

Environmental Assessment

Determinations and Compliance Findings for HUD-assisted Projects

24 CFR Part 58

Project Information

Project Name: PR-RGRW-00599: AGG Corporation

Responsible Entity: Puerto Rico Department of Housing

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

State/Local Identifier: Puerto Rico / Municipio of Lares

Preparer: Allyson Rezac, Deputy Program Manager

Certifying Officer Name and Title:

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Consultant (if applicable): SWCA Environmental Consultants

Direct Comments to: PR Department of Housing, environmentcdbg@vivienda.pr.gov

Project Location:

The project is located on a 10.25-acre parcel (CAD Parcel ID 186-078-164-08-000) at Carretera 499 km 1.5, Bo. Buenos Aires Sect Palmasola, Lares, PR 00669 (see **Appendix A, Figure 1**- Site Location and **Figure 2**- Site Vicinity). The property is in a rural area in eastern Lares on the border of Lares and Utuado.

The applicant has identified 3 locations for project activities related for the Intended Use of Grant Funds that are being evaluated under this Environmental Assessment, also shown on Figures 1 and 2:

- Greenhouse Option 1 (18.256649, -66.830000) is in the southwest portion of the parcel.

- Greenhouse Option 2 (18.256860, -66.830141) is in the southwest portion of the parcel approximately 55 feet north of Greenhouse Option 1.
- Solar Panels Option 1 (18.256697, -66.829639) is on an existing warehouse immediately east of the Greenhouse Option 1.

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

The proposed project includes the purchase of various equipment (a walking tractor with flail mower and tiller attachments), the construction and installation of a 32'x180' greenhouse with floor covering, and installation of a solar panel system onto an existing warehouse roof. The equipment purchase is an exempt activity under 24 CFR 58.34(7) and is not further evaluated in this document.

The new greenhouse will replace a greenhouse that was destroyed during Hurricane Maria. The new greenhouse will be approximately 5,760 square feet in size (32' X 180') and will be built on a new plastic and mesh floor the same dimensions of the greenhouse. While the attached SHPO consultation mentions a concrete platform base, a concrete base will not be included in the reconstruction of the greenhouse. The structure will be prefabricated to the extent possible, and the pieces will be fasted together onsite. The quotes do not indicate the number of anchors to secure the structure in place, so the review will assume up to 6-feet below ground disturbance even though ground leveling, and preparation for the platform and greenhouse may not be required. Two optional locations are evaluated for the new greenhouse: Option 1 is in the southwest corner of the parcel; Option 2 is located approximately 55 to 70 feet north of Option 1. Option 1 will not need any vegetation cleared, but some materials from the previous greenhouse may need to be removed. Option 2 may require two small trees to be cleared for the proposed 32'x180' greenhouse to fit. Outside of these activities the project will have minimal ground disturbance. An irrigation system will be installed and will use rainwater diverted to cisterns via canals direct the water to cisterns. The cisterns are not included in the Intended Use of Grant Funds. The system will be powered by existing connections once an electrician verifies the connections are safe.

The solar panels will be installed on the roof of an existing warehouse located immediately east of Greenhouse Option 1. The entire roof was analyzed for solar panel installation to account for any shifts required during installation. Approximately 2,000 square feet of the roof will be covered by 26 3-foot by 4-foot panels. The solar panels will provide electricity through an inverter in the warehouse to the existing cooler. The Intended Use of Grant Funds includes installation of the solar panels and associated inverter and battery.

The applicant owns the property; therefore, no acquisition is required.

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

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

Many properties were damaged in Hurricane 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 CDBG-DR funds for a wide variety of viable and sustainable agricultural activities.

The applicant does not have the resources to purchase farming equipment and materials for their agricultural operation nor has the applicant received any other outside source of funding for the project. The new greenhouse will help increase the agricultural production. The solar panel will help to power a cooler that is used to refrigerate crops that the applicant is unable to immediately sell. The project will support continued local agricultural production during future disasters.

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.

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

The property is being used to produce different crops including avocado trees, cacao trees, bananas, and vegetables. There are two structures on property one residential as well as a 40'x50' building they use for packing. Currently Option 1 for the greenhouse is not being used and has debris that will need to be removed and Option 2 is located near an existing greenhouse.

Funding Information

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

Estimated Total HUD Funded Amount: \$98,810

Estimated Total Project Cost (HUD and non-HUD funds) [24 CFR 58.32(d)]: \$98,810

Compliance with 24 CFR 58.5 and 58.6 Laws and Authorities

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

Compliance Factors: Statutes, Executive Orders, and Regulations listed at 24 CFR §58.5 and §58.6	Are formal compliance steps or mitigation required?	Compliance determinations
STATUTES, EXECUTIVE ORDERS, AND REGULATIONS LISTED AT 24 CFR 58.6		
Airport Hazards 24 CFR Part 51 Subpart D	Yes No <input type="checkbox"/> <input checked="" type="checkbox"/>	<p>The project site is not within 2,500 feet of a civil primary or commercial service airport or within 15,000 feet of a military airport. The Project Site is located 20 miles (108,070 ft) from the nearest civil airport Eugenio Maria De Hostas and 55 miles (289,860 ft) from the nearest military airport, Luis Munoz Marin intl. The project is in compliance with 24 CFR Part 51 Subpart D. No further evaluation is required.</p> <p>The Airport Hazards Partner Worksheet and Airport Hazards Map (Figure B 1-1) are provided in Appendix B, Attachment 1.</p>
Coastal Barrier Resources Coastal Barrier Resources Act, as amended by the Coastal Barrier Improvement Act of 1990 [16 USC 3501]	Yes No <input type="checkbox"/> <input checked="" type="checkbox"/>	<p>The Project Site is not located in or near a Coastal Barrier Resource Systems Unit (CBRS) or Other Protected Area (OPA). There are no CBRS units in Lares. The closest CBRS unit, Penon Brusi, is located 15 miles (81,392 ft) from the project site. The project is in compliance with 16 USC</p>

		<p>3501. No further evaluation is required.</p> <p>The Coastal Barrier Resources Act Partner Worksheet and Coastal Barrier Resources Map (Figure B 2-1) are provided in Appendix B, Attachment 2.</p>
<p>Flood Insurance</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 72000C0590H (effective date 04/19/2005) shows the project site is in Flood Zone X, which is not in a Special Flood Hazard Area (SFHA). Flood insurance is not required.</p> <p>The Flood Insurance Partner Worksheet and FIRM (Figure B 3-1) are provided in Appendix B, Attachment 3.</p>
<p>STATUTES, EXECUTIVE ORDERS, AND REGULATIONS LISTED AT 24 CFR 58.5</p>		
<p>Clean Air</p> <p>Clean Air Act, as amended, particularly section 176(c) & (d); 40 CFR Parts 6, 51, 93</p>	<p>Yes No</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/></p>	<p>The project site is in Lares Municipio, a U.S. Environmental Protection Agency (EPA) designated attainment area. The proposed project will include new construction of a greenhouse and solar panels but is not anticipated to have negative impact on air quality and will not increase residential density. Emissions associated with the proposed actions are limited to use of small construction equipment and are estimated to be well below the Federal General Conformity Rule de minimis thresholds. Temporary, local air quality impacts may occur during site grading and preparation resulting from dust emissions. Routine dust mitigation best management practices are recommended.</p> <p>The Air Quality Partner Worksheet, List of Non-Attainment/Maintenance Status Counties in Puerto Rico, and Clean Air Map (Figure B 4-1) are provided in Appendix B, Attachment 4.</p>
<p>Coastal Zone Management</p> <p>Coastal Zone Management Act, sections 307(c) & (d)</p>	<p>Yes No</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/></p>	<p>The project site is not located within a Puerto Rico Coastal Management Zone. The closest coastal zone area is 15 miles (80,300 ft) from the project site. The</p>

		<p>project is in compliance with the Coastal Zone Management Act, sections 307(c) & (d). No further evaluation is required.</p> <p>The Coastal Zone Management Partner Worksheet and Coastal Zone Map (Figure B 5-1) are provided in Appendix B, Attachment 5.</p>
<p>Contamination and Toxic Substances</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 Environmental Site Inspection on 01/30/2023 to identify any onsite hazards including, but not limited to, soil staining, above ground storage tanks, signs of underground storage tanks, odors, hazardous debris etc. The Site Inspection did not reveal any onsite hazards.</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, and 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.</p> <p>The desktop review did not identify any of the above-listed toxic, hazardous, or radioactive substances within 3,000 feet of the project area that could affect the health and safety of project occupants or conflict with the intended use of the property.</p> <p>The Contamination and Toxics Substances Partner Worksheet, Site Inspection Report, and Contamination and Toxic Substances Map (Figure B 6-1) are provided in Appendix B, Attachment 6.</p>

<p>Endangered Species</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>Threatened, endangered, and migratory bird species were identified by reviewing data from the United States Fish and Wildlife Service (USFWS) Information and Planning Consultation (IPaC) Tool and the Puerto Rico Department of Natural and Environmental Resources (DNER) Species Ranges database. In addition, critical species habitat was reviewed through the USFWS IPaC, Critical Habitat Portal, and the DNER Puerto Rico State Wildlife Action Plan, a Ten-Year Review database.</p> <p>The review identified three federally listed species, the Puerto Rican broad-winged hawk (<i>Buteo platypterus brunnescens</i>), Puerto Rican parrot (<i>Amazona vittate</i>), and Puerto Rican boa (<i>Chilabothrus inornatus</i>), with the potential to occur within the project area.</p> <p>The project activities will result in ground disturbing activities, including vegetation clearing, and construction of a new greenhouse. A qualified biologist reviewed the proposed activity locations and determined there is no suitable habitat for the Puerto Rican broad-winged hawk, or Puerto Rican parrot. Therefore, as currently designed, the proposed project activities will have <i>No effect</i> on these three species or designated critical habitat. Due to the generalist nature of the Puerto Rican boa, forested habitat surrounding the project areas and trees present within the project area, the Puerto Rican boa may occur within the project area. The applicant will employ the conservation measures outlined in the USFWS 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. USFWS provided their concurrence</p>
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		<p>determination with an email dated April 11, 2023.</p> <p>The Endangered Species Act Partner Worksheet, Threatened and Endangered Species Technical Memorandum with IPaC and Puerto Rican Boa Project Design Guidelines, USFWS Consultation Package, Critical Habitat Map (Figure B 7-1), and Essential Fish Habitat Map (Figure B 7-2) are provided in Appendix B, Attachment 7.</p>
<p>Explosive and Flammable Hazards</p> <p>24 CFR Part 51 Subpart C</p>	<p>Yes No</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/></p>	<p>The project includes the new construction of a greenhouse and instillation of a solar panel system. The project itself is not the development of a hazardous facility nor will the project increase residential densities. Project activities are therefore an exempt activity. No further evaluation is required.</p> <p>The Explosive and Flammable Hazards Partner Worksheet is provided in Appendix B, Attachment 8.</p>
<p>Farmlands Protection</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. All soils on the site are Humatas clay and are classified as 'Not Prime Farmland'. No prime farmland or farmlands of statewide importance are within the project area. Although the project includes new construction, the project is exempt from review under the Farmland Protection Policy Act (FFPA) as the project is limited to construction of on farm structures needed for farm operations. No further review is required.</p> <p>The Farmlands Protection Partner Worksheet and Prime Farmland Map (Figure B 9-1) are provided in Appendix B, Attachment 9.</p>
<p>Floodplain Management</p> <p>Executive Order 11988,</p>	<p>Yes No</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/></p>	<p>A review of the Advisory Base Flood Elevation (ABFE) map, community panel</p>

<p>particularly section 2(a); 24 CFR Part 55</p>		<p>72000C0590H (effective date 04/19/2005) shows the applicants parcel in a zone X (area of minimal flood hazard)</p> <p>The project is not located in the 100-year floodplain or ABFE special flood hazard area; therefore, no further action is required.</p> <p>The Floodplain Management Partner Worksheet and ABFE Floodplain Map (Figure B 10-1) are provided in Appendix B, Attachment 10.</p>
<p>Historic Preservation</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 involves new construction of a greenhouse on undeveloped property and significant ground disturbing activities of previously undisturbed soil and installation of solar panels and associated components to an existing structure. State Historic Preservation Office (SHPO) consultation was performed.</p> <p>No National Historic Landmark (NHL) are within or near the project area.</p> <p>The site was visited on January 30, 2023, by an SOI-qualified Archaeologist. Records review and research were conducted at the SHPO and the Institute for Puerto Rican Culture (ICP) to determine if any archaeologically sensitive resources could be present within a 0.5-mile radius.</p> <p>The results of the Record Search and the Site Inspection indicate that there are no historic properties or cultural resources within the 0.50-mile radius study area or within the project APE.</p> <p>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 determination was submitted to SHPO by PRDOH for concurrence on April 10, 2023, and SHPO concurred with the No Historic Properties Affected</p>

		determination on April 14, 2023. The Historic Preservation Partner Worksheet and SHPO consultation are provided in Appendix B, Attachment 11.
<p>Noise Abatement and Control</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 a greenhouse and solar panel system and do not involve residential new construction or rehabilitation. Project activities are therefore an exempt activity. No further evaluation is required.</p>
<p>Sole Source Aquifers</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 US Environmental Protection Agency's Source Water Protection, Sole Source Aquifer Protection Program, there are no Sole Source Aquifers in Puerto Rico. The project is in compliance with this section (Safe Drinking Water Act of 1974, as amended; 40 CFR Part 149). No further evaluation is required.</p>
<p>Wetlands Protection</p> <p>Executive Order 11990, particularly sections 2 and 5</p>	<p>Yes No</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/></p>	<p>The Project Site was reviewed for wetlands using the USFWS Wetland Inventory Mapper and a visual confirmation during the Field Site Inspection. No wetlands were determined to be present on Site. The nearest wetland was 2,350 ft from the project site.</p> <p>The Wetlands Protection Partner Worksheet and Wetland Map (Figure B 14-1) are provided in Appendix B, Attachment 12.</p>
<p>Wild and Scenic Rivers</p> <p>Wild and Scenic Rivers Act of 1968, particularly section 7(b) and (c)</p>	<p>Yes No</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/></p>	<p>A review of the USFWS National Wild and Scenic River mapper identified no Wild and Scenic Rivers or National Rivers Inventory (NRI) rivers present in Lares Municipio. The closest Wild and Scenic River segment is 68 miles east of the project site. The project is in compliance with the Wild and Scenic Rivers Act of 1968 . No further evaluation is required.</p>

		The Wild and Scenic Rivers Partner Worksheet and Wild and Scenic Rivers Map (Figure B 15-1) are provided in Appendix B, Attachment 13.
ENVIRONMENTAL JUSTICE		
Environmental Justice Executive Order 12898	Yes No <input type="checkbox"/> <input checked="" type="checkbox"/>	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 providing a greenhouse and solar panel system to expand production of produce from the farm. The project would not negatively affect human health or result in disproportionate adverse environmental impacts to low-income or minority populations. The Environmental Justice Partner Worksheet and EJScreen Report are provided in Appendix B, Attachment 14.

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
LAND DEVELOPMENT		
Conformance with Plans / Compatible Land Use and Zoning / Scale and Urban Design	2	<p>All project site optional locations are classified as R-G Rural General land. The proposed action is continued agricultural use of property, which is compatible with zoning and existing land use.</p> <p>Construction actions include minor improvements 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 and project activities will not contribute to urban sprawl.</p> <p>Any necessary construction permits should be obtained by the applicant and/or contractor from the appropriate department prior to construction activities.</p>
Soil Suitability/ Slope/ Erosion/ Drainage/ Storm Water Runoff	2	<p>Per the USGS/NRCS Web Soil Survey, the project areas are within one mapped soil series, HmF2 –Humatas clay, 40 to 60 percent slopes. Soil suitability will be assessed prior to construction and will be addressed during local permitting processes. Contractors will be required to use best management practices during construction. The soil is currently being used for agriculture purposes. The general topography of the project area is generally flat with slight slopes and open vegetated areas. Leveling may be required for the project sites that have a slight slope.</p> <p>Landslide data from the U.S. Geological Survey (USGS) indicates less than 25 landslides per square kilometer for the project area (see Figure A-3).</p>
Hazards and Nuisances		Contractors will be required to provide health and safety plans and monitoring during

including Site Safety and Noise	2	<p>construction. Noise levels will temporarily increase during construction, but construction of a greenhouse and a solar panel system are limited to the existing farmlands and will not elevate ambient noise levels over the long-term.</p> <p>Contractors will be required to comply with the applicable local noise ordinances. Noise impacts will be mitigated by restricting construction activities to daylight hours.</p>
Energy Consumption	2	<p>The construction of a greenhouse and a solar panel system will not result in significant additional energy consumption as it involves only the instillation of a new greenhouse and solar panel system. The new solar panel system will help power storage coolers for produce, so the coolers will no longer rely on existing power facilities.</p>

Environmental Assessment Factor	Impact Code	Impact Evaluation
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SOCIOECONOMIC

Employment and Income Patterns	2	<p>The construction of a greenhouse and a solar panel system will result in short-term benefit to employment when construction crews are hired for the Construction and instillation of the greenhouse and solar panel system. After construction, there may be a net positive benefit for the Farm, a small business receiving this funding for Economic Development recovery purposes which will aid in the continued operations of the intended use of the Farm.</p> <p>The project is not anticipated to have a significant impact on Employment and Income Patterns. However, since the project will include an economic component, it may aid in restoring some employment opportunities and income patterns.</p>
Demographic Character Changes, Displacement	2	<p>The construction of a greenhouse and a solar panel system will not alter the demographics or character of the farm or Municipio in which it is located, nor will it involve displacement.</p>

Environmental Assessment Factor	Impact Code	Impact Evaluation
COMMUNITY FACILITIES AND SERVICES		
Educational and Cultural Facilities	2	The Project is limited to construction of a greenhouse, and solar panel system on an existing farm and will not affect access to or capacity of educational or cultural facilities.
Commercial Facilities	2	The construction of a greenhouse and solar panel system will increase agricultural production resulting in a net positive impact to the applicant's farm commercial output and a positive benefit to surrounding commercial enterprises who purchase and sell the produce.
Health Care and Social Services	2	The Project is limited to construction of a greenhouse and a solar panel system on an existing farm and will not contribute to changes in Health Care and Social Services.
Solid Waste Disposal / Recycling	2	The installation of a greenhouse and solar panels 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	<p>The installation of a new greenhouse and solar panel system is not expected to result in significant changes in wastewater or sanitary sewer use.</p> <p>Sewage will not be generated from the project. Wastewater from the project will not enter environmentally sensitive areas, nor will the project produce any noxious odors affecting quality of life for nearby residents. No new wastewater or sanitary sewer connections are required for Option 1 or Option 2 of this project.</p>
Water Supply		The Project is limited to construction of a greenhouse

	2	and a solar panel system on an existing farm and is not expected to result in significant changes to municipal water supply. Water to irrigate the greenhouse will be supplied from an irrigation system installed in the future. It will use rainwater diverted to cisterns via canals direct the water to cisterns.
Public Safety - Police, Fire and Emergency Medical	2	The proposed construction of a greenhouse and a solar panel system will occur on an existing private farm and will not affect public safety concerns such as police, fire, and emergency medical services.
Parks, Open Space and Recreation	2	The proposed construction of a greenhouse and a solar panel system will occur on private land and will not result in any changes to access or use of parks, open space, and recreation areas.
Transportation and Accessibility	2	The construction of a greenhouse and a solar panel system will occur on private land and have no relation to transportation services. The proposed activities will not result in any changes in transportation and accessibility.

Environmental Assessment Factor	Impact Code	Impact Evaluation
NATURAL FEATURES		
Unique Natural Features, Water Resources	2	The project is not located in proximity to unique natural features or water resources; therefore, construction activities will not affect quality or access to these resources.
Vegetation, Wildlife	2	Option 1 for the greenhouse will not need any vegetation cleared, but Option 2 may require one or two small trees to be cleared to fit the entire structure. They plan to transplant the removed tree to another part of the farm -one is a Capá Prieto (from Puerto Rico) and a Guanacaste (not from Puerto Rico). Therefore, the impacts to vegetation will be minor.
Climate Change		The proposed ReGrow program project aims to increase resiliency in the agricultural industry to

	2	<p>prepare for future climate related disasters, including drought. The Climate Mapping for Resilience and Adaptation Assessment tool (https://resilience.climate.gov/#assessment-tool) 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 (72081958200) that includes application location does not indicate a significant increase in hazard risks from climate change for drought, wildfire, or flooding, when comparing historical data (1976-2005) to future projections. The model projects a greater number of days where temperatures will exceed 90 degrees Fahrenheit after 2015, which is a systemic trend in the model across the Island.</p> <p>The specific activities proposed for this economic development project are limited in scale and land impacts. The proposed greenhouse and solar panel construction activities are for individual farm use and will not result in a significant increase in electricity or water draw. The greenhouse/irrigation system used 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>
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Additional Studies Performed: None required.

Field Inspection (Date and completed by): Completed 01/30/2023 by Delise Torres-Ortiz

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

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

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

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

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

Federal Emergency Management Agency (FEMA). 2023. FEMA Flood Map Service Center - Map 72000C0590H (effective date 04/19/2005). Accessed March 1, 2023. Available at: <https://msc.fema.gov/portal/home>.

Institute of Puerto Rican Culture (ICP), San Juan, Puerto Rico, 00902-4184 Data Collection Conducted on February 6, 2023.

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

State Historic Preservation Office (SHPO), San Juan, PR 00902-3935. Data Collection Conducted on March 14, 2023.

