

Environmental Assessment

Determinations and Compliance Findings for HUD-assisted Projects

24 CFR Part 58

Project Information

Project ID: PR-RGRW-04203

Project Name: Finca Rosalene LLC

Responsible Entity: Puerto Rico Department of Housing

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

State/Local Identifier: Puerto Rico/Humacao, PR

Preparer: Gabriela Rodríguez

Certifying Officer Name and Title: Permit and Compliance Officers: Sally Acevedo Cosme, Pedro De León Rodríguez, María T. Torres Bregón, Ángel G. López-Guzmán, Ivelisse Lorenzo Torres, Santa Damarys Ramírez Lebrón, Janette I. Cambrelén, Limary Vélez-Marrero, Juan Carlos Perez Bofill, and Mónica Machuca Ríos.

Consultant (if applicable): Tetra Tech, 251 Calle Recinto Sur, Ste. 202, San Juan, PR 00091

Direct Comments to: PRDOH (environmentcdbg@vivienda.pr.gov)

Project Location:

The property is a 7.5-acre site located at Carr 909 K.M. HM. 2.4, Bo Mariana in the Municipality of Humacao, Puerto Rico (Parcel ID# 304-054-742-54). The coordinates of the project site are 18.135553, -65.849834.

This land has been used for agricultural purposes in the past for cattle pasture and is currently segregated and used for sheep, cattle, and chicken pasture and as a diverse cropping area.

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

The proposed intent of use of grant funds includes the purchase of seeds and supplies and the purchase and installation of a new greenhouse with a solar power system. The proposed purchase of seeds and supplies includes 4 (25 pounds (lb)) packages of seeds of coriander, 4 (1 lb) of "Tropicana" and "Romaine" lettuce seeds, supplies of plant nutrients and minerals (fertilizers, calcium, magnesium), packaging materials (boxes, bags), among other needed supplies such as pet foam, neem oil, and PPM and pH meters.

The scope of work 1 (SOW-1) is the purchase and installation of a greenhouse at coordinates 18.1355539, -65.8498349. The proposed greenhouse is a 30-foot (ft) x 96 ft galvanized metal structure with plastic and Saran cover that includes the irrigation system for the hydroponic growing of the lettuce and coriander seeds to be purchased. The poles of the metal structure will be tubes 1 ½ inches (") x10 ft with welded anchors at the beginning and end of each ship and to its base with an underground depth of 2' deep.

The scope of work 2 (SOW-2) includes the purchase and installation of a solar power system to be located on top of the storage building located at coordinates 18.1355007, -65.8497743. The proposed system is a 2 kilowatt system that consists of Six (6) 360 solar panels, solar charge controller and regulator, four 6V/ 460AMP batteries, solar panels rack, 2K to 24V solar inverter, programming, cabling, and materials. The installation of the system includes an electrical transfer switch connection. PV System accessories components (batteries, transfer switch, inverter, others) will be installed inside the building. The structure is used and will be used for the storage of the purchased supplies materials.

Facilities has local water and power service utilities (PRASA and PREPA/LUMA). However, greenhouse will be powered and operated with the use of the proposed PV System. The electrical connection between the PV System and the greenhouse will be achieved via an underground, 3 ft depth, 20 linear ft electrical conduit. In addition to proposed SOWs, water service will be extended from the main property local utility water service (PRASA) connection to the greenhouse through a 1 ft depth, 80 linear feet, 3/4" diameter underground PVC piping system to provide water to the greenhouse hydroponic system. While the applicant plans to pay for this activity themselves and no HUD funds would be utilized for this portion of work, the potential impacts from this action are included in the analyses below and it is contained within the delimited Area of Potential Effect (APE). The visual APE is the viewshed of the proposed project. The proposed project APE is the parcel total area, approximately 0.13 acres.

The project site will require clearing, grubbing, grading, vegetation removal, and the removal of at least 5 palms (*Roystonea regia*) removal or transplanting activities.

Site photos are included in **Appendix A**. A site map (Figure 1) is included in **Appendix B**.

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

The Re-Grow Puerto Rico Urban-Rural Agriculture Program (RGRW) will increase agricultural capacity while promoting and increasing food security island wide. This Program will enhance and expand agricultural production related to economic revitalization and sustainable development activities. The purpose of this project is to increase the productivity of the farm. This agricultural project associated with the purchase of seeds and supplies and the purchase and installation of a new

greenhouse with a solar power system is keeping with the overall objectives of the Economic Development Program.

