 30 Bo. Bayaney, Hatillo, PR 00659 | Coordinates: 18.37726, -66.7862 |

|  |                                |  |
|--|--------------------------------|--|
| <b>Photo #:</b><br>03  | <b>Date:</b><br>01/02/20<br>24 |  |
| <b>Photo Direction:</b><br>North   |                                |  |
| <b>Description:</b><br>South corner of location for vertical hydroponic greenhouse 40x8x9.5ft. |                                |  |

|   |                                |   |
|---|--------------------------------|---|
| <b>Photo #:</b><br>04   | <b>Date:</b><br>01/02/20<br>24 |  |
| <b>Photo Direction:</b><br>East   |                                |   |
| <b>Description:</b><br>West corner of location for vertical hydroponic greenhouse 40x8x9.5ft. |                                |   |

|  |                                 |
|--|---------------------------------|
| Project #: PR-RGRW-03677   | Photographer: Armando Ramos     |
| Location Address: Carr. 134 KM 30 Bo. Bayaney, Hatillo, PR 00659 | Coordinates: 18.37726, -66.7862 |

|   |                                |  |
|---|--------------------------------|--|
| <b>Photo #:</b><br>05   | <b>Date:</b><br>01/02/20<br>24 |  |
| <b>Photo Direction:</b><br>North  |                                |  |
| <b>Description:</b><br>Center of site location for vertical hydroponic greenhouse measuring 40x8x9.5ft. |                                |  |

|   |                                |   |
|---|--------------------------------|---|
| <b>Photo #:</b><br>06   | <b>Date:</b><br>01/02/20<br>24 |  |
| <b>Photo Direction:</b><br>East   |                                |   |
| <b>Description:</b><br>Center of site location for vertical hydroponic greenhouse measuring 40x8x9.5ft. |                                |   |

|  |                                 |
|--|---------------------------------|
| Project #: PR-RGRW-03677   | Photographer: Armando Ramos     |
| Location Address: Carr. 134 KM 30 Bo. Bayaney, Hatillo, PR 00659 | Coordinates: 18.37726, -66.7862 |

|   |                                |  |
|---|--------------------------------|--|
| <b>Photo #:</b><br>07   | <b>Date:</b><br>01/02/20<br>24 |  |
| <b>Photo Direction:</b><br>South  |                                |  |
| <b>Description:</b><br>Center of site location for vertical hydroponic greenhouse measuring 40x8x9.5ft. |                                |  |

|   |                                |   |
|---|--------------------------------|---|
| <b>Photo #:</b><br>08   | <b>Date:</b><br>01/02/20<br>24 |  |
| <b>Photo Direction:</b><br>West   |                                |   |
| <b>Description:</b><br>Center of site location for vertical hydroponic greenhouse measuring 40x8x9.5ft. |                                |   |

|  |                                 |
|--|---------------------------------|
| Project #: PR-RGRW-03677   | Photographer: Armando Ramos     |
| Location Address: Carr. 134 KM 30 Bo. Bayaney, Hatillo, PR 00659 | Coordinates: 18.37726, -66.7862 |

|  |                                |  |
|--|--------------------------------|--|
| <b>Photo #:</b><br>09  | <b>Date:</b><br>01/02/20<br>24 |  |
| <b>Photo Direction:</b><br>North   |                                |  |
| <b>Description:</b><br>Overview of alternate location for vertical hydroponic greenhouse 40x8x9.5ft. |                                |  |

|  |                                |   |
|--|--------------------------------|---|
| <b>Photo #:</b><br>10  | <b>Date:</b><br>01/02/20<br>24 |  |
| <b>Photo Direction:</b><br>Southeast   |                                |   |
| <b>Description:</b><br>Location where applicant will construct new electric meter 22in wide, 10ft tall, and 10in thick. Will connect to post seen across the street. New meter will have same measurements as current meter. |                                |   |

|  |                                 |
|--|---------------------------------|
| Project #: PR-RGRW-03677   | Photographer: Armando Ramos     |
| Location Address: Carr. 134 KM 30 Bo. Bayaney, Hatillo, PR 00659 | Coordinates: 18.37726, -66.7862 |

|  |                                |  |
|--|--------------------------------|--|
| <b>Photo #:</b><br>11  | <b>Date:</b><br>01/02/20<br>24 |  |
| <b>Photo Direction:</b><br>Southwest   |                                |  |
| <b>Description:</b><br>Applicant has PVC piping that brings water up to this point. He will add more piping from this point to the project location to give water to the greenhouse. |                                |  |

|   |                                |   |
|---|--------------------------------|---|
| <b>Photo #:</b><br>12   | <b>Date:</b><br>01/02/20<br>24 |  |
| <b>Photo Direction:</b><br>East   |                                |   |
| <b>Description:</b><br>Electric meter applicant uses for his home. He plans for the new one he will build to be just like this one. |                                |   |



|  |                                 |
|--|---------------------------------|
| Project #: PR-RGRW-03677   | Photographer: Armando Ramos     |
| Location Address: Carr. 134 KM 30 Bo. Bayaney, Hatillo, PR 00659 | Coordinates: 18.37726, -66.7862 |

|   |                                |
|---|--------------------------------|
| <b>Photo #:</b><br>13   | <b>Date:</b><br>01/02/20<br>24 |
| <b>Photo Direction:</b><br>East   |                                |
| <b>Description:</b><br>Propane gas tanks applicant uses for kitchen appliances. |                                |



|   |                                |
|---|--------------------------------|
| <b>Photo #:</b><br>14   | <b>Date:</b><br>01/02/20<br>24 |
| <b>Photo Direction:</b><br>Southwest                            |                                |
| <b>Description:</b><br>55-gallon drums used for trash disposal. |                                |



|  |                                 |
|--|---------------------------------|
| Project #: PR-RGRW-03677   | Photographer: Armando Ramos     |
| Location Address: Carr. 134 KM 30 Bo. Bayaney, Hatillo, PR 00659 | Coordinates: 18.37726, -66.7862 |

|   |                                |  |
|---|--------------------------------|--|
| <b>Photo #:</b><br>15                                       | <b>Date:</b><br>01/02/20<br>24 |  |
| <b>Photo Direction:</b><br>Northwest                        |                                |  |
| <b>Description:</b><br>Applicant's house built around 1999. |                                |  |

|   |                                |   |
|---|--------------------------------|---|
| <b>Photo #:</b><br>16   | <b>Date:</b><br>01/02/20<br>24 |  |
| <b>Photo Direction:</b><br>South                              |                                |   |
| <b>Description:</b><br>Neighboring house built around 1990's. |                                |   |

|  |                                 |
|--|---------------------------------|
| Project #: PR-RGRW-03677   | Photographer: Armando Ramos     |
| Location Address: Carr. 134 KM 30 Bo. Bayaney, Hatillo, PR 00659 | Coordinates: 18.37726, -66.7862 |

|   |                                |  |
|---|--------------------------------|--|
| <b>Photo #:</b><br>17   | <b>Date:</b><br>01/02/20<br>24 |  |
| <b>Photo Direction:</b><br>Southeast                          |                                |  |
| <b>Description:</b><br>Neighboring house built around 1990's. |                                |  |

|  |                                |   |
|--|--------------------------------|---|
| <b>Photo #:</b><br>18  | <b>Date:</b><br>01/02/20<br>24 |  |
| <b>Photo Direction:</b><br>West  |                                |   |
| <b>Description:</b><br>Applicant's neighbor's house built 5 years ago. |                                |   |