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

USEPA. 2022b. Sole Source Aquifer Map. Accessed March 1, 2023. 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 31, 2023. Available at: https://www3.epa.gov/airquality/greenbook/anayo_pr.html.

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USFWS. 2023a. Information for Planning and Consultation (IPaC). Accessed March 17, 2023. Available at: <https://ipac.ecosphere.fws.gov/location/index>.

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

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

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

List of Permits Obtained:

None required.

Public Outreach [24 CFR 58.43]:

The public will be notified of the project through publication of the combined Finding of No Significant Impact – Notice of Intent to Request Release of Funds notice with a 15-day public comment period.

Cumulative Impact Analysis [24 CFR 58.32]:

The installation of a greenhouse and solar panel system at the project site is not anticipated to have a negative impact on environmental resources. None of the environmental assessment factors nor the regulations reviewed in the above checklist resulted in negative environmental impacts or the need for mitigation. Overall, the project will have a net positive impact by helping a small business increase their capacity for agricultural production. There are no other known planned or ongoing projects in the project vicinity that could contribute to cumulative impacts of environmental resources.

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

New Locations on Another Property

If the project occurred on a different property, the applicant may not be able to recover from previous disasters and may have difficulty continuing agricultural production during future disasters. They would not receive a way to keep the produce fresh without the ability to keep it cool and their production would remain limited. Off-parcel locations may have dense vegetation that would need to be cleared and graded to construct a greenhouse which would be a greater impact to vegetation and wildlife than the chosen options for to project.

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 greenhouse, or install Solar Panels. Consequently, the applicant may not be able to recover from previous disasters and may have difficulty continuing agricultural production during future disasters. 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. There are no mitigation requirements for any of the laws and authorities assessed in this review.

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

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

Law, Authority, or Factor	Mitigation Measure
<p>Endangered Species Endangered Species Act of 1973, particularly section 7; 50 CFR Part 402</p>	<p>The project activities may result in relocation of one or two trees if Greenhouse Option 2 is selected. A qualified biologist reviewed the proposed activity locations and determined there is no suitable habitat for the Puerto Rican broad-winged hawk, or Puerto Rican parrot. Therefore, as currently designed, the proposed project activities will have No effect on these three species or designated critical habitat.</p> <p>If any additional tree clearing is to be proposed, the project will need to be re-evaluated for impacts to threatened and endangered species.</p> <p>If a 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>Historic Preservation National Historic Preservation Act of 1966, particularly sections 106 and 110; 36 CFR Part 800</p>	<p><i>General Condition:</i> If historic properties are discovered, unanticipated effects on historic properties are found, or cultural materials are encountered, work should cease in the immediate area; work can continue where no historic properties or cultural materials are present. Please contact PRDOH to consult on further actions that may be necessary to protect historic properties or cultural materials.</p>
<p>Conformance with Plans / Compatible Land Use and Zoning / Scale and Urban Design</p>	<p>Any necessary environmental permits should be obtained by the applicant and/or contractor from the appropriate department prior to construction activities.</p>
<p>Soil Suitability/ Slope/ Erosion/ Drainage/ Storm Water Runoff</p>	<p>Soil suitability will be assessed prior to construction and will be addressed during local permitting processes. Contractors will be required to use best management practices during construction if erosion impacts will occur. Department of Natural and Environmental Resources (DNER) authorization may be required for any extraction, removal, excavation, and dredging of the components of the earth's crust.</p>
<p>Vegetation, Wildlife</p>	<p>DNER authorization may be required for 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. Contractors will be required to comply with the applicable local noise ordinances. Noise impacts will be mitigated by restricting construction activities to daylight hours.</p>
<p>Solid Waste Disposal / Recycling</p>	<p>All construction debris will be disposed of at the proper facilities for the debris type (i.e. construction waste).</p>

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: Allyson Rezac Date: 03/05/2024

Name/Title/Organization: Allyson Rezac Deputy Program Manager, SWCA

Environmental Consultants _____

Certifying Officer Signature: I. Lorenzo Date: March 13, 2024

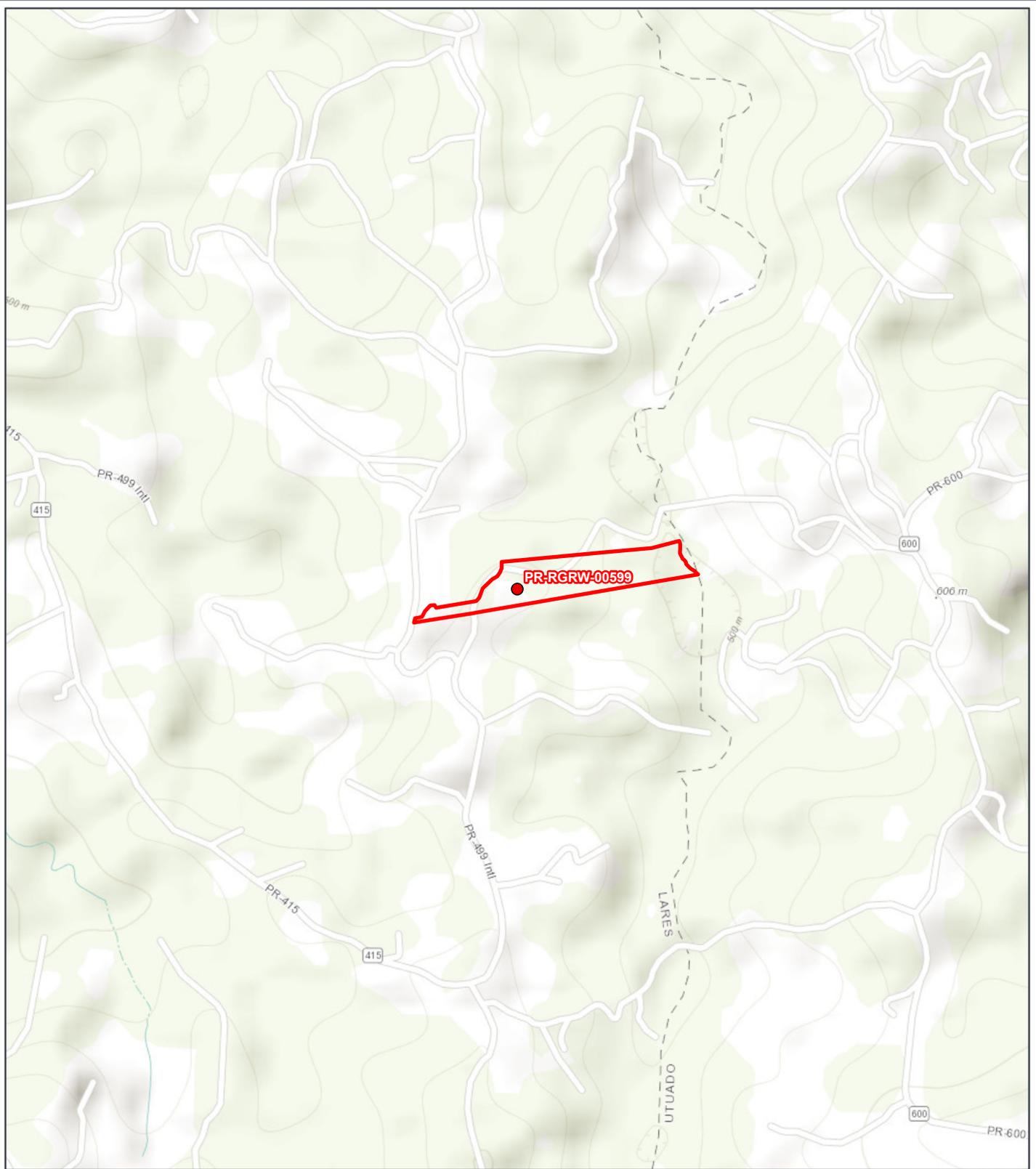
Name/Title: I. Lorenzo, Permits and Environmental Compliance Specialist

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

Appendix A

Project Overview Figures

Figure 1
Site Location Map



REGROW PROGRAM

**Figure A-1:
Site Location**

Applicant ID: PR-RGRW-00599

- Site
- Site Parcel



499 km 1.5, Bo. Buenos Aires
Sect Palmasola
Lares, Puerto Rico 00669

Parcel ID: 186-078-164-08-000
Parcel Center:
66.829951°W 18.256772°N

Base Map: ESRI ArcGIS Online,
accessed July 2023
Updated: 7/27/2023
Layout: Site Location
Aprx: 72428_ReGrowTier2Maps



1:12,000



Figure 2
Site Vicinity Map



REGROW PROGRAM

**Figure A-2:
Site Vicinity**

Applicant ID: PR-RGRW-00599



- Site
- Site Parcel
- Project Footprint (Option)

499 km 1.5, Bo. Buenos Aires
Sect Palmasola
Lares, Puerto Rico 00669

Parcel ID: 186-078-164-08-000
Parcel Center:
66.829148°W 18.256918°N

Base Map: ESRI ArcGIS Online,
accessed May 2023
Updated: 5/26/2023
Layout: Site Vicinity
Aprx: 72428_ReGrowTier2Maps

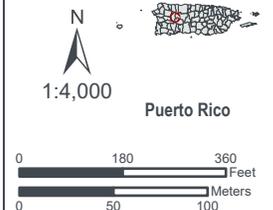
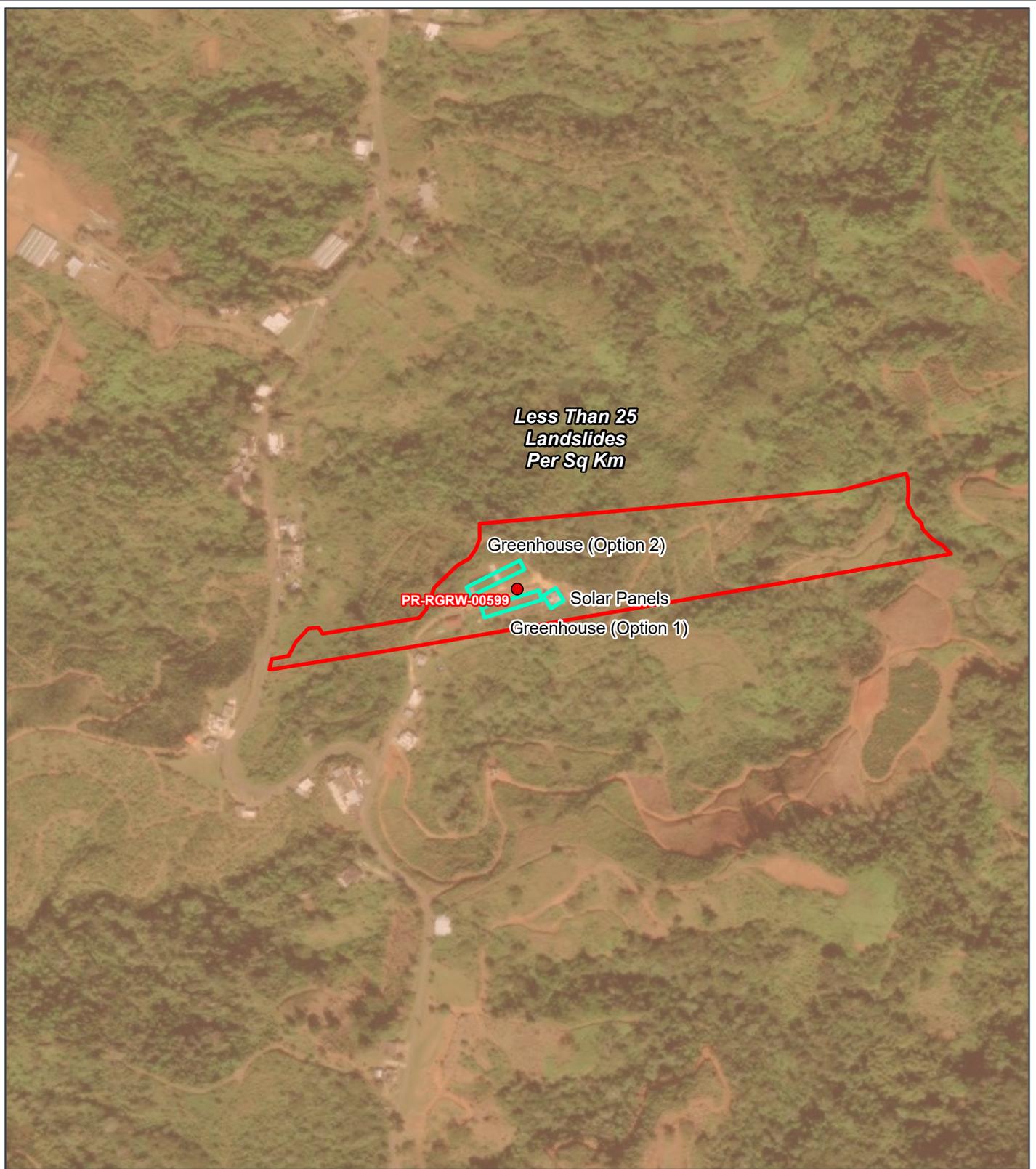


Figure 3
USGS Landslide Map



*Less Than 25
Landslides
Per Sq Km*

Greenhouse (Option 2)

PR-RGRW-00599

Solar Panels

Greenhouse (Option 1)

REGROW PROGRAM

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

Applicant ID: PR-RGRW-00599

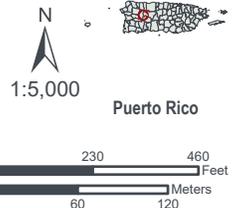


- Site
- ▭ Site Parcel
- ▭ Project Footprint (Option)
- ▭ Greater than 25 Landslides per sq km
- ▭ Less than 25 Landslides per sq km
- ▭ No Landslides
- ▭ Not Examined

499 km 1.5, Bo. Buenos Aires
Sect Palmasola
Lares, Puerto Rico 00669

Parcel ID: 186-078-164-08-000
Parcel Center:
66.829951°W 18.256772°N

Data Source: https://arcgis.cuahsi.org/arcgis/rest/services/MariaRAPID/Hurricane_Maria_Landslides/MapServer
Base Map: ESRI ArcGIS Online, accessed July 2023
Updated: 7/27/2023
Layout: Landslide



Appendix B
Attachments and Supporting
Documentation

Attachment 1
Airport Hazards Partner Worksheet and
Airport Hazards Map



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

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

Airport Hazards (CEST and EA) – PARTNER

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

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

No → *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide a map showing that the site is not within the applicable distances to a military or civilian airport.*

Yes → *Continue to Question 2.*

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

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

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

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

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

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

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

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

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

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

Click here to enter text.

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

Worksheet Summary

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

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

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

The project site is not within 2,500 feet of a civil primary or commercial service airport or within 15,000 feet of a military airport. The nearest civil primary or commercial service airport, Eugenio Maria De Hostos, is located 20 miles from the project site. The nearest military airport, Fernando Luis Ribas Dominicci, is located 55 miles from the project site.



REGROW PROGRAM

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

Applicant ID: PR-RGRW-00599

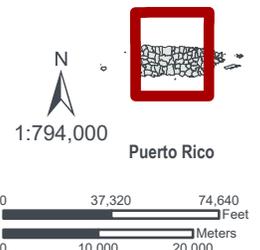


- Site
- Airport Runway
- Accident Potential Zones (APZ)
- Runway Protection Zones (RPZ)
- 2,500-FT Civil Airport Buffer
- 15,000-FT Military Airport Buffer

499 km 1.5, Bo. Buenos Aires
Sect Palmasola
Lares, Puerto Rico 00669

Parcel ID: 186-078-164-08-000
Parcel Center:
66.579025°W 18.348048°N

Data Source: <https://geodata.bts.gov/>
Base Map: ESRI ArcGIS Online,
accessed May 2023
Updated: 5/26/2023
Layout: Airport Hazards
Aprx: 72428_ReGrowTier2Maps



Attachment 2

Coastal Barrier Resources Act Partner Worksheet and Coastal Barrier Resources Map



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

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

Coastal Barrier Resources (CEST and EA) – PARTNER

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

Projects located in the following states must complete this form.

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

1. Is the project located in a CBRS Unit?

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

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

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

- Consultation with the FWS
- Cancel the project

Worksheet Summary

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

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

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



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). There are no CBRS units in Lares. The closest CBRS unit, Penon Brusi, is 15 miles from the project site.



REGROW PROGRAM

Figure B 2-1: Coastal Barrier Resources Map

Applicant ID: PR-RGRW-00599

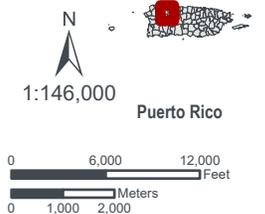


- Site
- Otherwise Protected Area
- System Unit

499 km 1.5, Bo. Buenos Aires
Sect Palmasola
Lares, Puerto Rico 00669

Parcel ID: 186-078-164-08-000
Parcel Center:
66.831999°W 18.368824°N

Data Source: <https://cbrsgis.wim.usgs.gov/arcgis/rest/services/CoastalBarrierResourcesSystem/MapServer>
Base Map: ESRI ArcGIS Online, accessed May 2023
Updated: 5/26/2023
Layout: Coastal Barrier Resources System



Attachment 3

Flood Insurance Partner Worksheet and Flood Insurance Rate Map



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

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

Flood Insurance (CEST and EA) – PARTNER

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

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

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

→ Continue to the Worksheet Summary.

Yes → Continue to Question 2.

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

The Federal Emergency Management Agency (FEMA) designates floodplains. The [FEMA Map Service Center](#) provides this information in the form of FEMA Flood Insurance Rate Maps (FIRMs).

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

No → Continue to the Worksheet Summary.

Yes → Continue to Question 3.

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

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

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

→ Continue to the Worksheet Summary.

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

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

→ Continue to the Worksheet Summary.

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

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

Worksheet Summary

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

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

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

A review of the FEMA Flood Insurance Rate Map (FIRM), Community Panel 72000C1135H (effective date 04/19/2005), shows the project site is in Flood Zone X, which is not in a Special Flood Hazard Area (SFHA). Flood insurance is not required.



REGROW PROGRAM

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

Applicant ID: PR-RGRW-00599

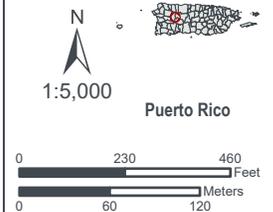


- Site
- Site Parcel
- Project Footprint (Option)
- Base Flood Elevations
- Zone A
- Zone AE
- Zone AH
- Zone AO
- Zone VE
- Floodway
- Zone X - Shaded (500-year floodplain)
- Zone X - Unshaded
- Area Not Included
- Open Water

499 km 1.5, Bo. Buenos Aires
Sect Palmasola
Lares, Puerto Rico 00669

Parcel ID: 186-078-164-08-000
Parcel Center:
66.829951°W 18.256772°N

Data Source: <https://hazards.fema.gov/gis/nfhl/rest/services/public/NFHL/MapServer>
Base Map: ESRI ArcGIS Online, accessed July 2023
Updated: 7/27/2023
Layout: Effective Floodplain
Aprx: 72428_ReGrowTier2Maps



Attachment 4

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



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

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

Air Quality (CEST and EA) – PARTNER

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

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

Yes → *Continue to Question 2.*

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

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

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

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

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

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

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

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

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

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

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

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

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

[Click here to enter text.](#)

Worksheet Summary

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

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

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

The project site is in Lares, which is within an U.S. Environmental Protection Agency (EPA) designated attainment area. The proposed project will include new construction of a greenhouse and solar panels, but is not anticipated to have negative impact on air quality and will not increase residential density. Emissions associated with the proposed actions are limited to use of small construction equipment and are estimated to be well below the Federal General Conformity Rule *de minimis* thresholds. Temporary, local air quality impacts may occur during site grading and preparation resulting from dust emissions. Routine dust mitigation BMPs are recommended.



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

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

Data is current as of February 28, 2023

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

* The 1997 Primary Annual PM-2.5 NAAQS (level of 15 µg/m³) 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
PUERTO RICO								
Arecibo Municipio	Lead (2008)	Arecibo, PR	11121314151617181920212223	//		Part	32,185	72/013
Bayamon Municipio	Sulfur Dioxide (2010)	San Juan, PR	181920212223	//		Part	22,921	72/021
Catano Municipio	Sulfur Dioxide (2010)	San Juan, PR	181920212223	//		Whole	28,140	72/033
Guaynabo Municipio	PM-10 (1987)	Mun. of Guaynabo, PR	929394959697989900010203040506070809	02/11/2010	Moderate	Part	90,470	72/061
Guaynabo Municipio	Sulfur Dioxide (2010)	San Juan, PR	181920212223	//		Part	23,802	72/061
Salinas Municipio	Sulfur Dioxide (2010)	Guayama-Salinas, PR	181920212223	//		Part	23,401	72/123
San Juan Municipio	Sulfur Dioxide (2010)	San Juan, PR	181920212223	//		Part	147,963	72/127
Toa Baja Municipio	Sulfur Dioxide (2010)	San Juan, PR	181920212223	//		Part	52,441	72/137

Important Notes

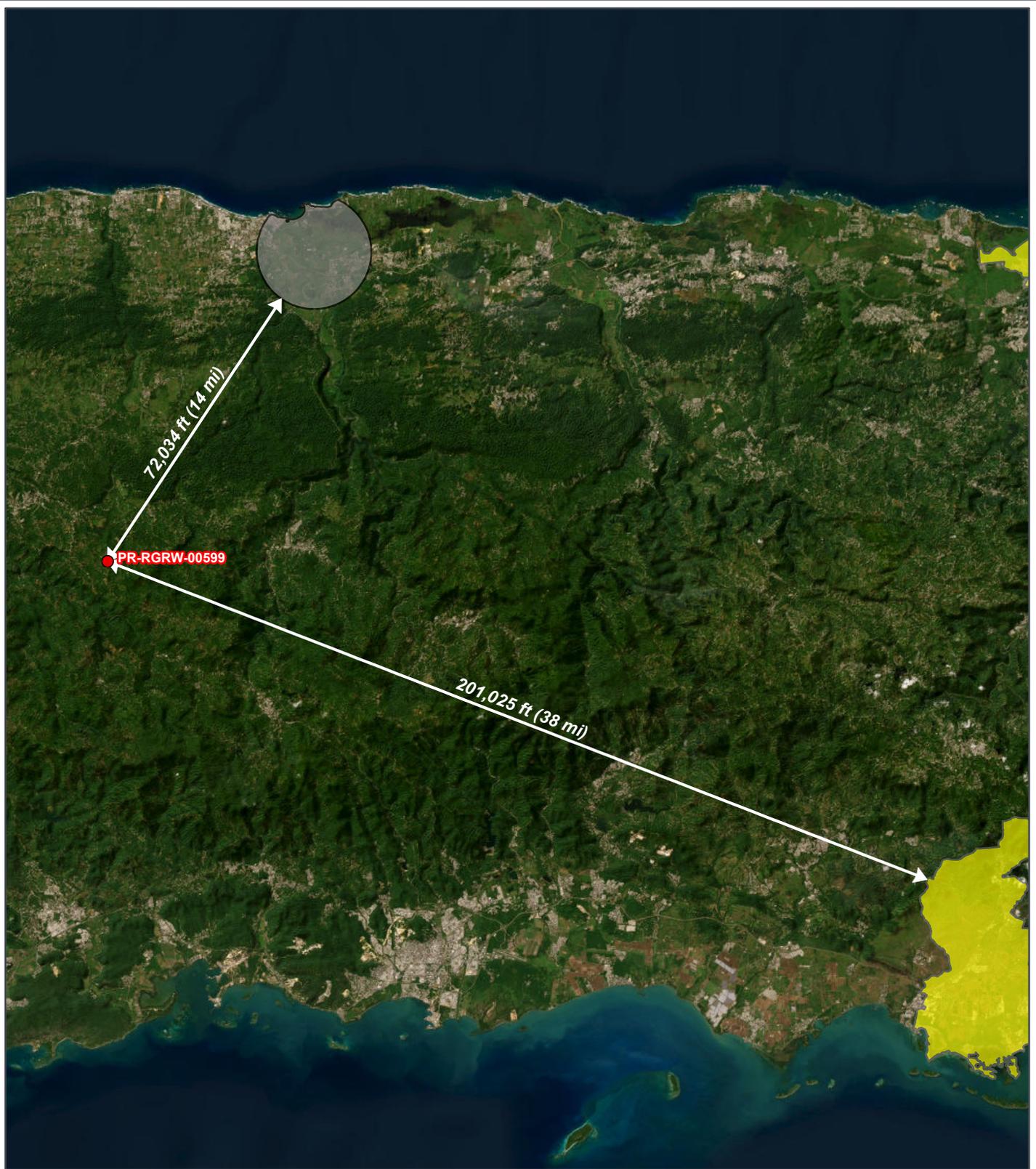
Discover.

Connect.

Ask.

Follow.

2023-02-28



REGROW PROGRAM

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

Applicant ID: PR-RGRW-00599



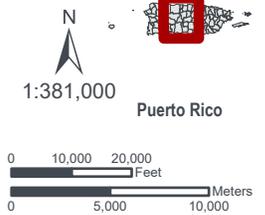
- Site
- 8-Hour Ozone (2015 Standard)*
- Lead (2008 Standard)
- PM-2.5 (2012 Standard)*
- Sulfur Dioxide (2010 Standard)

*No Data in Puerto Rico

499 km 1.5, Bo. Buenos Aires
Sect Palmasola
Lares, Puerto Rico 00669

Parcel ID: 186-078-164-08-000
Parcel Center:
66.559875°W 18.239665°N

Data Source: https://geopub.epa.gov/arcgis/rest/services/NEPAAssist/NEPAVELayersPublic_fgdb/MapServer
Base Map: ESRI ArcGIS Online, accessed May 2023
Updated: 5/26/2023
Layout: Clean Air
Aprx: 72428_ReGrowTier2Maps



Attachment 5

Coastal Zone Management Partner Worksheet and Coastal Zone Map



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

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

Coastal Zone Management Act (CEST and EA) – PARTNER

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

Projects located in the following states must complete this form.

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

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

Yes → Continue to Question 2.

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

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

Yes → Continue to Question 3.

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

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

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

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

No → Project cannot proceed at this location.

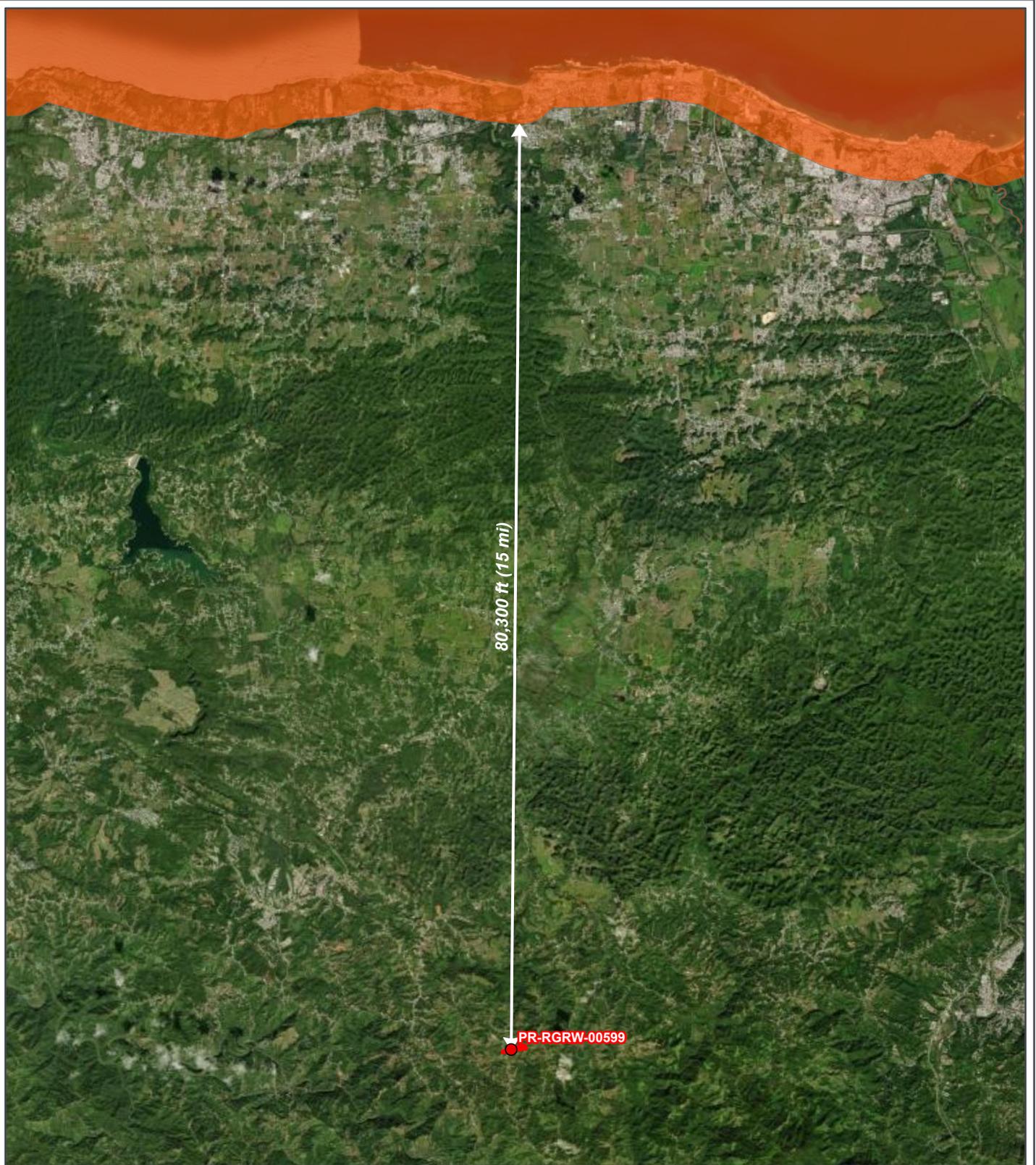
Worksheet Summary

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

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

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

The project site is not located within a Puerto Rico Coastal Management Zone. The closest coastal zone area is 15 miles from the project site. Project activities are therefore an exempt activity. No further evaluation is required.



REGROW PROGRAM

Figure B 5-1: Coastal Zone Management Map

Applicant ID: PR-RGRW-00599

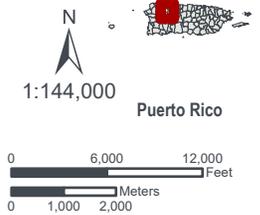


- Site
- Coastal Management Zone

499 km 1.5, Bo. Buenos Aires
Sect Palmasola
Lares, Puerto Rico 00669

Parcel ID: 186-078-164-08-000
Parcel Center:
66.829132°W 18.367335°N

Data Source: <https://coast.noaa.gov/arcgis/rest/services/Hosted/CoastalZoneManagementAct/>
Base Map: *ESRI ArcGIS Online*, accessed May 2023
Updated: 5/30/2023
Layout: Coastal Zone Management
Aprx: 72428_ReGrowTier2Maps



Attachment 6

Contamination and Toxics Substances Partner Worksheet, and Toxics and Contamination Map



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

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

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

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

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

- ASTM Phase I ESA
- ASTM Phase II ESA
- Remediation or clean-up plan
- ASTM Vapor Encroachment Screening
- None of the above

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

Continue to Question 2.

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

- No → Explain below.

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

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

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

3. Can adverse environmental impacts be mitigated?

¹ HUD regulations at 24 CFR § 58.5(i)(2)(ii) require that the environmental review for multifamily housing with five or more dwelling units or non-residential property include the evaluation of previous uses of the site or other evidence of contamination on or near the site. For acquisition and new construction of multifamily and nonresidential properties HUD strongly advises the review include an ASTM Phase I Environmental Site Assessment (ESA) to meet real estate transaction standards of due diligence and to help ensure compliance with HUD’s toxic policy at 24 CFR §58.5(i) and 24 CFR §50.3(i). Also note that some HUD programs require an ASTM Phase I ESA.

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

Yes, adverse environmental impacts can be eliminated through mitigation.
→ *Provide all mitigation requirements² 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 controls³, or use of institutional controls⁴.

[Click here to enter text.](#)

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

- Complete removal
 Risk-based corrective action (RBCA)

→ *Continue to the Worksheet Summary.*

Worksheet Summary

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

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

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

The project site was evaluated for potential contamination by conducting a field site inspection on 01/30/2023 to identify any onsite hazards including, but not limited to, soil staining, above ground storage tanks, signs of underground storage tanks, odors, hazardous debris etc. The site inspection did not identify any onsite hazards.

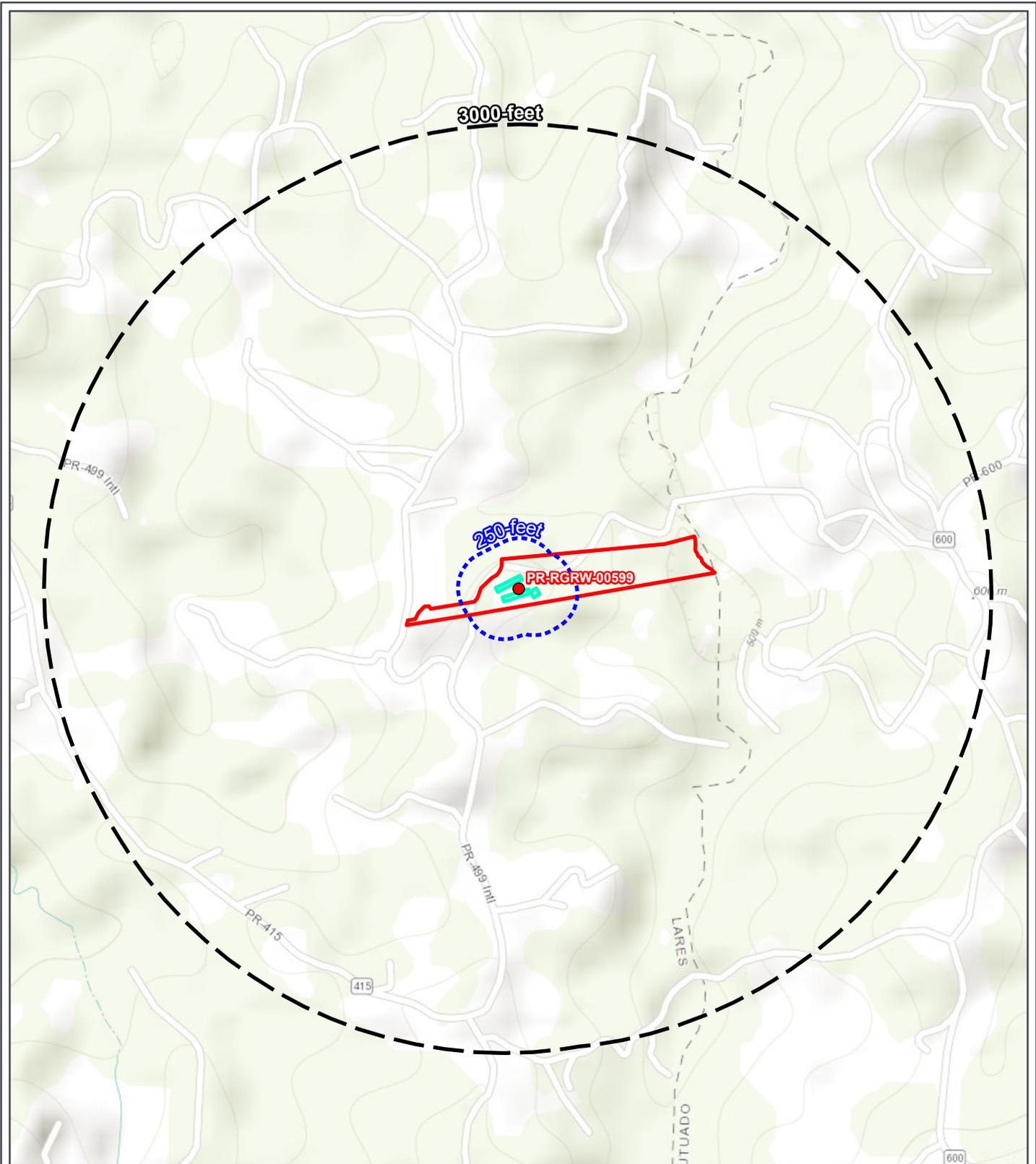
In addition, a desktop review of EPA databases, NEPAAssist, and other sources was conducted to determine if the project site was located near dump sites, junk yards, landfills, hazardous waste sites, or industrial sites, including EPA National Priorities List Sites (Superfund sites), CERCLA or state-equivalent sites, RCRA Corrective Action sites with release(s) or suspected release(s) requiring clean-up action and/or further investigation.

² 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.

³ 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.

⁴ 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.

The desktop review did not find any on-site toxic, hazardous or radioactive substances that could affect the health and safety of project occupants or conflict with the intended use of the property.



REGROW PROGRAM

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

Applicant ID: PR-RGRW-00599

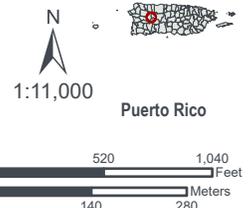


- Site
- Site Parcel
- Project Footprint (Option)
- Buffer (250-feet)
- Buffer (3000-feet)
- Water dischargers
- Toxic Substances Control Act
- Toxic releases
- Superfund
- Hazardous waste
- Brownfields
- Air pollution

499 km 1.5, Bo. Buenos Aires
Sect Palmasola
Lares, Puerto Rico 00669

Parcel ID: 186-078-164-08-000
Parcel Center:
66.829951°W 18.256772°N

Data Source: <https://geopub.epa.gov/arcgis/rest/services/EMEF/MapServer>
Base Map: ESRI ArcGIS Online, accessed May 2023
Updated: 5/30/2023
Layout: Contamination and Toxic Substances



Attachment 7

**Endangered Species Act Partner
Worksheet, Threatened and Endangered
Species Technical Memorandum,
USFWS Consultation, 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 and the Puerto Rico Department of Natural and Environmental Resources (DNER) Species Ranges database. In addition, critical species habitat was reviewed through the USFWS IPaC, Critical Habitat Portal, and the DNER Puerto Rico State Wildlife Action Plan, a Ten-Year Review database. The review identified three federally listed species, the Puerto Rican broad-winged hawk (*Buteo platypterus brunnescens*), Puerto Rican parrot (*Amazona vittate*), and Puerto Rican boa (*Chilabothrus inornatus*) one two state listed species, the brown pelican (*Pelecanus occidentalis*), 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 Puerto Rican broad-winged hawk, Puerto Rican parrot, or designated critical habitat and *no impact* to

any state listed species. 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 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, received on April 11, 2023.

Andrea Curbelo-Marty

From: Roman, Damaris <damaris_roman@fws.gov>
Sent: Tuesday, April 11, 2023 8:47 AM
To: susan.fischer@swca.com
Cc: Angel G. Lopez-Guzman; Andrea Curbelo-Marty
Subject: CDBG-DR_RGRW Program case 00599
Attachments: 202300411_CDBG-DR RGRW-00599 SWCA-72428_drr_72081-Gen.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

Ms. Fischer

See attached file regarding the referenced project. Should you have any questions, contact us at caribbean_es@fws.gov

Thanks

**** If you need assistance, please contact me at emails or mobile below. If you are sending a request for technical assistance or Section 7 consultation, please contact us at Caribbean_es@fws.gov****

Need a project evaluation? Please visit our [Consultation Guidelines](#) website.

Cordially,

Damaris Román Ruiz

Biological Science Technician
US Fish and Wildlife Service
Caribbean Ecological Service Field Office
P.O Box 491/Road 301 km 5.1
Boqueron PR 00622

(786) 244-0081
damaris_roman@fws.gov
caribbean_es@fws.gov

Office Homepage: <https://www.fws.gov/southeast/caribbean/>
Facebook: <https://www.facebook.com/USFWSCaribbean?ref=hl>
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For more information please visit <http://www.symanteccloud.com>

Andrea Curbelo-Marty

From: Angel G. Lopez-Guzman
Sent: Thursday, March 30, 2023 5:58 PM
To: Edwin_muniz@fws.gov; Caribbean_es@fws.gov
Cc: Andrea Curbelo-Marty; Angel G. Lopez-Guzman
Subject: USFWS CBRS Consultation_CDBG-DR_RGRW Program case 00599
Attachments: USFWS Consultation Letter_PR-RGRW-00599.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

To whom it may concern:

In order to complete the informal consultation process regarding case **RGRW-00599** for the CDBG-DR/ReGrow Program, we are requesting USFWS concurrence for the NLAA determinations included in the attached letter. We are including the documents used to reach our effect determinations for the listed species.

We look forward for your determination in order to step forward our environmental review process.

Sincerely,

Permits and Environmental Compliance Division

CDBG-DR/MIT Program

environmentcdbg@vivienda.pr.gov | 787.274.2527

Visit us: www.cdbg-dr.pr.gov

DEPARTAMENTO DE LA
VIVIENDA



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June 1, 2023

Edwin E Muñiz, Field Supervisor
Caribbean Ecological Services Field Office
U.S. Fish and Wildlife Service
P.O. Box 491
Boquerón, Puerto Rico 00622
Email: caribbean@es@fws.gov

Re: Federally Listed Threatened and Endangered Species Evaluation for the Puerto Rico Department of Housing ReGrow PR-RGRW-00599 Project/ SWCA Project No. 72428

Dear Mr. Muñiz:

SWCA Environmental Consultants (SWCA), on behalf of the Puerto Rico Department of Housing, is requesting informal consultation under Section 7(a)(2) of the Endangered Species Act (Act) (87 Stat. 884, as amended; 16 United States Code 1531 *et seq.*), and in accordance with the Fish and Wildlife Coordination Act (47 Stat. 401, as amended; 16 U.S.C. 661 *et seq.*) for the proposed ReGrow PR-RGRW-00599 Project (project). The Project is located on 10.25 acres at Carretera 499 km 1.5, Barrio Buenos Aires, Sector Palmasola, Lares, PR 00669 (center point of parcel is 66.829951°W 18.256772°N). The property is in a rural area, on the border of the Municipios of Lares and Utuado.

The proposed Project involves the construction of a solar panel system and an approximately 5,760 ft² greenhouse. The new greenhouse will be built on a platform. The structure will be prefabricated to the extent possible, and the pieces will be fasted together onsite. The quotes do not indicate the number of anchors to secure the structure in place, so the review will assume up to 6-feet below ground disturbance even though ground leveling and preparation may not be required. Two optional locations are being evaluated for the new greenhouse. No tree clearing is proposed for Option 1; however, Option 2 would require the removal of one or two trees which would be transplanted to another location on the property.

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

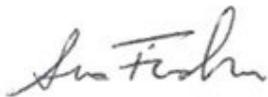
Species	Listing Status
Puerto Rican Broad-winged Hawk (<i>Buteo platypterus brunnescens</i>)	Endangered
Puerto Rican Parrot (<i>Amazona vittate</i>)	Endangered
Puerto Rican Boa (<i>Chilabothrus inornatus</i>)	Endangered

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

Species	Effect Determination	Conservation Measures to be Implemented
Puerto Rican Broad-winged Hawk (<i>Buteo platypterus brunnescens</i>)	No effect (NE)	No Conservation Measures
Puerto Rican Parrot (<i>Amazona vittate</i>)	No effect (NE)	No Conservation Measures
Puerto Rican Boa (<i>Chilabothrus inornatus</i>)	Not likely to adversely affect (NLAA)	Puerto Rican Boa General Project Design Guidelines

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

Sincerely,



Susan Fischer
Wildlife Ecologist
SWCA Environmental Consultants

Attachments: Threatened and Endangered Species Technical Memorandum



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TECHNICAL MEMORANDUM

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

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

Date: March 29, 2023

Re: **Threatened and Endangered Species Evaluation for the Puerto Rico Department of Housing ReGrow PR-RGRW-00599 Project/ SWCA Project No. 72428**

Project Description

AGG Corporation, the applicant, is proposing to construct a solar panel system and an approximately 5,760 ft² greenhouse on a 10.25-acre property in the Municipio of Lares, Puerto Rico (project) (Appendix A, Figure 1). The Project is located at Carretera 499 km 1.5, Barrio Buenos Aires, Sector Palmasola, Lares, Puerto Rico 00669, in a rural area on the border of the Municipios of Lares and Utuado. The solar panels will be installed on the roof of an existing warehouse located in the southeast corner of the parcel. The new greenhouse will be built on a platform and the posts will be secured by concrete footers extending 2 feet deep into ground. Two optional locations are being evaluated for the new greenhouse: Option 1 is located in the southeast corner of the parcel, and Option 2 is located in the northeast corner (Appendix A, Figure 2).

Existing conditions

The existing habitat conditions at the Option 1 location consists of partially open, partially barren land. Option 2 consists of cleared, cultivated land and an existing greenhouse. The two locations are separated by an access road and bordered to the north and south by forest. No clearing or vegetation removal is proposed at the Option 1 location. Minimal clearing is anticipated at the Option 2 location; however, construction of the greenhouse in this location would require the removal of one of the two trees in the proposed Project area. The removed tree would be transplanted to another area of the farm. Representative photographs of the proposed locations are provided in Appendix B.

Federal and State Protected Species

SWCA obtained a federal threatened and endangered species list from the USFWS (2023a) Information for Planning and Consultation (“IPaC”) website for a 100-foot buffer around the two optional Project locations (review area) (Appendix C). The IPaC automatically generates a list of species and other resources of concern, such as critical habitat, that are known or expected to be in the specified area and could potentially be directly or indirectly affected. According to the IPaC query for the project, three federally listed

endangered species have the potential to occur in the review area; the Puerto Rican broad-winged hawk (*Buteo platypterus brunnescens*), the Puerto Rican parrot (*Amazona vittata*), and the Puerto Rican boa (*Chilabothrus inornatus*). SWCA also evaluated the review area for potential habitat for bald eagles (*Haliaeetus leucocephalus*) and golden eagles (*Aquila chrysaetos*) as they are protected by the Bald and Golden Eagle Protection Act of 1940 (“BGEPA”).

SWCA accessed the Puerto Rico Department of Natural and Environmental Resources (PRDNER) Species Ranges, and Puerto Rico State Wildlife Action Plan_a Ten Year Review online mapping databases (PRDNER 2023a, PRDNER 2023b) and referenced the *Puerto Rico State Wildlife Action Plan: Ten Year Review* (PRDNER 2015) to compile a list of state threatened and endangered species with ranges that overlap with the review area. The review identified one state listed species with the potential to occur within the review area: the brown pelican (*Pelecanus occidentalis*).

The bald and golden eagle’s range do not extend into Puerto Rico (Cornell Lab of Ornithology 2023); therefore, these species were eliminated from further analysis for this project. Table 1 identifies the species carried forward for further evaluation and summarizes each species’ habitat requirements, potential for occurrence in the Project area, and determination of effects.

Table 1. Federal and State Listed Species Range and/or Habitat Requirements

Common Name (Scientific Name)	Status*	Range or Habitat Requirements	Potential for Occurrence in Project Area	Determination of Effects/Impact
Birds				
Brown Pelican (<i>Pelecanus occidentalis</i>)	D/EN	The brown pelican is a common resident to Puerto Rico, inhabiting shallow inshore waters, estuaries, and bays, but is also present in inland freshwater reservoirs (Birds of Puerto Rico 2023).	<i>Unlikely to occur.</i> There are waterbodies located in the project area.	<i>No impact.</i> There is no suitable habitat for the brown pelican
Puerto Rican Broad-winged Hawk (<i>Buteo platypterus brunnescens</i>)	FE/CR	The Puerto Rican broad-winged hawk occurs in elfin woodland, sierra palm, caimitillo-granadillo, and tabonuco forest types of the Río Abajo Commonwealth Forest, Carite Commonwealth Forest, and El Yunque National Forest as well as within hardwood plantations, shade coffee plantations, and mature secondary forests (USFWS 2019).	<i>Unlikely to occur.</i> Although there are forested areas located on the periphery of the review area, there are no forested areas present within the Project area. Additionally, the review area does not fall within the PRDNER known range for this species (PRDNER 2023a).	<i>No effect.</i> There is no suitable habitat for Puerto Rican broad-winged hawks in the Project area.
Puerto Rican Parrot (<i>Amazona vittata</i>)	FE/CR	The Puerto Rican parrot is a frugivorous cavity nester. It depends on mature forests with large cavity forming trees. (USFWS). It is currently confined to the Maricao Forest, El Yunque National Forest, and the Río Abajo Forest (USDA Forest Service 2023b).	<i>Unlikely to occur.</i> The Project area is not located within the Maricao Forest, El Yunque National Forest, or the Río Abajo Forest. Additionally, the review area does not fall within the PRDNER known	<i>No effect.</i> There is no suitable habitat for Puerto Rican parrots in the Project area.

Common Name (Scientific Name)	Status*	Range or Habitat Requirements	Potential for Occurrence in Project Area	Determination of Effects/Impact
			range for this species (PRDNER 2023a).	
Reptiles				
Puerto Rican Boa (<i>Chilabothrus inornatus</i>)	FE/CR	Considered to be a habitat generalist, the Puerto Rican boa tolerates a wide variety of terrestrial and arboreal habitats, including rocky areas, haystack hill, trees and branches, rotting stumps, caves, plantations, various types of forested areas such as karst and mangrove forests, forested urban and rural areas, and along streams and road edges (USFWS 2023b).	<i>May occur.</i> The project area is bounded by forested areas to the north and south, and two trees are present within the Option 2 location.	<i>May affect, but not likely to adversely affect.</i> See discussion below.

*Status Definitions:

VU = State listed vulnerable; D = Federally delisted; EN = State listed endangered; FE = Federally listed endangered; CR = State listed critically endangered

Federally Protected Species

Based on a site visit and habitat evaluations, the Puerto Rican broad-winged hawk and Puerto Rican parrot are considered unlikely to occur due to lack of suitable habitat within the Option 1 and Option 2 project areas. Additionally, the review area does not fall within the known range for either of these species (PRDNER 2023a). Therefore, the project will have *no effect* on these two federally listed species. Due to the generalist nature of the Puerto Rican boa, forested habitat surrounding the project areas, and trees present within the Option 2 project area, the Puerto Rican boa may occur within the Option 2 project area. If the Option 2 location is selected, one tree would likely need to be removed and transplanted to another area of the property. The applicant will employ the conservation measures outlined in the USFWS General Project Design Guidelines for the Puerto Rican boa, which is in Appendix D. As such, it is anticipated that the project *may affect, but is not likely to adversely affect* the Puerto Rican boa. The USFWS Consistency Letter obtained through IPaC is included in Appendix E.

State Protected Species

Based on a site visit and habitat evaluations, there is not suitable habitat for the brown pelican within the project area. Therefore, the project will have *no impact* on state listed species.

Critical Habitat and National Wildlife Refuges

Potential effects to habitat(s) within the project area critical to endangered species must be analyzed along with the endangered species themselves, while any activity proposed on National Wildlife Refuge lands must undergo a compatibility determination conducted by the Refuge. No designated critical habitats are present within 100-feet of either of the two project location options (Appendix A, Figure 3) (USFWS 2023b).

LITERATURE CITED

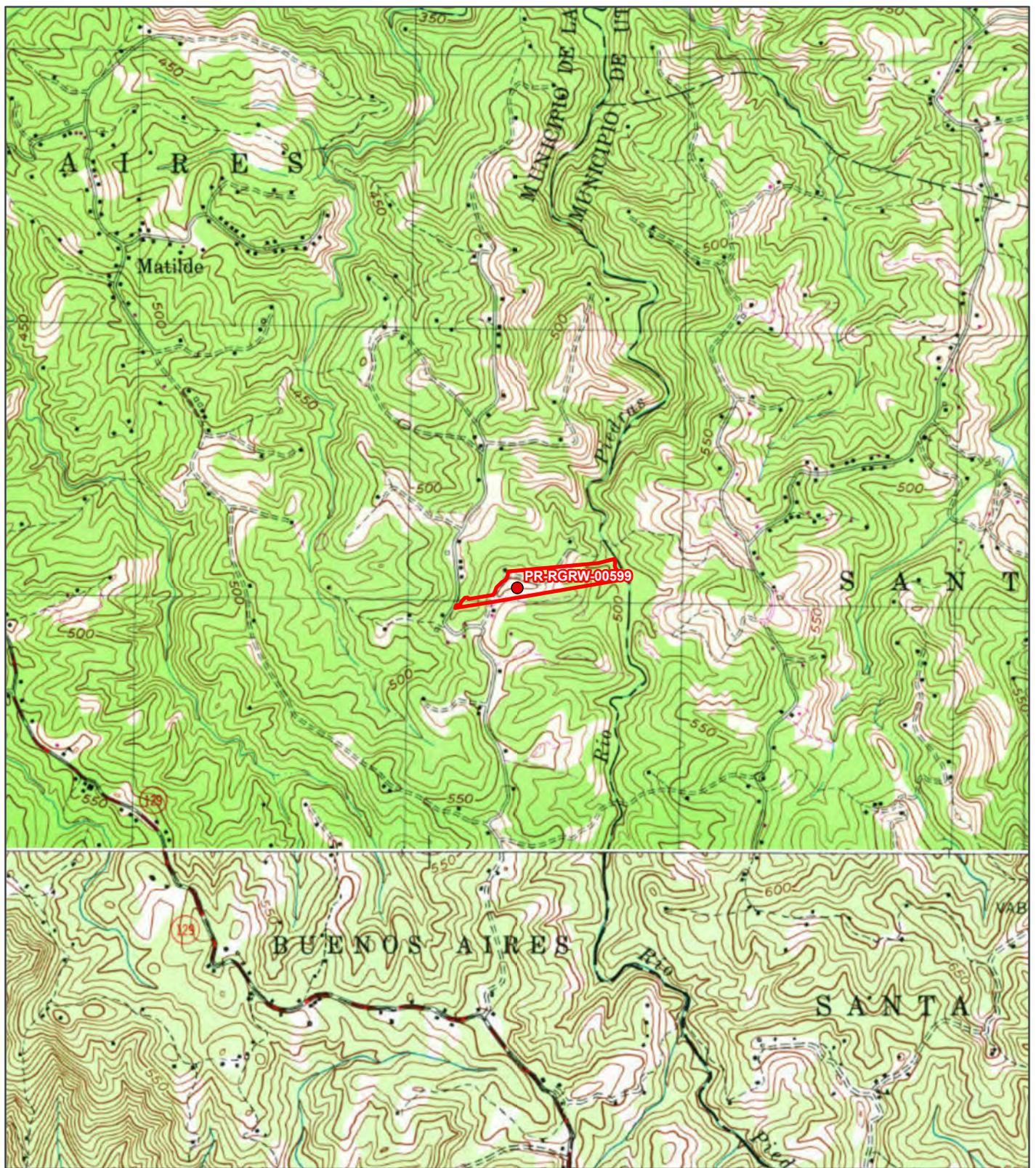
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APPENDIX A

Maps

Figure 1

USGS Topographic Map



REGROW PROGRAM

USGS Topographic Map

Applicant ID: PR-RGRW-00599



- Site
- Site Parcel

499 km 1.5, Bo. Buenos Aires
Sect Palmasola
Lares, Puerto Rico 00669

Parcel ID: 186-078-164-08-000

Parcel Center:
66.829951°W 18.256772°N

Base Map: ESRI ArcGIS Online,
accessed March 2023
Updated: 3/16/2023

Layout: USGS Topographic Map
Aprx: 72428_ReGrowTier2Maps



Figure 2
Site Vicinity Map



REGROW PROGRAM

Site Vicinity Map

Applicant ID: PR-RGRW-00599



- Site
- Site Parcel
- Project Footprint (Options)

499 km 1.5, Bo. Buenos Aires
Sect Palmasola
Lares, Puerto Rico 00669

Parcel ID: 186-078-164-08-000

Parcel Center:
66.829148°W 18.256918°N

Base Map: ESRI ArcGIS Online,
accessed March 2023
Updated: 3/6/2023

Layout: Site Vicinity
Aprx: 72428_ReGrowTier2Maps

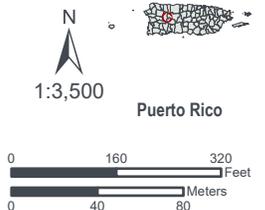


Figure 3

Critical Habitat Map



REGROW PROGRAM

Critical Habitat Map

Applicant ID: PR-RGRW-00599



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

499 km 1.5, Bo. Buenos Aires
Sect Palmasola
Lares, Puerto Rico 00669

Parcel ID: 186-078-164-08-000

Parcel Center:
66.829951°W 18.256772°N

Base Map: ESRI ArcGIS Online,
accessed March 2023
Updated: 3/15/2023

Layout: Critical Habitat
Aprx: 72428_ReGrowTier2Maps



1:2,000



APPENDIX B

Photographic Log

Project #: PR-RGRW-00599	Photographer: Delise Torres-Ortiz
Location Address: Carr. 499 km 1.5, Bo. Buenos Aires Sect Palmasola, Lares, PR 00669	Coordinates: 18.256992, -66.82885

Photo #: 01	Date: 01/30/ 2023	
Photo Direction: SW		
Description: Overview from the Northeast corner of the proposed greenhouse site at Option 1 location.		

Photo #: 02	Date: 01/30/ 2023	
Photo Direction: NW		
Description: Overview from the Southeast corner of the proposed greenhouse site at Option 1 location.		

Project #: PR-RGRW-00599	Photographer: Delise Torres-Ortiz
Location Address: Carr. 499 km 1.5, Bo. Buenos Aires Sect Palmasola, Lares, PR 00669	Coordinates: 18.256992, -66.82885

Photo #: 03	Date: 01/30/ 2023	
Photo Direction: NE		
Description: Overview from the Southwest corner of the proposed greenhouse site at Option 1 location.		

Photo #: 04	Date: 01/30/ 2023	
Photo Direction: SE		
Description: Overview from the Northwest corner of the proposed greenhouse site at Option 1 location.		

Project #: PR-RGRW-00599	Photographer: Delise Torres-Ortiz
Location Address: Carr. 499 km 1.5, Bo. Buenos Aires Sect Palmasola, Lares, PR 00669	Coordinates: 18.256992, -66.82885

Photo #: 05	Date: 01/30/ 2023	
Photo Direction: N		
Description: Overview from center of the proposed greenhouse site at Option 1 location.		

Photo #: 06	Date: 01/30/ 2023	
Photo Direction: E		
Description: Overview from center of the proposed greenhouse site at Option 1 location.		

Project #: PR-RGRW-00599	Photographer: Delise Torres-Ortiz
Location Address: Carr. 499 km 1.5, Bo. Buenos Aires Sect Palmasola, Lares, PR 00669	Coordinates: 18.256992, -66.82885

Photo #: 07	Date: 01/30/ 2023	
Photo Direction: S		
Description: Overview from center of the proposed greenhouse site at Option 1 location.		

Photo #: 08	Date: 01/30/ 2023	
Photo Direction: W		
Description: Overview from center of the proposed greenhouse site at Option 1 location.		

Project #: PR-RGRW-00599	Photographer: Delise Torres-Ortiz
Location Address: Carr. 499 km 1.5, Bo. Buenos Aires Sect Palmasola, Lares, PR 00669	Coordinates: 18.256992, -66.82885

Photo #: 09	Date: 01/30/ 2023	
Photo Direction: NW		
Description: Southeast corner of proposed greenhouse site at Option 2 location.		

Photo #: 10	Date: 01/30/ 2023	
Photo Direction: SW		
Description: Northeast corner of proposed greenhouse site at Option 2 location.		

Project #: PR-RGRW-00599	Photographer: Delise Torres-Ortiz
Location Address: Carr. 499 km 1.5, Bo. Buenos Aires Sect Palmasola, Lares, PR 00669	Coordinates: 18.256992, -66.82885

Photo #: 11	Date: 01/30/ 2023	
Photo Direction: NE		
Description: Southwest corner of proposed greenhouse site at Option 2 location.		

Photo #: 12	Date: 01/30/ 2023	
Photo Direction: SE		
Description: Northwest corner of proposed greenhouse site at Option 2 location.		

Project #: PR-RGRW-00599	Photographer: Delise Torres-Ortiz
Location Address: Carr. 499 km 1.5, Bo. Buenos Aires Sect Palmasola, Lares, PR 00669	Coordinates: 18.256992, -66.82885

Photo #: 13	Date: 01/30/ 2023	
Photo Direction: N		
Description: Overview from the center of proposed greenhouse site at Option 2 location showing existing greenhouse.		

Photo #: 14	Date: 01/30/ 2023	
Photo Direction: E		
Description: Overview from the center of proposed greenhouse site at Option 2 location showing cultivated land and materials for the crops cover under the tarp.		

Project #: PR-RGRW-00599	Photographer: Delise Torres-Ortiz
Location Address: Carr. 499 km 1.5, Bo. Buenos Aires Sect Palmasola, Lares, PR 00669	Coordinates: 18.256992, -66.82885

Photo #: 15	Date: 01/30/ 2023	
Photo Direction: S		
Description: Overview from the center of proposed greenhouse site at Option 2 location showing access road.		

Photo #: 16	Date: 01/30/ 2023	
Photo Direction: W		
Description: Overview from the center of proposed greenhouse site at Option 2 location showing a tree of Capá Prieto from Puerto Rico, crops, and an existing greenhouse.		

APPENDIX C

USFWS Information for Planning and Consultation



United States Department of the Interior



FISH AND WILDLIFE SERVICE
Caribbean Ecological Services Field Office
Post Office Box 491
Boqueron, PR 00622-0491
Phone: (787) 834-1600 Fax: (787) 851-7440
Email Address: CARIBBEAN_ES@FWS.GOV

In Reply Refer To:
Project Code: 2023-0057275
Project Name: PR-RGRW-00599

March 17, 2023

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. To obtain guidance for completing this process and the minimum requirements for project packages, please visit:

<https://www.fws.gov/southeast/pdf/letter/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:

<http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.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

Post Office Box 491
Boqueron, PR 00622-0491
(786) 244-0081

Attachment(s):

- Official Species List
 - USFWS National Wildlife Refuges and Fish Hatcheries
 - 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

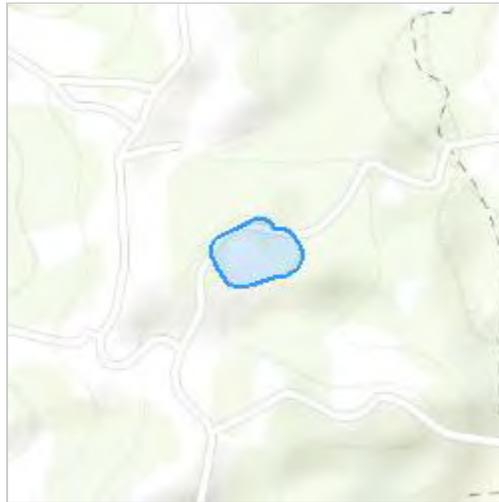
Boqueron, PR 00622-0491

(787) 834-1600

PROJECT SUMMARY

Project Code: 2023-0057275
Project Name: PR-RGRW-00599
Project Type: Restoration / Enhancement - Agricultural
Project Description: Greenhouse installation
Project Location:

The approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/@18.256770799999998,-66.82995849111111,14z>



Counties: Lares County, Puerto Rico

ENDANGERED SPECIES ACT SPECIES

There is a total of 3 threatened, endangered, or candidate species on this species list.

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

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

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

-
1. [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.

BIRDS

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

REPTILES

NAME	STATUS
Puerto Rican Boa <i>Chilabothrus inornatus</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/6628 General project design guidelines: https://ipac.ecosphere.fws.gov/project/BBCXGNRUBFF45JGK2QDR3IV4HI/documents/generated/6941.pdf	Endangered

CRITICAL HABITATS

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

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.

MIGRATORY BIRDS

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

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats should follow appropriate regulations and consider implementing appropriate conservation measures, as described [below](#).

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

MIGRATORY BIRDS FAQ

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

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

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

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

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

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list

of all birds potentially present in your project area, please visit the [Rapid Avian Information Locator \(RAIL\) Tool](#).

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

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

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

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

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

What are the levels of concern for migratory birds?

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

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

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

Details about birds that are potentially affected by offshore projects

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

[Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf](#) project webpage.

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

What if I have eagles on my list?

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

Proper Interpretation and Use of Your Migratory Bird Report

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

WETLANDS

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

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

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

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

IPAC USER CONTACT INFORMATION

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

APPENDIX D

Project Design Guidelines for the Puerto Rican Boa

General Project Design Guidelines (1 Species)

Generated March 17, 2023 07:27 PM UTC, IPaC v6.89.0-rc6

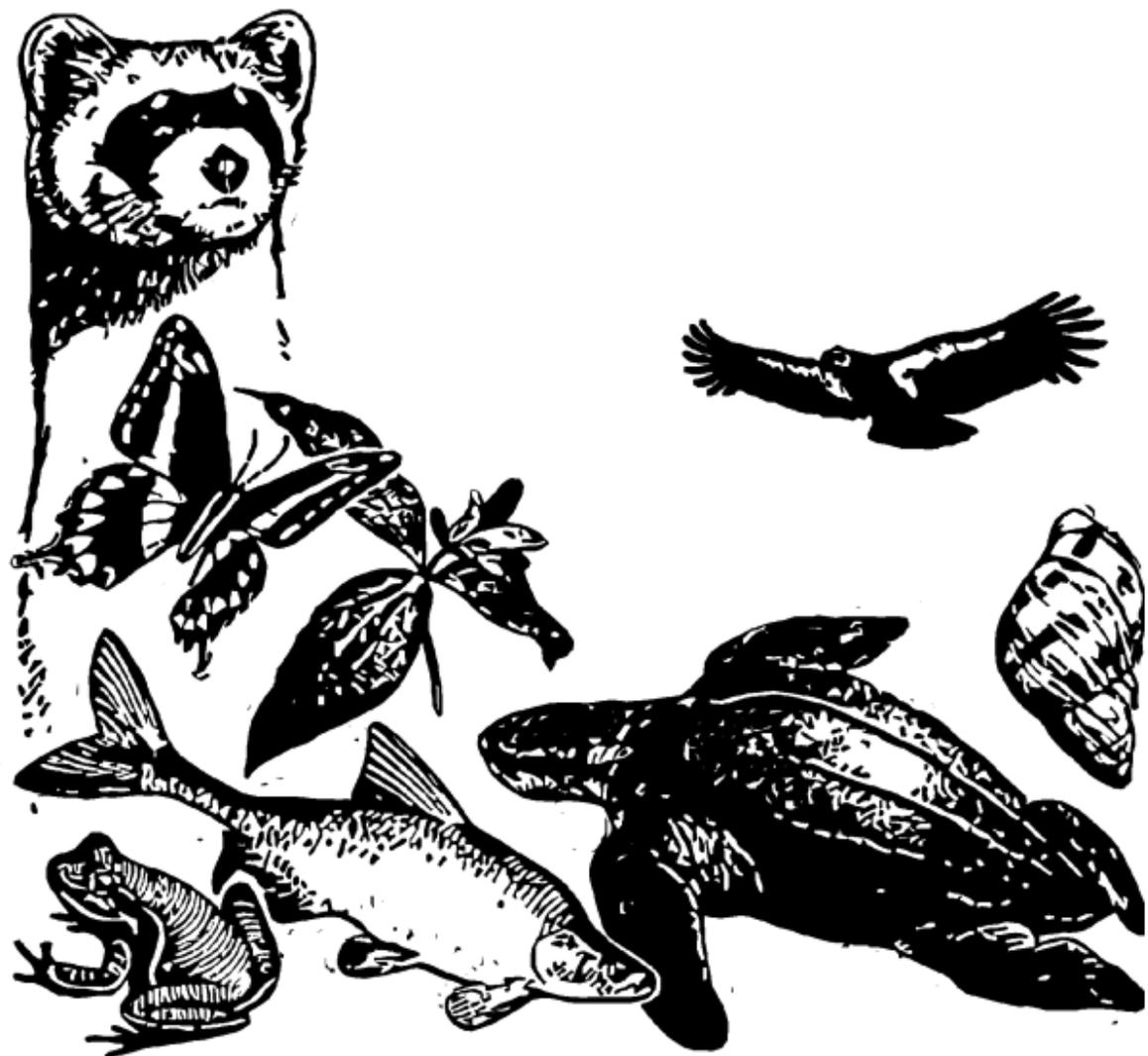


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Species Document Availability

Species with general design guidelines

Puerto Rican Boa *Chilabothrus inornatus*

Species without general design guidelines available

Puerto Rican Broad-winged Hawk *Buteo platypterus brunnescens*

Puerto Rican Parrot *Amazona vittata*

General Project Design Guidelines - Puerto Rican Parrot and 2 more species

Published by Caribbean Ecological Services Field Office for the following species included in your project

Puerto Rican Parrot *Amazona vittata*

Puerto Rican Boa *Chilabothrus inornatus*

Puerto Rican Broad-winged Hawk *Buteo platypterus brunnescens*



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

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

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

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



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

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

Conservation Measures:

1. Inform all project personnel about the potential presence of the PR boa in areas where the proposed work will be conducted. A pre-construction meeting should be conducted to inform all project personnel about the need to avoid harming the species as well as penalties for harassing or harming PR boas. An educational poster or sign with photo or illustration of the species should be displayed at the project site.
2. Prior to any construction activity, including removal of vegetation and earth movements, the boundaries of the project and areas to be excluded and protected should be clearly marked in the project plan and in the field in order to avoid further habitat degradation into forested and conservation areas.
3. Once areas are clearly marked, and prior to the use of heavy machinery and any construction activity (including removal of vegetation and earth movement), a biologist or personnel with experience on this species should survey the areas to be cleared to verify the presence of any PR boa within the work area.
4. The PR boa is considered more active at night. Thus, in order to maximize its detection, the species should be searched at nights prior to habitat disturbance.
5. Once the area has been searched for PR boas, vegetation should first be cleared by hand to the maximum extent possible. Vegetation should be cut about one meter above ground prior to the use of heavy machinery for land clearing. Cutting vegetation by hand will allow boas present on site to move away on their own to adjacent available habitat. Any stone walls or naturally occurring rock piles must be carefully dismantled by hand as these are refuges for the snake. This will allow any boas present to vacate the site without injury.
6. 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.

7. If a PR boa is found within any of the working or construction areas, activities should stop at that area and information recorded (see #6). **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 this 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.
8. If a PR boa is captured by the PRDNER, record the name of the PRDNER staff and information on where the PR boa will be taken. This information should be reported to the Service.
9. 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 #7). If not possible, the animal should be left alone until it leaves the vehicle on its own.
10. PR boas may seek shelter in debris piles. Measures should be taken to avoid and minimize boa casualties associated with sheltering in debris piles as a result of project activities. Debris piles should be placed far away from forested areas. Prior to moving, disposing or shredding, debris piles should be carefully inspected for the presence of boas. If debris piles will be left on site, we recommend they be placed in areas that will not be disturbed in the future.
11. If a dead PR boa is found, immediately cease all work in that area and record the information accordingly (see #6). 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 that 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.
12. Projects must comply with all state laws and regulations. Please contact the PRDNER for further guidance.

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

- Marelisa Rivera, Deputy Field Supervisor
 - Email: marelisa_rivera@fws.gov
 - Office phone (786) 244-0081 or mobile (305) 304-1814
- José Cruz-Burgos, Endangered Species Coordinator
 - Email: jose_cruz-burgos@fws.gov
 - Office phone (786) 244-0081 or mobile (305) 304-1386

APPENDIX E

USFWS Consistency Letter



United States Department of the Interior



FISH AND WILDLIFE SERVICE
Caribbean Ecological Services Field Office
Post Office Box 491
Boqueron, PR 00622-0491
Phone: (787) 834-1600 Fax: (787) 851-7440
Email Address: CARIBBEAN_ES@FWS.GOV

In Reply Refer To:
Project code: 2023-0057275
Project Name: PR-RGRW-00599
IPaC Record Locator: 089-123803079

March 29, 2023

Subject: Consistency letter for the project named 'PR-RGRW-00599' 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 March 29, 2023, Susan Fischer used the Caribbean DKey; dated February 08, 2023, 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-00599'. The project is located in Lares County, Puerto Rico (shown below).

The approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/@18.256770799999998,-66.82995849111111,14z>



The following description was provided for the project 'PR-RGRW-00599':

Greenhouse installation

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 **089-123803079**

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

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.

- Puerto Rican Broad-winged Hawk *Buteo platypterus brunnescens* Endangered
- Puerto Rican Parrot *Amazona vittata* 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.

Action Description

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

1. Name

PR-RGRW-00599

2. Description

The following description was provided for the project 'PR-RGRW-00599':

Greenhouse installation

The approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/@18.256770799999998,-66.82995849111111,14z>



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, etc.)

No

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

No

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

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

No

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

No

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

No

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

No

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

No

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

No

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

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

Yes

11. Is the project area more than 1 acre?

No

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

No

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

Yes

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

Automatically answered

Yes

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

Yes

IPAC USER CONTACT INFORMATION

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

LEAD AGENCY CONTACT INFORMATION

Lead Agency: Department of Housing and Urban Development

Andrea Curbelo-Marty

From: Roman, Damaris <damaris_roman@fws.gov>
Sent: Tuesday, April 11, 2023 8:47 AM
To: susan.fischer@swca.com
Cc: Angel G. Lopez-Guzman; Andrea Curbelo-Marty
Subject: CDBG-DR_RGRW Program case 00599
Attachments: 202300411_CDBG-DR RGRW-00599 SWCA-72428_drr_72081-Gen.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

Ms. Fischer

See attached file regarding the referenced project. Should you have any questions, contact us at caribbean_es@fws.gov

Thanks

**** If you need assistance, please contact me at emails or mobile below. If you are sending a request for technical assistance or Section 7 consultation, please contact us at Caribbean_es@fws.gov****

Need a project evaluation? Please visit our [Consultation Guidelines](#) website.

Cordially,

Damaris Román Ruiz

Biological Science Technician
US Fish and Wildlife Service
Caribbean Ecological Service Field Office
P.O Box 491/Road 301 km 5.1
Boqueron PR 00622

(786) 244-0081
damaris_roman@fws.gov
caribbean_es@fws.gov

Office Homepage: <https://www.fws.gov/southeast/caribbean/>
Facebook: <https://www.facebook.com/USFWSCaribbean?ref=hl>
Flicker: <https://www.flickr.com/photos/usfwssoutheast/sets/72157626859158391/>

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United States Department of the Interior

FISH AND WILDLIFE SERVICE
Caribbean Ecological Services Field Office
PO Box 491
Boquerón, PR 00622



In Reply Refer to:
FWS/R4/CESFO/72081-Gen

Susan Fischer
Wildlife Ecologist
SWCA Environmental Consultants
10245 West Little York Rd., Ste. 600
Houston, Texas 77040

Re: CDBG-DR RGRW-00599/SWCA-72428
Lares, Puerto Rico

Dear Ms. Fischer

Thank you for your letter dated March 30, 2023, requesting comments 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.).

SWCA Environmental Consultants (SWCA), on behalf of the Puerto Rico Department of Housing (applicant) is proposing the construction of a solar panel system and an approximately 5,760 square feet greenhouse. The proposed project location will be at PR-499 Int. KM 1.5, Palmasola sector (18°15'24.4"N 66°49'47.8"W) in the municipality of Villalba, Puerto Rico.

Using the Information for Planning and Consultation (IPaC) system the proponent has determined that the proposed project lies within the range of Puerto Rican boa (*Epicrates inornatus* now known as *Chilabothrus inornatus*), Puerto Rican parrot (*Amazona vittata*) and Puerto Rican broad-winged hawk (*Buteo platypterus brunnescens*).

Based on the nature of the project, scope of work, information available, and a careful analysis of the existing habitat, SWCA has determined that the proposed project may affect, but is not likely to adversely affect the Puerto Rican boa and will be implementing Puerto Rican boa conservation measures prior to and during the construction to avoid or minimize impacts to the specie. As for the Puerto Rican broad-winged hawk and Puerto Rican parrot a no effect (NE) determination was made.

We have reviewed the information provided in your letter and our files, and concur with your determination that the proposed project may affect, but is not likely to adversely affect the Puerto Rican boa with the implementation of the conservation measures.

We acknowledge receipt of your NE determination for the Puerto Rican broad-winged and Puerto Rican parrot. Currently we do not have any information to refute your determination. Because you made a NE determination, you are not required to conduct formal or informal section 7 consultation with the Service, and the Service is not required to concur with your NE determination.

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

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 or by phone at (786) 244-0081.

Sincerely yours,

Edwin E. Muñiz
Field Supervisor

drr
cc:
P.R. Department of Housing



REGROW PROGRAM

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

Applicant ID: PR-RGRW-00599

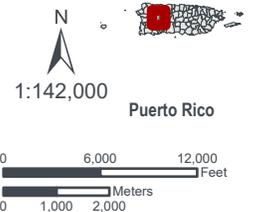


- Site
- Site Parcel
- Buffer (100-ft)
- Critical Habitat - Final
- Critical Habitat - Proposed
- National Wildlife Refuges

499 km 1.5, Bo. Buenos Aires
Sect Palmasola
Lares, Puerto Rico 00669

Parcel ID: 186-078-164-08-000
Parcel Center:
66.838103°W 18.249077°N

Data Source: https://services.arcgis.com/QVENGdaPbd4LUkLV/arcgis/rest/services/USFWS_Critical_Habitat/
Base Map: ESRI ArcGIS Online, accessed May 2023
Updated: 5/26/2023
Layout: Critical Habitat
Aprx: 72428_ReGrowTier2Maps



Attachment 8
Explosive and Flammable Hazards Partner
Worksheet



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

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

Explosive and Flammable Hazards (CEST and EA) – PARTNER

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

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

No

→ Continue to Question 2.

Yes

Explain:

Click here to enter text.

→ Continue to Question 5.

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

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

Yes → Continue to Question 3.

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

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

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

Yes → Continue to Question 4.

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

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

Yes

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

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

No

→ *Continue to Question 6.*

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

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

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

Yes

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

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

No

→ *Continue to Question 6.*

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

6. For the project to be brought into compliance with this section, all adverse impacts must be mitigated. Explain in detail the exact measures that must be implemented to make the Separation Distance acceptable, including the timeline for implementation. If negative effects cannot be mitigated, cancel the project at this location.

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

[Click here to enter text.](#)

Worksheet Summary

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

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

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

The project includes the construction of a greenhouse nursery and solar panels for farming. The project itself is not the development of a hazardous facility nor will the project increase residential densities. Project activities are therefore an exempt activity. No further evaluation is required.

Attachment 9

Farmlands Protection Partner Worksheet and Prime Farmland Map



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

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

Farmlands Protection (CEST and EA) - PARTNER

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

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

Yes → Continue to Question 2.

No

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

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

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

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

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

Yes → Continue to Question 3.

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

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

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

Project will proceed with mitigation.

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

Click here to enter text.

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

Project will proceed without mitigation.

Explain why mitigation will not be made here:

Click here to enter text.

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

Worksheet Summary

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

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

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

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



REGROW PROGRAM

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

Applicant ID: PR-RGRW-00599



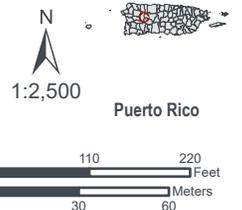
- Site
- Site Parcel
- Project Footprint (Option)
- All areas are prime farmland
- Farmland of statewide importance
- Farmland of statewide importance, if irrigated
- Prime farmland if drained

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

499 km 1.5, Bo. Buenos Aires
Sect Palmasola
Lares, Puerto Rico 00669

Parcel ID: 186-078-164-08-000
Parcel Center:
66.829951°W 18.256772°N

Data Source: <https://websoilsurvey.nrcs.usda.gov/app/>
Base Map: ESRI ArcGIS Online,
accessed May 2023
Updated: 5/26/2023
Layout: Prime Farmland
Aprx: 72428_ReGrowTier2Maps



Attachment 10

Floodplain Management Partner Worksheet and Advisory Base Flood Elevation Map



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

Floodplain Management (CEST and EA) – PARTNER

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

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

Yes

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

[Click here to enter text.](#)

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

No → Continue to Question 2.

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

The Federal Emergency Management Agency (FEMA) designates floodplains. The [FEMA Map Service Center](#) provides this information in the form of FEMA Flood Insurance Rate Maps (FIRMs).

Does your project occur in a floodplain?

No → Continue to the Worksheet Summary below.

Yes

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

Floodway → Continue to Question 3, Floodways

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

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

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

3. **Floodways**

Is this a functionally dependent use?

Yes

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

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

4. Coastal High Hazard Area

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

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

- No

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

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

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

- No, this action concerns only existing construction.

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

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

5. 500-year Floodplain

Is this a critical action?

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

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

6. 8-Step Process.

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

- 8-Step Process applies.

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

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

- 5-Step Process is applicable per 55.12(a)(1-3).

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

[Click here to enter text.](#)

→ *Work with the RE/HUD to assist with the 5-Step Process. Continue to Worksheet Summary.*

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

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

Click here to enter text.

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

Worksheet Summary

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

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

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

A review of the Advisory Base Flood Elevation (ABFE) map, Community Panel 72000C0590H (effective date 04/19/2005), shows the 10.59-acre project site is in Flood Zone X. The project is not located in the 100-year floodplain or special flood hazard area; therefore, no further action is required.



REGROW PROGRAM

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

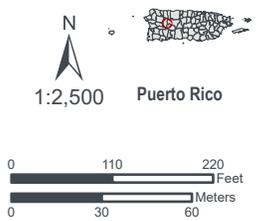
Applicant ID: PR-RGRW-00599



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

499 km 1.5, Bo. Buenos Aires Sect
Palmasola
Lares, Puerto Rico 00669
Parcel ID: 186-078-164-08-000
Parcel Center:
66.829951°W 18.256772°N

Data Source: https://gis.fema.gov/arcgis/rest/services/DR/PuertoRico_ABFE_1PCT/MapServer
Base Map: ESRI ArcGIS Online, accessed May 2023
Updated: 5/26/2023
Layout: ABFE 1Pct
Aprx: 72428_ReGrowTier2Maps



Attachment 11

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



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

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

Historic Preservation (CEST and EA) – PARTNER

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

Threshold

Is Section 106 review required for your project?

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

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

Click here to enter text.

→ *Continue to the Worksheet Summary.*

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

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

Click here to enter text.

→ *Continue to the Worksheet Summary.*

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

The Section 106 Process

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

Step 1: Initiate consultation

Step 2: Identify and evaluate historic properties

Step 3: Assess effects of the project on historic properties

Step 4: Resolve any adverse effects

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

Step 1 - Initiate Consultation

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

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

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

→ Continue to Step 2.

Step 2 - Identify and Evaluate Historic Properties

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

Project Location: Carretera 499, KM 1.5, Bo. Buenos Aires Sect Palmasola, Lares, PR 00669

The applicant has identified three locations for project activities:

- Greenhouse (Option 1): 18.256649, -66.830000
- Greenhouse (Option 2): 18.256860, -66.830141
- Warehouse Solar Panels: 18.256697, -66.829639

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 comprised of all activity footprints plus a 15-meter horizontal buffer at each to allow for some variation in final placement during construction. The visual APE is the viewshed of the proposed project.

See SHPO consultation package for more information.

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

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

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

Archaeology- Existing information on previously identified historic properties has been reviewed to determine if any such properties are located within the APE of this undertaking. The review of this existing information by a Program contracted archaeologist meeting the Secretary of the Interior's Professional Qualification Standards (36 CFR Part 61) who searched the records at the SHPO and the Instituto de Cultura Puertorriqueña which shows that there are no reported archaeological materials or significant cultural properties within a half-mile (mi) radius of the project location.

The proposed project is in an agricultural area near Highway 499 in Lares within the Cordillera Central mountain chain at an elevation of 1,817 feet (ft; 554 meters [m]) above mean sea level. The three activity locations are situated on a previously leveled hilltop surrounded by moderate to steep downhill slopes with native and upland vegetation varieties and residential houses further to the west and south. Per the USGS/NRCS Web Soil Survey, the project areas including APE are within one mapped soil series: HmF2 –Humatas clay, 40 to 60 percent slopes. The closest freshwater sources are two Rio Angeles tributaries, located approximately 1,140 ft (347 m) east of the warehouse solar panel building and 2,065 ft (630 m) west of Greenhouse Option 1. The north coast is approximately 16.04 mi (25.82 km) from the project area.

Architecture- Existing information on previously identified historic properties has been reviewed to determine if any such properties are located within the APE of this undertaking. The review of this existing information, by a Program contracted Historic Preservation Specialist meeting the Secretary of the Interior's Professional Qualification Standards (36 CFR Part 61) shows that the project area is not within the boundaries of the National Register of Historic Places (NRHP)-eligible or listed Traditional Urban Center or Historic District. No Section 106 surveys have occurred in the review area, and there are no historic sites.

There are two existing permanent buildings on the property within visual sight of the proposed activities. One is the applicant's house approximately 125 ft west from Greenhouse Option 1, which first appears on 2018 Google Earth imagery and is currently undergoing expansion using private funds. The second is the warehouse that will house the solar panels, which is first seen on Google Earth imagery in September, 2012. Buildings to the south of the project site do not appear on 1968 aerial imagery (<https://www.historicaerials.com/viewer>) except for one building that appears to be in ruins today. The rest of the buildings to the south and west are not within direct visual sight of the project activity area due to vegetation and the terrain.

See SHPO Consultation for more information.

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.

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

The site was visited on January 30, 2023 by an SOI-qualified Archaeologist. Records review and research were conducted at the SHPO and the Institute for Puerto Rican Culture (ICP) to determine if any archaeologically sensitive resources could be present within a 0.5-mile radius.

The results of the Record Search and the Site Inspection indicate that there are no historic properties or cultural resources within the 0.50-mile radius study area or within the project APE.

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 determination was submitted to SHPO by PRDOH for concurrence on April 10, 2023 and SHPO concurred with the No Historic Properties Affected determination on April 14, 2023.

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

April 14, 2023

Lauren Bair Poche

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

SHPO 04-10-23-13 SECTION 106 NHPA EFFECT DETERMINATION SUBMITTAL:
PR-RGRW-00599 – AGG CORPORATION – CARRETERA 499, KM 1.5, BO.
BUENOS AIRES, SECT PALMASOLA, LARES, PUERTO RICO

Dear Ms. Bair,

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

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

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

Sincerely,

Carlos A. Rubio-Cancela
State Historic Preservation Officer

CARC/GMO/MB



April 10, 2023

Carlos A. Rubio Cancela
Director Ejecutivo
Oficina Estatal de Conservación Histórica
Cuartel de Ballajá (Tercer Piso)
San Juan, PR 00902-3935

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

Section 106 NHPA Effect Determination Submittal: PR-RGRW-00599 – AGG Corporation – Carretera 499, KM 1.5, Bo. Buenos Aires, Sect Palmasola, Lares, Puerto Rico – *No Historic Properties Affected*

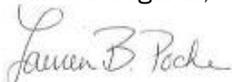
Dear Architect Rubio Cancela,

In accordance with Section 106 of the National Historic Preservation Act and its implementing regulations, 36 CFR Part 800, HORNE is providing information for your review and requesting your concurrence regarding the above-referenced projects on behalf of the Puerto Rico Department of Housing (PRDOH) and the Home Repair, Reconstruction, or Relocation (R3) Program. On February 9, 2018, an allocation of Community Development Block Grant - Disaster Recovery (CDBG-DR) funds was approved by the United States Department of Housing and Urban Development (HUD) under the Federal Register Volume 83, No. 28, 83 FR 5844, to assist the Commonwealth of Puerto Rico in meeting unmet needs in the wake of Hurricanes Irma and Maria. On August 14, 2018, an additional \$8.22 billion recovery allocation was allocated to Puerto Rico under the Federal Register Volume 83, No. 157, 83 FR 40314. With these funding allocations, the Puerto Rico Department of Housing (Housing) aims to lead a comprehensive and transparent recovery for the benefit of Puerto Rico residents.

On behalf of PRDOH and the subrecipient, the Puerto Rico Department of Agriculture, we are submitting documentation for activities proposed by AGG Corporation at Carretera 499, KM 1.5 in Sector Palmasola in Bo. Buenos Aires of the municipality of Lares. The proposed project includes constructing one new greenhouse at one of two locations and the installation of a solar panel system onto an existing warehouse roof that was constructed circa 2012. Based on the submitted documentation, the Program requests a concurrence that a determination of No Historic Properties Affected is appropriate for this proposed project.

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

Kindest regards,



Lauren Bair Poche, M.A.

Architectural Historian, Historic Preservation Senior Manager
Attachments

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM REGROW PUERTO RICO PROGRAM Section 106 NHPA Effect Determination		
Applicant: AGG Corporation		
Case ID: PR-RGRW-00599	City: Lares	

Project Location: Carretera 499, KM 1.5, Bo. Buenos Aires Sect Palmasola, Lares, PR 00669	
Project Coordinates (as provided by applicant during field visit): Greenhouse (Option 1): 18.256649, -66.830000 Greenhouse (Option 2): 18.256860, -66.830141 Warehouse Solar Panels: 18.256697, -66.829639	
TPID (Número de Catastro): 186-078-164-08-000	
Type of Undertaking: <input type="checkbox"/> Substantial Repair/Improvements <input checked="" type="checkbox"/> New Construction	
Construction Date (AH est.): Warehouse ca. 2012; Residence ca. 2018.	Property Size: 10.25 acres (ac) Greenhouse: 0.124 ac; Warehouse 0.046 ac

SOI-Qualified Architect/Architectural Historian: Erin Edwards
Date Reviewed: March 28, 2023
SOI-Qualified Archaeologist: Delise Torres-Ortiz and Rob Lackowicz
Date Reviewed: March 29, 2023

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

Project Description (Undertaking)

The proposed project includes the construction and installation of a 5,760 square foot (sq. ft) greenhouse (32-ft by 180-ft) at one of two locations and the installation of a solar panel system onto an existing warehouse roof. Both activities are located within an active agricultural farm. Based on a review of historical aerial imagery at <https://www.historicaerials.com/viewer>, the general area has been used for agriculture since at least 1959, the earliest date for which aerial data is present.

The new greenhouse will be mainly prefabricated with the pieces fasted together onsite and installed onto a concrete platform, secured with an unspecified number of anchors. Greenhouse Option 1 is in the southwest corner of the parcel and immediately west of the existing warehouse where the solar panels will be installed; Greenhouse Option 2 is located approximately 55 ft to its north, adjacent to an existing greenhouse. Greenhouse Option 1 will not require any vegetation clearing. Greenhouse Option 2 may require two small trees to be removed which the applicant intends to transplant to another location. Construction plans were not available but based on current site conditions tree removal, site preparation

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM REGROW PUERTO RICO PROGRAM Section 106 NHPA Effect Determination	
Applicant: AGG Corporation	
Case ID: PR-RGRW-00599	City: Lares

/ grading, footer installation for the platform and installation of anchors would not exceed six ft total depth in any location. Outside of these activities the project will have minimal ground disturbance. An aboveground irrigation system will be installed using diverted rainwater to new aboveground cisterns located within the assessed APE that will be purchased using private funds. There is an existing belowground electrical system with an aboveground connection at the Option 1 location (also within the direct APE) that will power the greenhouse and irrigation pumps, shown in Photo 4.

The solar panels will be installed on the roof of an existing warehouse located immediately east of Greenhouse Option 1. The entire roof was analyzed for solar panel installation to account for any shifts required during installation. Approximately 2,000 sq ft of the roof will be covered by twenty-six (26) 3-foot by 4-foot panels. The solar panels will provide electricity to the existing cooler in the warehouse through an aboveground inverter and battery that will also be installed inside the warehouse. There will be no land disturbance from this project activity.

The applicant owns the property; therefore, no acquisition is required.

Area of Potential Effects

As defined in 36 CFR §800.16(d), the area of potential effects (APE) is the geographic area or areas within which an undertaking may directly or indirectly cause changes in the character or use of historic properties if any such properties exist. Based on this definition and the nature and scope of the Undertaking, the Program has determined that the direct APE for this project is comprised of all activity footprints plus a 15-meter horizontal buffer at each to allow for some variation in final placement during construction. The visual APE is the viewshed of the proposed project.

Identification of Historic Properties - Archaeology

Existing information on previously identified historic properties has been reviewed to determine if any such properties are located within the APE of this undertaking. The review of this existing information by a Program contracted archaeologist meeting the Secretary of the Interior’s Professional Qualification Standards (36 CFR Part 61) who searched the records at the SHPO and the Instituto de Cultura Puertorriqueña which shows that there are no reported archaeological materials or significant cultural properties within a half-mile (mi) radius of the project location.

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM REGROW PUERTO RICO PROGRAM Section 106 NHPA Effect Determination	
Applicant: AGG Corporation	
Case ID: PR-RGRW-00599	City: Lares

The proposed project is in an agricultural area near Highway 499 in Lares within the Cordillera Central mountain chain at an elevation of 1,817 feet (ft; 554 meters [m]) above mean sea level. The three activity locations are situated on a previously leveled hilltop surrounded by moderate to steep downhill slopes with native and upland vegetation varieties and residential houses further to the west and south. Per the USGS/NRCS Web Soil Survey, the project areas including APE are within one mapped soil series: HmF2 –Humatas clay, 40 to 60 percent slopes. The closest freshwater sources are two Rio Angeles tributaries, located approximately 1,140 ft (347 m) east of the warehouse solar panel building and 2,065 ft (630 m) west of Greenhouse Option 1. The north coast is approximately 16.04 mi (25.82 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 the National Register of Historic Places (NRHP)-eligible or listed Traditional Urban Center or Historic District . No Section 106 surveys have occurred in the review area, and there are no historic sites.

There are two existing permanent buildings on the property within visual sight of the proposed activities. One is the applicant’s house approximately 125 ft west from Greenhouse Option 1, which first appears on 2018 Google Earth imagery and is currently undergoing expansion using private funds. The second is the warehouse that will house the solar panels, which is first seen on Google Earth imagery in September, 2012. Buildings to the south of the project site do not appear on 1968 aerial imagery (<https://www.historicaerials.com/viewer>) except for one building that appears to be in ruins today. The rest of the buildings to the south and west are not within direct visual sight of the project activity area due to vegetation and the terrain.

Determination

The following historic properties have been identified within the APE:

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

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM REGROW PUERTO RICO PROGRAM Section 106 NHPA Effect Determination	
Applicant: AGG Corporation	
Case ID: PR-RGRW-00599	City: Lares

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-00599 is located. The closest freshwater body is a Rio Angeles tributary approximately 1,140 ft (347 m) east of the nearest project area. The size of the proposed project activities is small (0.17 acres total) and previous construction of residential structures and agricultural infrastructure has impacted the surrounding terrain. Therefore, no impact to cultural properties is anticipated for this reconstruction project.

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM REGROW PUERTO RICO PROGRAM Section 106 NHPA Effect Determination		
Applicant: AGG Corporation		
Case ID: PR-RGRW-00599	City: Lares	

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

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

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

This Section is to be Completed by SHPO Staff Only

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



Applicant: AGG Corporation

Case ID: PR-RGRW-00599

City: Lares

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



REGROW PROGRAM

Project Location Area of Potential Effects (APE) Map

Applicant ID: PR-RGRW-00599



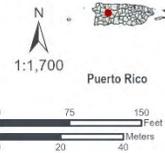
- Site
- ▭ Site Parcel
- ▭ Project Footprint (Option)
- ▭ APE (Buffer (15-meters))

499 km 1.5, Bo. Buenos Aires
Sect Palmasola
Lares, Puerto Rico 00669

Parcel ID: 186-078-164-08-000

Parcel Center:
66.829951°W 18.256772°N

Base Map: ESRI ArcGIS Online,
accessed March 2023
Updated: 3/28/2023
Layout: APE
Apx. 72428_ReGrowTercMApps



Applicant: AGG Corporation

Case ID: PR-RGRW-00599

City: Lares

Project (Parcel) Location - Aerial Map



REGROW PROGRAM

Figure A-2:
Site Vicinity

Applicant ID: PR-RGRW-00599



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

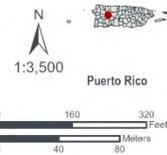
499 km 1.5, Bo. Buenos Aires
Sect Palmasola
Lares, Puerto Rico 00669

Parcel ID: 186-078-164-08-000

Parcel Center:
66.829148°W 18.256918°N

Base Map: ESRI ArcGIS Online
accessed March 2023
Updated: 3/23/2023

Layout: Site Vicinity
Aprx: 72428_ReGrowTier2Maps



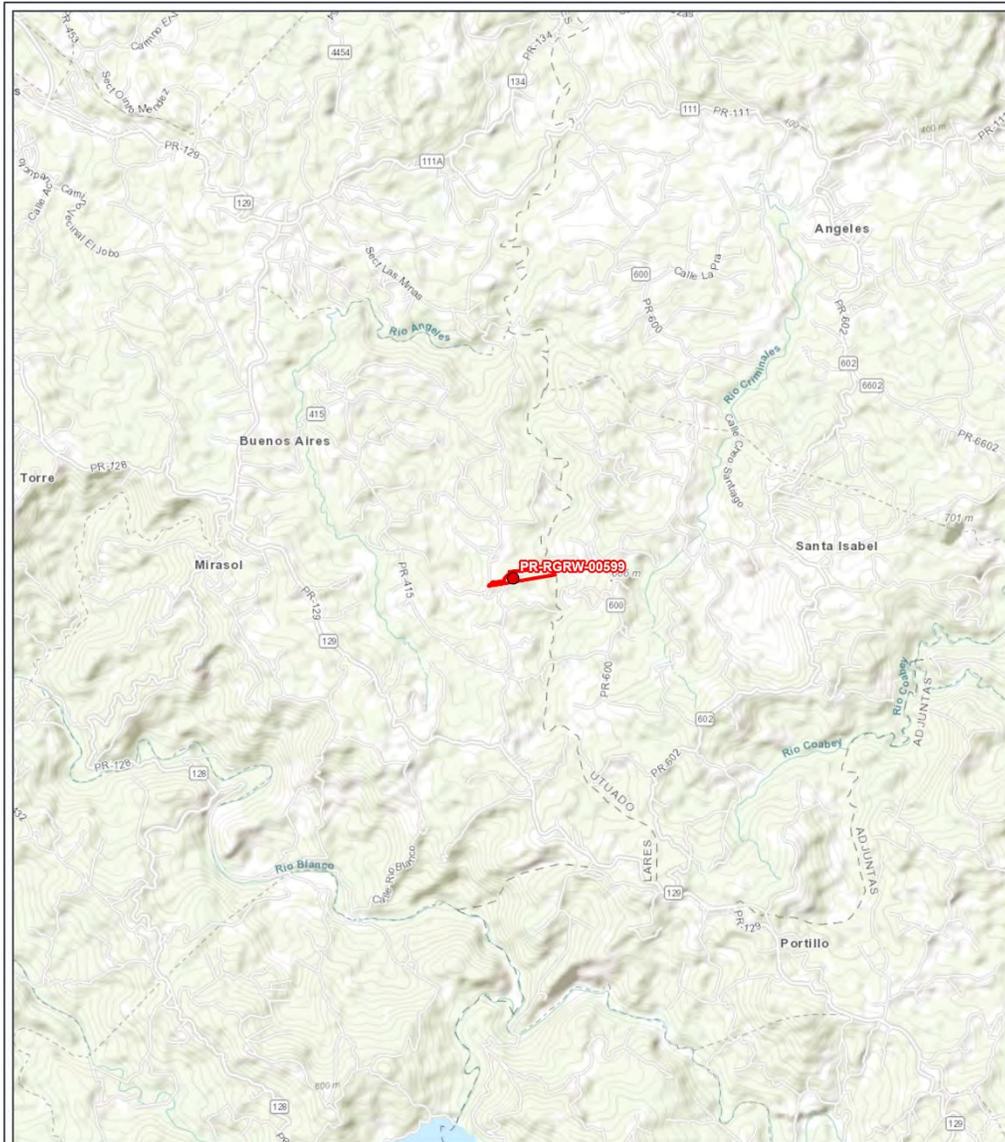


Applicant: AGG Corporation

Case ID: PR-RGRW-00599

City: Lares

Project (Parcel) Location - USGS Topographic Map



REGROW PROGRAM
**Figure A-1:
Site Location**
Applicant ID: PR-RGRW-00599



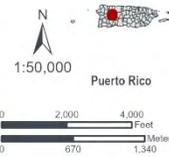
- Site
- ▭ Site Parcel

499 km 1.5, Bo. Buenos Aires
Sect Palmasola
Lares, Puerto Rico 00669

Parcel ID: 186-078-164-08-000

Parcel Center:
66.829951°W 18.256772°N

Base Map: ESRI ArcGIS Online
accessed March 2023
Updated: 3/23/2023
Layout: Site Location
Aprx: 72428_ReGrowTier2Maps





Applicant: AGG Corporation

Case ID: PR-RGRW-00599

City: Lares

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



Mapunit Symbol	Mapunit Name
HmF2	Humatas clay, 40 to 60 percent slopes

REGROW PROGRAM

USDA Soils Map

Applicant ID: PR-RGRW-00599



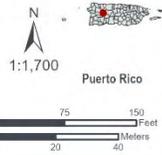
- Site
- ▭ Site Parcel
- ▭ Project Footprint (Option)
- ▭ Soil Mapunit

499 km 1.5, Bo. Buenos Aires
Sect Palmasola
Lares, Puerto Rico 00669

Parcel ID: 186-078-164-08-000

Parcel Center:
66.829951°W 18.256772°N

Base Map: ESRI ArcGIS Online,
accessed March 2023
Updated: 3/28/2023
Layout: Soils
Apx. 72428_ReGrowTier2Maps



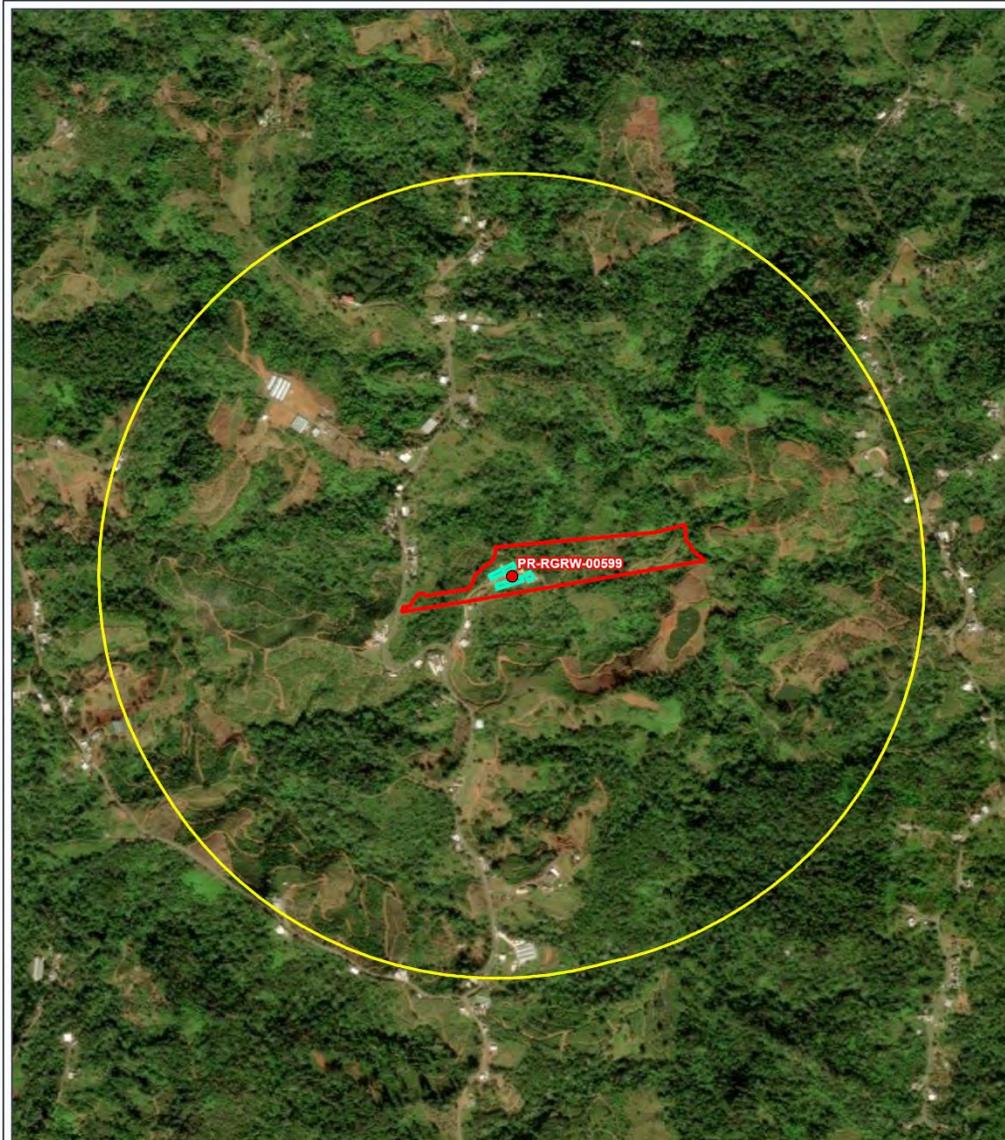


Applicant: AGG Corporation

Case ID: PR-RGRW-00599

City: Lares

Project (Parcel) Location with Previous Investigations - Aerial Map



REGROW PROGRAM

Previous Investigation Map

Applicant ID: PR-RGRW-00599



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

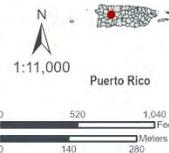
499 km 1.5, Bo. Buenos Aires
Sect Palmasola
Lares, Puerto Rico 00669

Parcel ID: 186-078-164-08-000

Parcel Center:
66.829951°W 18.256772°N

Base Map: ESRI ArcGIS Online,
accessed March 2023
Updated: 3/19/2023

Layout: Previous Investigation
App: T2429_RegGrowTier2Maps





Applicant: AGG Corporation

Case ID: PR-RGRW-00599

City: Lares

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



<p>REGROW PROGRAM</p> <p>Previously Recorded Cultural Resources Map</p> <p>Applicant ID: PR-RGRW-00599</p>	<ul style="list-style-type: none"> ● Site Site Parcel Buffer (0.5-mile) ▲ Archaeological Site ★ Historic Area Point ☆ JP Historical Sites ● National Register of Historic Places ● National Historic Landmark National Register of Historic Places Historic Community Historic District Arroyo Historic Zone Caguas Historic Zone Coamo Historic Zone Guayama Historic Zone Manati Historic Zone Miramar Historic Zone Ponce Historic Zone San German Historic Zone San Juan Historic Zone Vega Baja Historic Zone Traditional Urban Centers 	<p>499 km 1.5, Bo. Buenos Aires Sect Palmasola Lares, Puerto Rico 00669</p> <p>Parcel ID: 186-078-164-08-000</p> <p>Parcel Center: 66.829951°W 18.256772°N</p> <p>Base Map: ESRI ArcGIS Online, accessed March 2023 Updated: 3/10/23</p> <p>Layout: Cultural Resources Aprx: 72428_ReGrowTier2Maps</p>	<p>1:12,000</p> <p>Puerto Rico</p> <p>0 560 1,120 0 160 320 Feet Meters</p>
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Applicant: AGG Corporation

Case ID: PR-RGRW-00599

City: Lares

Photograph Key



Applicant: AGG Corporation

Case ID: PR-RGRW-00599

City: Lares



Photo #: 1

Description (include direction): Overview of both greenhouse site options, view to southwest.

Date: 1/30/23



Photo #: 2

Description (include direction): Overview of both greenhouse site options, view to northwest.

Date: 1/30/23

Applicant: AGG Corporation

Case ID: PR-RGRW-00599

City: Lares



Photo #: 3

Description (include direction): Existing warehouse where solar panels will be installed on roof, view to the southeast.

Date: 1/30/23



Photo #: 4

Description (include direction): Existing irrigation piping system and electrical connections, view to the west

Date: 1/30/23

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM

REGROW PUERTO RICO PROGRAM

Section 106 NHPA Effect Determination



Applicant: AGG Corporation

Case ID: PR-RGRW-00599

City: Lares



Photo #: 5

Description (include direction): Applicant's residence from center of Greenhouse Option 1, view to the west

Date: 1/30/23



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.

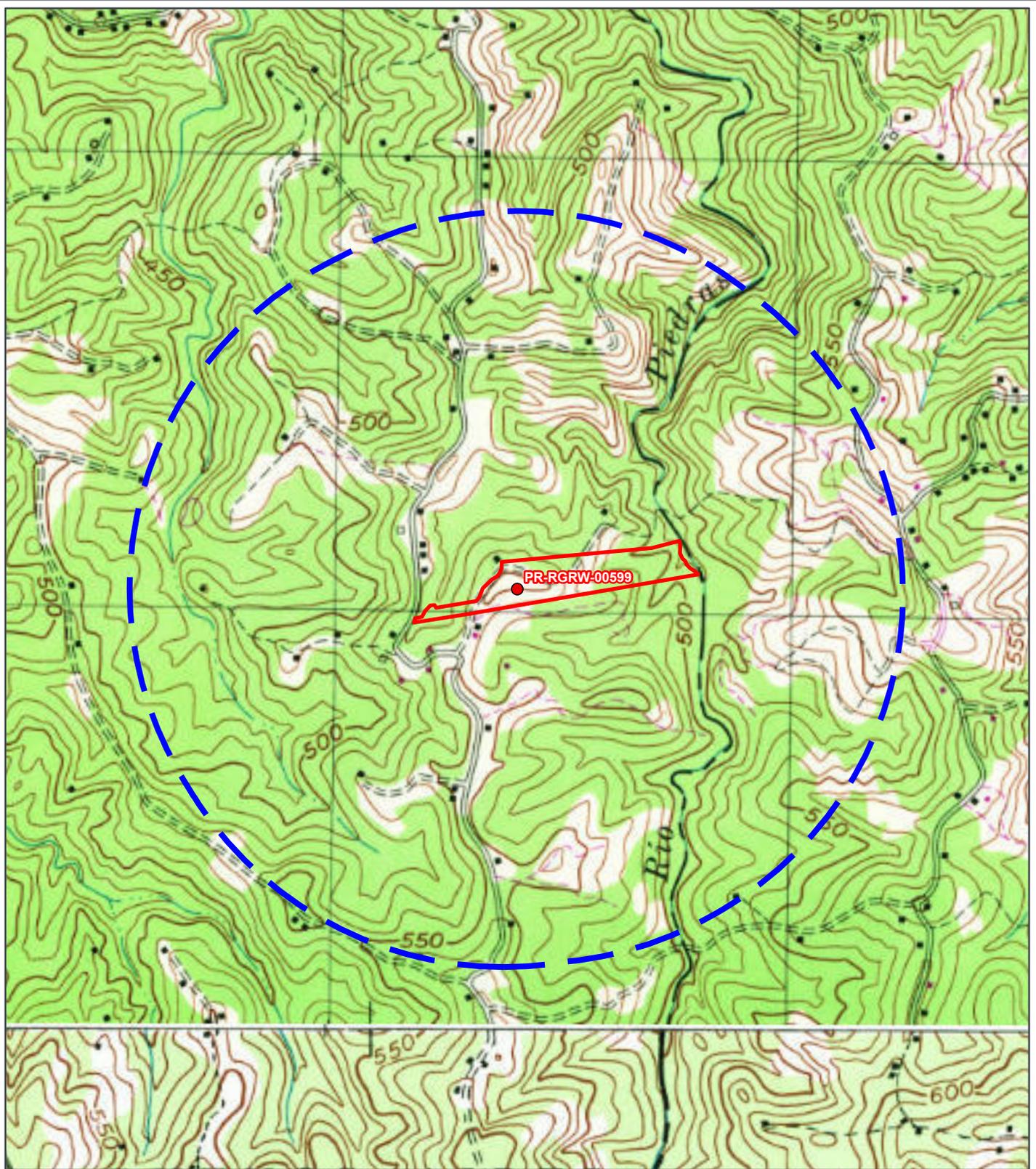
In line to expedite the processes, Horne Federal LLC, is authorized to submit to the State Historic Preservation Officer, documentation of projects related to both the CDBG-DR and CDBG-MIT on behalf of PRDOH.

Cordially,

Juan C. Pérez Bofill, P.E. M.Eng

Director of Disaster Recovery

CDBG DR-MIT



REGROW PROGRAM

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

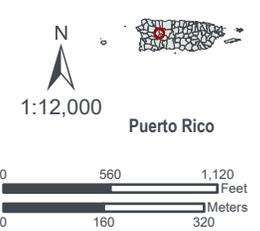
Applicant ID: PR-RGRW-00599



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

499 km 1.5, Bo. Buenos Aires
Sect Palmasola
Lares, Puerto Rico 00669
Parcel ID: 186-078-164-08-000
Parcel Center:
66.829951°W 18.256772°N

Data Source: https://mapservices.nps.gov/arcgis/rest/services/cultural/resources/nrhp_locations/MapServer
https://sigejp.pr.gov/servlet/rest/services/JP_Reglamentario/MapServer
Base Map: ESRI ArcGIS Online, accessed May 2023
Updated: 5/26/2023
Layout: Cultural Resources



Attachment 12

Wetlands Protection Partner Worksheet and Wetland Map



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

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

Wetlands (CEST and EA) – Partner

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

1. Does this project involve new construction as defined in Executive Order 11990, expansion of a building’s footprint, or ground disturbance?

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

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

Yes → *Continue to Question 2.*

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

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

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

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

No, the 8-Step Process applies.

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

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

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

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

[Click here to enter text.](#)

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

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

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

[Click here to enter text.](#)

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

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

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

[Click here to enter text.](#)

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

Worksheet Summary

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

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

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

The project site was reviewed for wetlands using the USFWS Wetland Inventory Mapper and a visual confirmation during the field site inspection. No wetlands were identified on the site.



REGROW PROGRAM

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

Applicant ID: PR-RGRW-00599



- Site
- Site Parcel
- Project Footprint (Option)
- NHD Stream
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Riverine

499 km 1.5, Bo. Buenos Aires
Sect Palmasola
Lares, Puerto Rico 00669

Parcel ID: 186-078-164-08-000
Parcel Center:
66.829951°W 18.256772°N

Data Source: <https://apps.nationalmap.gov/downloader/#/>
<https://www.fws.gov/program/national-wetlands-inventory/data-download>
Base Map: ESRI ArcGIS Online, accessed May 2023
Updated: 5/30/2023
Layout: Wetlands Protection

N

1:2,500

Puerto Rico



REGROW PROGRAM

**Figure B 14-2:
Wetlands Protection
Map**

Applicant ID: PR-RGRW-00599



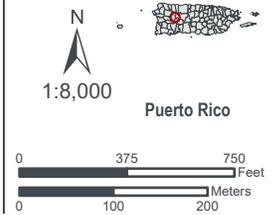
- Site
- Site Parcel
- - - NHD Stream
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Riverine

499 km 1.5, Bo. Buenos Aires
Sect Palmasola
Lares, Puerto Rico 00669

Parcel ID: 186-078-164-08-000
Parcel Center:
66.833254°W 18.257485°N

Data Source: <https://apps.nationalmap.gov/downloader/#/>
<https://www.fws.gov/program/national-wetlands-inventory/data-download>
Base Map: *ESRI ArcGIS Online*,
accessed July 2023
Updated: 7/28/2023
Layout: Wetlands ProtectionV2



Attachment 13

Wild and Scenic Rivers Partner Worksheet and Wild and Scenic Rivers Map

Wild and Scenic Rivers (CEST and EA) – PARTNER

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

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

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

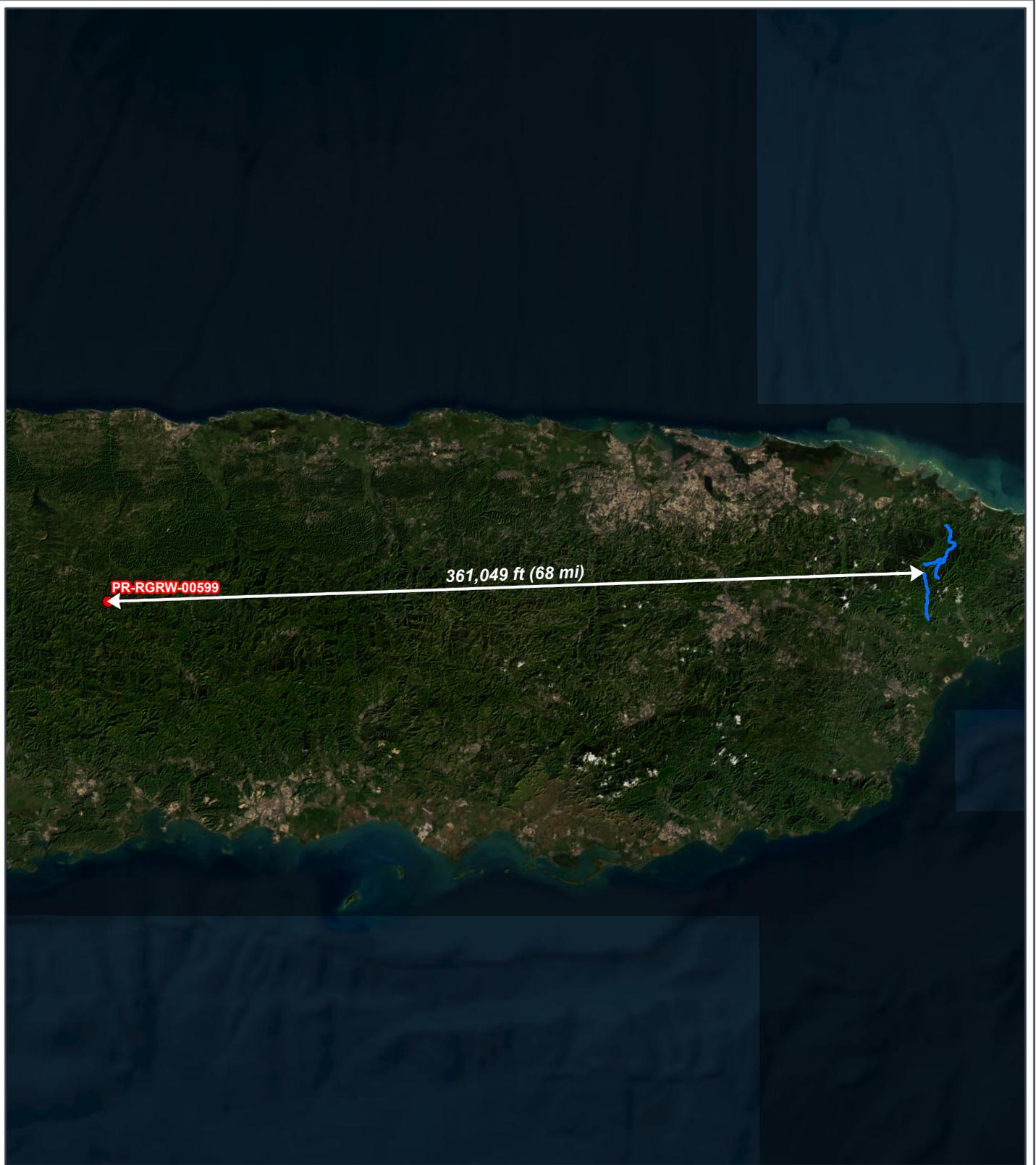
Provide a clear description of your determination and a synopsis of the information that it was based on, such as:

- 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 Lares. The closest Wild and Scenic River segment is 68 miles east of the project site. Project activities are therefore an exempt activity. No further evaluation is required.

Are formal compliance steps or mitigation required?

- Yes
 No



REGROW PROGRAM

**Figure B 15-1:
National Wild and
Scenic River Map**

Applicant ID: PR-RGRW-00599



- Site
- National Wild and Scenic River

499 km 1.5, Bo. Buenos Aires
Sect Palmasola
Lares, Puerto Rico 00669

Parcel ID: 186-078-164-08-000
Parcel Center:
66.309943°W 18.274733°N

Data Source: https://apps.fs.usda.gov/arcx/rest/services/EDW/EDW_WildScenicRiverSegments_01/MapServer

Base Map: *ESRI ArcGIS Online*,
accessed *May 2023*
Updated: 5/30/2023
Layout: Wild and Scenic Rivers

1:735,000

Puerto Rico

0 30,000 60,000 Feet
0 9,000 18,000 Meters

Attachment 14
Environmental Justice Partner Worksheet
and EJScreen Report



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

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

Environmental Justice (CEST and EA) – PARTNER

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

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

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

Yes → *Continue to Question 2.*

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

2. Were these adverse environmental impacts disproportionately high for low-income and/or minority communities?

Yes

Explain:

Click here to enter text.

→ *The RE/HUD must work with the affected low-income or minority community to decide what mitigation actions, if any, will be taken. Provide any supporting documentation.*

No

Explain:

Click here to enter text.

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

Worksheet Summary

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

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

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

The ReGrow Program intends to alleviate negative economic impacts to, and strengthen, the agricultural industry in Puerto Rico. The project's direct and indirect impacts are limited to a small area on a single land parcel. The project will benefit the farm owner by improving agricultural production. The Project would not facilitate development which would negatively affect human health or result in disproportionate adverse environmental impacts to low-income or minority populations.

1 mile Ring around the Area, PUERTO RICO, EPA Region 2

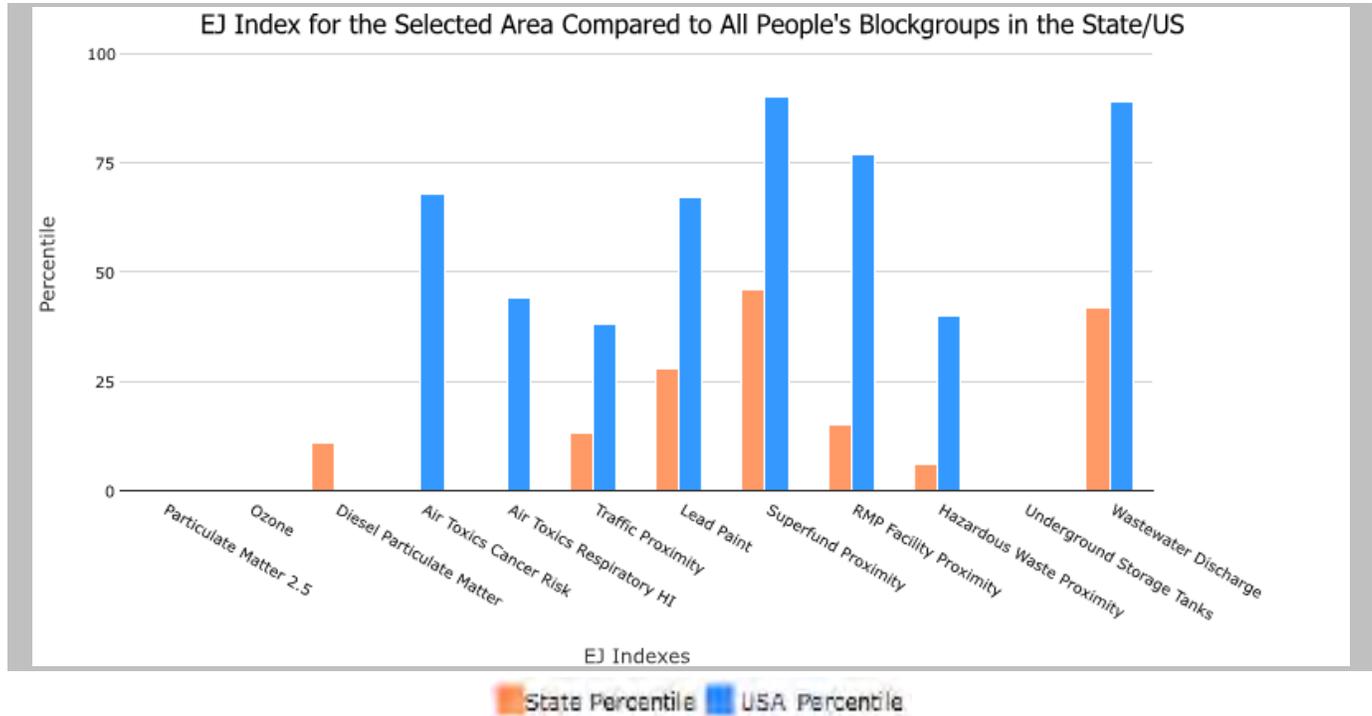
Approximate Population: 884

Input Area (sq. miles): 4.02

PR-RGRW-00599

Selected Variables	State Percentile	USA Percentile
Environmental Justice Indexes		
Particulate Matter 2.5 EJ index	N/A	N/A
Ozone EJ index	N/A	N/A
Diesel Particulate Matter EJ index*	11	0
Air Toxics Cancer Risk EJ index*	0	68
Air Toxics Respiratory HI EJ index*	0	44
Traffic Proximity EJ index	13	38
Lead Paint EJ index	28	67
Superfund Proximity EJ index	46	90
RMP Facility Proximity EJ index	15	77
Hazardous Waste Proximity EJ index	6	40
Underground Storage Tanks EJ index	0	0
Wastewater Discharge EJ index	42	89

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.



*Diesel particular 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>.

EJScreen Report (Version 2.11)



1 mile Ring around the Area, PUERTO RICO, EPA Region 2

Approximate Population: 884

Input Area (sq. miles): 4.02

PR-RGRW-00599



Sites reporting to EPA	
Superfund NPL	0
Hazardous Waste Treatment, Storage, and Disposal Facilities (TSDF)	0

EJScreen Report (Version 2.11)



1 mile Ring around the Area, PUERTO RICO, EPA Region 2

Approximate Population: 884

Input Area (sq. miles): 4.02

PR-RGRW-00599

Selected Variables	Value	State Avg.	%ile in State	USA Avg.	%ile in USA
Pollution and Sources					
Particulate Matter 2.5 ($\mu\text{g}/\text{m}^3$)	N/A	N/A	N/A	8.67	N/A
Ozone (ppb)	N/A	N/A	N/A	42.5	N/A
Diesel Particulate Matter* ($\mu\text{g}/\text{m}^3$)	0.0156	0.108	10	0.294	<50th
Air Toxics Cancer Risk* (lifetime risk per million)	20	23	0	28	<50th
Air Toxics Respiratory HI*	0.2	0.21	0	0.36	<50th
Traffic Proximity (daily traffic count/distance to road)	10	610	12	760	9
Lead Paint (% Pre-1960 Housing)	0.033	0.14	26	0.27	22
Superfund Proximity (site count/km distance)	0.067	0.15	41	0.13	53
RMP Facility Proximity (facility count/km distance)	0.18	0.97	13	0.77	34
Hazardous Waste Proximity (facility count/km distance)	0.05	0.9	6	2.2	9
Underground Storage Tanks (count/km ²)	0	1.7	0	3.9	0
Wastewater Discharge (toxicity-weighted concentration/m distance)	0.0024	5	50	12	57
Socioeconomic Indicators					
Demographic Index	90%	83%	63	35%	98
Supplemental Demographic Index	51%	44%	68	15%	99
People of Color	99%	99%	30	40%	96
Low Income	81%	72%	62	30%	97
Unemployment Rate	13%	15%	52	5%	89
Limited English Speaking Households	76%	68%	67	5%	99
Less Than High School Education	34%	22%	81	12%	93
Under Age 5	4%	4%	65	6%	45
Over Age 64	18%	20%	35	16%	59
Low Life Expectancy	N/A	99900%	N/A	20%	N/A

EJScreen is a screening tool for pre-decisional use only. It can help identify areas that may warrant additional consideration, analysis, or outreach. It does not provide a basis for decision-making, but it may help identify potential areas of EJ concern. Users should keep in mind that screening tools are subject to substantial uncertainty in their demographic and environmental data, particularly when looking at small geographic areas. Important caveats and uncertainties apply to this screening-level information, so it is essential to understand the limitations on appropriate interpretations and applications of these indicators. Please see EJScreen documentation for discussion of these issues before using reports. This screening tool does not provide data on every environmental impact and demographic factor that may be relevant to a particular location. EJScreen outputs should be supplemented with additional information and local knowledge before taking any action to address potential EJ concerns.

1 mile Ring around the Area, PUERTO RICO, EPA Region 2

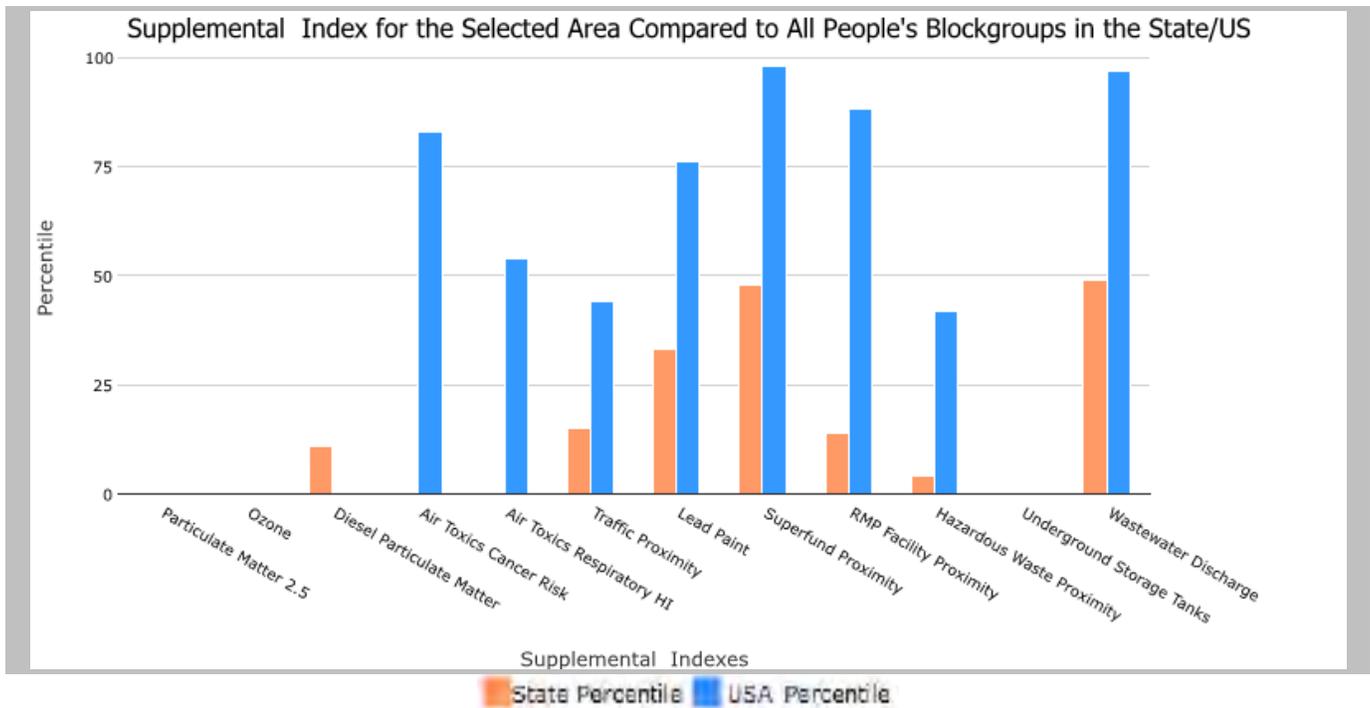
Approximate Population: 884

Input Area (sq. miles): 4.02

PR-RGRW-00599

Selected Variables	State Percentile	USA Percentile
Supplemental Indexes		
Particulate Matter 2.5 Supplemental Index	N/A	N/A
Ozone Supplemental Index	N/A	N/A
Diesel Particulate Matter Supplemental Index*	11	0
Air Toxics Cancer Risk Supplemental Index*	0	83
Air Toxics Respiratory HI Supplemental Index*	0	54
Traffic Proximity Supplemental Index	15	44
Lead Paint Supplemental Index	33	76
Superfund Proximity Supplemental Index	48	98
RMP Facility Proximity Supplemental Index	14	88
Hazardous Waste Proximity Supplemental Index	4	42
Underground Storage Tanks Supplemental Index	0	0
Wastewater Discharge Supplemental Index	49	97

Supplemental Indexes - The supplemental indexes offer a different perspective on community-level vulnerability. They combine data on low-income, limited English speaking, less than high school education, unemployed, and low life expectancy populations with a single environmental indicator.



This report shows the values for environmental and demographic indicators, EJScreen indexes, and supplemental indexes. It shows environmental and demographic raw data (e.g., the estimated concentration of ozone in the air), and also shows what percentile each raw data value represents. These percentiles provide perspective on how the selected block group or buffer area compares to the entire state, EPA region, or nation. For example, if a given location is at the 95th percentile nationwide, this means that only 5 percent of the US population has a higher block group value than the average person in the location being analyzed. The years for which the data are available, and the methods used, vary across these indicators. Important caveats and uncertainties apply to this screening-level information, so it is essential to understand the limitations on appropriate interpretations and applications of these indicators. Please see EJScreen documentation for discussion of these issues before using reports. For additional information, see: www.epa.gov/environmentaljustice.

Appendix C
Environmental Site Inspection Report

Pre-Site Visit Environmental Questionnaire

Project Name:	AGG Corporation
Application ID:	PR-RGRW-00599
Applicant Name:	AGG Corporation
Address:	Carr. 499 km 1.5, Bo. Buenos Aires Sect Palmasola, Lares, PR 00669
Coordinates:	18.256992, -66.82885
Cadastral Number:	186-078-164-08-000
Municipio:	Lares

Property Information
<p>Current use of the property? The property is being used to produce different crops, and there are two main structures in the property; one is their residence, and the other is a structure used for packing the products (40x50ft) and is also used as a warehouse.</p>
<p>Is the site currently vacant/undeveloped? Are there any existing structures on the property that will be removed for the project? The site location for the greenhouse is vacant and partially covered with a sort of black sheeting to prevent erosion. There are no structures that need to be removed.</p>
<p>Are there any known environmental hazards on or adjacent to the property? No environmental hazards on or adjacent to the property.</p>
Project Activities
<p>What are all the proposed activities funded for this project? The applicant is proposing to rebuild the greenhouse, install solar panels, and a vehicle to continue producing.</p>
<p>What is the purpose and need for the project? “The purpose is to rebuild what was before Hurricane Maria. Before Maria, there was a greenhouse that produced five different types of lettuce, including romaine, coriander, basil, and kale. This will help to satisfy the demand or the need for the product. We have a cooler in the existing structure running 24 hours, but we had to stop using it because the electricity bill was too high, and we were not producing enough product to cover the cost. The installation of solar panels will help to provide electricity at a cost efficiency so we can store and preserve the produces to be sold.”</p>

<p>What are the dimensions of all project components? (Total project footprint - acres, depth, width, linear feet, sq ft, workspaces)</p> <p>Solar panels: using half of the existing roof on the warehouse/cooler/garage structure, covering around 40x50 ft. with 26 panels of 3x4ft.</p> <p>Greenhouse: 30 x 180ft.</p>
<p>Construction Activities</p>
<p>Detailed description of construction activities:</p> <p>Contractors or specialists will do both projects. The greenhouse will be done “one day to another” (which means they drop the materials one day, and the next, they build it). They still have some materials that Hurricane Maria left, like pipes, arches, and tables.</p> <p>The greenhouse will be 40 to 50 ft. away from the residence because the house is still under construction (expanding).</p>
<p>Where will additional workspace and construction work area occur on the site? (e.g., construction laydown areas)</p> <p>No additional workspaces or construction work area will occur on the site. The materials will be stored inside the existing warehouse structure.</p>
<p>Do you have any construction plans or site plans for the project?</p> <p>No site plans.</p>
<p>Will the project require the installation or improvement of site infrastructure and utilities (i.e, roads, water/sewer/electric utility, etc.)?</p> <p>The greenhouse will need an irrigation system installation. There are connectivity areas to plug in the pumps for the irrigation systems, but they need to verify with an electrician the safety of the connections. They plan to use the rainwater to irrigate the crops using, eventually, canals to be directed to cisterns. They also want to reuse or recycle the water used in the greenhouse for the rest of the farm.</p>
<p>Any tree clearing required for the construction or installation of the project?</p> <p>No, the site location is clear, but it needs some pruning. The second option for the greenhouse will need the removal of one of the two trees in this area. They plan to transplant the removed tree to another part of the farm -one is a Capá Prieto (from Puerto Rico) and a Guanacaste (not from Puerto Rico).</p>

What is the extent of ground disturbances? Vegetation removal?

No extended ground disturbance because the area is ready to rebuild the greenhouse; there is some pruning and removal of what was left from Hurricane Maria.

Has any work been started on the project? If so, what activities have been performed, include date started and completed. Please include work/activities not being funded through CDBG funds.

No work has been done.

How will construction debris from the project, if any, be disposed?

They don't expect any debris from the preferred site location, but if any it will be around the farm.

Were alternative sites identified or evaluated prior to site selection?

There is another option for the greenhouse. This option is between the main access road inside the property and an existing greenhouse. The area is not vacant; it's cultivated. For the greenhouse construction, they probably need to remove one of the two trees in this area. They plan to transplant the removed tree to another part of the farm.

Additional Studies

Have any additional special studies (e.g., wetland delineation, cultural resources survey, Asbestos, lead-based paint assessments, mold inspections, etc.) been completed? If so, please include a copy of assessment results with your response

Soils surveys to see the acidity when they started to cultivate the land.

Additional Notes

This document was completed in the field; I couldn't make it before inspecting because I could not find their phone number, just their email.



ENVIRONMENTAL FIELD ASSESSMENT FORM
ReGrow

Applicant Name: AGG Corporation	Program ID: PR-RGRW-00599
Project Coordinates: 18.256992, -66.82885	Parcel ID: 186-078-164-08-000
Parcel Address: Carr. 499 km 1.5, Bo. Buenos Aires Sect Palmasola	Municipio: Lares, PR
Zip Code: 00669	

Inspector Name: Delise Torres Ortiz	Inspection Date: 01/30/2023
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General Site Conditions

Was property accessible by vehicle?	Yes	Comment:
Access issues?	Yes	Comment: None / Examples of manual entry: Locked gate
Are water wells present?	No	Comment:
Are creeks or ponds present?	No	Comment:
Are any potential wetlands on-site or visible on adjacent parcel?	No	Comment:

Parcel Conditions

Note – for Any Yes answers specify type, contents and location

Are commercial or industrial hazardous facilities at parcel or within visual sight?	No	Comment:
Are there signs of underground storage tanks?	No	Comment:
Are above-ground tanks >10 gallons present? If Yes, also state condition.	No	Comment:
Are 55-gallon drums present? If Yes, also state condition.	No	Comment:
Are abandoned vehicles or electrical equipment present?	Yes	Comment:



ENVIRONMENTAL FIELD ASSESSMENT FORM
ReGrow

Is other potential environmentally hazardous debris on the parcel?	No	Comment:
Is there non-environmentally hazardous debris on the parcel?	No	Comment:
Are any leaks, soil stains, or stressed vegetation present associated with any of the above or separately?	No	Comment:
Are there any pungent, foul or noxious odors?	No	Comment:
Are there any potentially hazardous trees that could fall?	No	Comment:
Are any bird nests visible?	No	Comment:
Are there any animal burrows visible?	No	Comment:

Additional Needs Analysis

Based on the above findings, does additional information need to be obtained from the applicant to determine whether an environmental hazard is present?	No	Comment:
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I verify that I have physically visited this property and that the findings outlined above are accurate.

Inspector Signature
{Delise Torres-Ortiz}
{01/30/2023}



Project #: PR-RGRW-00599

Photographer: Delise Torres-Ortiz

Location Address: Carr. 499 km 1.5, Bo. Buenos Aires
Sect Palmasola, Lares, PR 00669

Coordinates: 18.256992, -66.82885

Frame #	View	Description
01	SE	Overview of site locations – solar panels on the structures roof.
02	SW	Overview of site locations – greenhouse.
03	SW	Overview from the Northeast corner of existing structure – roof will be used to set solar panels.
04	SE	Overview from the Northwest corner of existing structure – roof will be used to set solar panels.
05	NW	Overview from the Southeast corner of existing structure – roof will be used to set solar panels.
06	NW	Overview from the Southeast corner of existing structure (outside) – roof will be used to set solar panels.
07	NE	Overview from the Southwest corner of existing structure – roof will be used to set solar panels.
08	NE	Overview from the Southwest corner of existing structure (outside) – roof will be used to set solar panels.
09	SW	Overview from the Northeast corner of the proposed greenhouse site location (first option).
10	NW	Overview from the Southeast corner of the proposed greenhouse site location (first option).
11	NE	Overview from the Southwest corner of the proposed greenhouse site location (first option).
12	W	Applicant’s residence – under construction.
13	SE	Overview from the Northwest corner of the proposed greenhouse site location (first option).
14	N	Overview from center of site location – greenhouse first option.
15	E	Overview from center of site location – greenhouse first option.
16	S	Overview from center of site location – greenhouse first option.
17	W	Overview from center of site location – greenhouse first option.

18	NW	Existing irrigation system and electrical connections – out of service due to Hurricane Maria.
19	SW	Existing irrigation system and electrical connections – out of service due to Hurricane Maria.
20	NW	Southeast corner of second site location option for the greenhouse - overview.
21	SW	Northeast corner of second site location option for the greenhouse - overview.
22	NE	Southwest corner of second site location option for the greenhouse - overview.
23	SE	Northwest corner of second site location option for the greenhouse – overview.
24	N	Overview from the center of the second site location option for the greenhouse showing existing greenhouse.
25	E	Overview from the center of the second site location option for the greenhouse showing cultivated land and materials for the crops cover under the tarp.
26	S	Overview from the center of the second site location option for the greenhouse showing access road.
27	W	Overview from the center of the second site location option for the greenhouse showing a tree of Capá Prieto from Puerto Rico, crops, and an existing greenhouse.

Project #: PR-RGRW-00599	Photographer: Delise Torres-Ortiz
Location Address: Carr. 499 km 1.5, Bo. Buenos Aires Sect Palmasola, Lares, PR 00669	Coordinates: 18.256992, -66.82885

Photo #: 01	Date: 01/30/ 2023	
Photo Direction: SE		
Description: Overview of site locations – solar panels on the structures roof.		

Photo #: 02	Date: 01/30/ 2023	
Photo Direction: SW		
Description: Overview of site locations – greenhouse.		

Project #: PR-RGRW-00599	Photographer: Delise Torres-Ortiz
Location Address: Carr. 499 km 1.5, Bo. Buenos Aires Sect Palmasola, Lares, PR 00669	Coordinates: 18.256992, -66.82885

Photo #: 03	Date: 01/30/ 2023	
Photo Direction: SW		
Description: Overview from the Northeast corner of existing structure – roof will be used to set solar panels.		

Photo #: 04	Date: 01/30/ 2023	
Photo Direction: SE		
Description: Overview from the Northwest corner of existing structure – roof will be used to set solar panels.		

Project #: PR-RGRW-00599	Photographer: Delise Torres-Ortiz
Location Address: Carr. 499 km 1.5, Bo. Buenos Aires Sect Palmasola, Lares, PR 00669	Coordinates: 18.256992, -66.82885

Photo #: 05	Date: 01/30/ 2023	
Photo Direction: NW		
Description: Overview from the Southeast corner of existing structure – roof will be used to set solar panels.		

Photo #: 06	Date: 01/30/ 2023	
Photo Direction: NW		
Description: Overview from the Southeast corner of existing structure (outside) – roof will be used to set solar panels.		

Project #: PR-RGRW-00599	Photographer: Delise Torres-Ortiz
Location Address: Carr. 499 km 1.5, Bo. Buenos Aires Sect Palmasola, Lares, PR 00669	Coordinates: 18.256992, -66.82885

Photo #: 07	Date: 01/30/ 2023	
Photo Direction: NE		
Description: Overview from the Southwest corner of existing structure – roof will be used to set solar panels.		

Photo #: 08	Date: 01/30/ 2023	
Photo Direction: NE		
Description: Overview from the Southwest corner of existing structure (outside) – roof will be used to set solar panels.		

Project #: PR-RGRW-00599	Photographer: Delise Torres-Ortiz
Location Address: Carr. 499 km 1.5, Bo. Buenos Aires Sect Palmasola, Lares, PR 00669	Coordinates: 18.256992, -66.82885

Photo #: 09	Date: 01/30/ 2023	
Photo Direction: SW		
Description: Overview from the Northeast corner of the proposed greenhouse site location (first option).		

Photo #: 10	Date: 01/30/ 2023	
Photo Direction: NW		
Description: Overview from the Southeast corner of the proposed greenhouse site location (first option).		

Project #: PR-RGRW-00599	Photographer: Delise Torres-Ortiz
Location Address: Carr. 499 km 1.5, Bo. Buenos Aires Sect Palmasola, Lares, PR 00669	Coordinates: 18.256992, -66.82885

Photo #: 11	Date: 01/30/ 2023	
Photo Direction: NE		
Description: Overview from the Southwest corner of the proposed greenhouse site location (first option).		

Photo #: 12	Date: 01/30/ 2023	
Photo Direction: W		
Description: Applicant's residence – under construction.		

Project #: PR-RGRW-00599	Photographer: Delise Torres-Ortiz
Location Address: Carr. 499 km 1.5, Bo. Buenos Aires Sect Palmasola, Lares, PR 00669	Coordinates: 18.256992, -66.82885

Photo #: 13	Date: 01/30/ 2023	
Photo Direction: SE		
Description: Overview from the Northwest corner of the proposed greenhouse site location (first option).		

Photo #: 14	Date: 01/30/ 2023	
Photo Direction: N		
Description: Overview from center of site location – greenhouse first option.		

Project #: PR-RGRW-00599	Photographer: Delise Torres-Ortiz
Location Address: Carr. 499 km 1.5, Bo. Buenos Aires Sect Palmasola, Lares, PR 00669	Coordinates: 18.256992, -66.82885

Photo #: 15	Date: 01/30/ 2023	
Photo Direction: E		
Description: Overview from center of site location – greenhouse first option.		

Photo #: 16	Date: 01/30/ 2023	
Photo Direction: S		
Description: Overview from center of site location – greenhouse first option.		

Project #: PR-RGRW-00599	Photographer: Delise Torres-Ortiz
Location Address: Carr. 499 km 1.5, Bo. Buenos Aires Sect Palmasola, Lares, PR 00669	Coordinates: 18.256992, -66.82885

Photo #: 17	Date: 01/30/ 2023	
Photo Direction: W		
Description: Overview from center of site location – greenhouse first option.		

Photo #: 18	Date: 01/30/ 2023	
Photo Direction: NW		
Description: Existing irrigation system and electrical connections – out of service due to Hurricane Maria.		

Project #: PR-RGRW-00599	Photographer: Delise Torres-Ortiz
Location Address: Carr. 499 km 1.5, Bo. Buenos Aires Sect Palmasola, Lares, PR 00669	Coordinates: 18.256992, -66.82885

Photo #: 19	Date: 01/30/ 2023	
Photo Direction: SW		
Description: Existing irrigation system and electrical connections – out of service due to Hurricane Maria.		

Photo #: 20	Date: 01/30/ 2023	
Photo Direction: NW		
Description: Southeast corner of second site location option for the greenhouse - overview.		

Project #: PR-RGRW-00599	Photographer: Delise Torres-Ortiz
Location Address: Carr. 499 km 1.5, Bo. Buenos Aires Sect Palmasola, Lares, PR 00669	Coordinates: 18.256992, -66.82885

Photo #: 21	Date: 01/30/ 2023	
Photo Direction: SW		
Description: Northeast corner of second site location option for the greenhouse - overview.		

Photo #: 22	Date: 01/30/ 2023	
Photo Direction: NE		
Description: Southwest corner of second site location option for the greenhouse - overview.		

Project #: PR-RGRW-00599	Photographer: Delise Torres-Ortiz
Location Address: Carr. 499 km 1.5, Bo. Buenos Aires Sect Palmasola, Lares, PR 00669	Coordinates: 18.256992, -66.82885

Photo #: 23	Date: 01/30/ 2023	
Photo Direction: SE		
Description: Northwest corner of second site location option for the greenhouse – overview.		

Photo #: 24	Date: 01/30/ 2023	
Photo Direction: N		
Description: Overview from the center of the second site location option for the greenhouse showing existing greenhouse.		

Project #: PR-RGRW-00599	Photographer: Delise Torres-Ortiz
Location Address: Carr. 499 km 1.5, Bo. Buenos Aires Sect Palmasola, Lares, PR 00669	Coordinates: 18.256992, -66.82885

Photo #: 25	Date: 01/30/ 2023	
Photo Direction: E		
Description: Overview from the center of the second site location option for the greenhouse showing cultivated land and materials for the crops cover under the tarp.		

Photo #: 26	Date: 01/30/ 2023	
Photo Direction: S		
Description: Overview from the center of the second site location option for the greenhouse showing access road.		

Project #: PR-RGRW-00599	Photographer: Delise Torres-Ortiz
Location Address: Carr. 499 km 1.5, Bo. Buenos Aires Sect Palmasola, Lares, PR 00669	Coordinates: 18.256992, -66.82885

Photo #: 27	Date: 01/30/ 2023	
Photo Direction: W		
Description: Overview from the center of the second site location option for the greenhouse showing a tree of Capá Prieto from Puerto Rico, crops, and an existing greenhouse.		