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

The land proposed for the purchase of seeds and supplies and the purchase and installation of a new greenhouse with a solar power system is used for agricultural purposes with sheep, cattle, and chicken pasture and as a diverse cropping area. Therefore, there is no change in land use associated with the project. Some ground disturbance will be required for the installation of the new greenhouse. Proposed area of location of the greenhouse is an empty, maintained space (no shrubs, brushes, or wild vegetation) next to an existing structure currently used as storage area. Several palm trees of the species Cuban royal palms are sown at approximately 20 ft from structure. At least 5 of the palms will require to be removed or transplanted.

Structure of this Environmental Review Report (ERR).

This ERR discusses the Funding Information immediately below. The environmental impacts of the proposed action are discussed in the Compliance with 24 CFR 58.5 and 58.6 Laws and Authorities checklist and Environmental Factors checklist. The listing of Additional Studies Performed, and Sources, Agencies and Persons Consulted follows the checklists. The discussions of Public Outreach, Cumulative Impacts, Alternatives, and Summary of Findings and Conclusions are presented at the end of the ERR, before the listing of Mitigation Measures and Determination signatures. The appendices contain detailed information.

- Appendix A – Site Inspection
- Appendix B – Maps
- Appendix C – Additional Documentation
- Appendix D – Endangered Species
- Appendix E – SHPO Consultation

Funding Information

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

Estimated Total HUD Funded Amount: \$49,115.59

Estimated Total Project Cost (HUD and non-HUD funds) [24 CFR 58.32(d)]: \$49,115.59

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 or 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"/>	The project consists of the purchase of seeds and supplies and the purchase and installation of a new greenhouse with a solar power system. The nearest civil airport, José Aponte de la Torre (NRR), is approximately 76,669 feet from the proposed site. The nearest military airport, “Aeropuerto Internacional Luis Muñoz Marín (SJU)”, is approximately 119,351 feet from the proposed site. The project site is not within 15,000 feet of a military airport or 2,500 feet of a civilian airport. The project is in compliance with Airport Hazards requirements. Refer to Figure 2 in Appendix B .
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"/>	Puerto Rico has various Coastal Barrier Resources Systems (CBRS). The project is in eastern Puerto Rico. The distance to the nearest CBRS unit is 29,127 feet. Therefore, this project has no potential to impact a CBRS Unit and is in compliance with the Coastal Barrier Resources Act. Refer to Figure 3 in Appendix B .
Flood Insurance Flood Disaster Protection Act of 1973 and National Flood Insurance Reform Act of 1994 [42 USC 4001-4128 and 42 USC 5154a]	Yes No <input type="checkbox"/> <input checked="" type="checkbox"/>	The Project site is located in Zone X, area of minimal flood hazard, as per Floodplain Insurance Map (FIRM) 72000C1265J, effective date November 18, 2009. This project is in compliance with Floodplain Insurance requirements. (See Figures 4 and 5 in Appendix B .)

STATUTES, EXECUTIVE ORDERS, AND REGULATIONS LISTED AT 24 CFR 58.5		
<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 not located in a county or air quality management district that is non-attainment status for any criteria pollutants. The identified non-attainment areas are in the municipalities of Arecibo, Bayamón, Cataño, Guaynabo, Toa Baja, Guayama-Salinas, San Juan. The project is located in the Municipio of Humacao, which is not listed in the EPA Green Book "Puerto Rico Nonattainment/Maintenance Status for Each County by Year for all Criteria Pollutants". The project consists of the purchase of seeds and supplies and the purchase and installation of a new greenhouse with a solar power system. Project would have no impact on air quality. The project is in compliance with Clean Air Act. Refer to EPA listing in Appendix C.</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 is located 17,952 feet from the nearest Coastal Zone Management area and does not affect a Coastal Zone as defined in the PR Coastal Zone Management Plan. The project is in compliance with the Coastal Zone Management Act. See Figure 7 in Appendix B.</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>A site visit conducted on December 14, 2023, no debris or rubbish or visible signs vegetative stress, contamination, or toxic substances were identified at the project site. The project consists of the purchase of seeds and supplies and the purchase and installation of a new greenhouse with a solar power system. Site contamination was evaluated through online data searches to determine if toxic sites are located within 3,000-feet of the proposed project. There are no sites of environmental concern identified within 3,000 feet of the project site.</p> <p>Regarding compliance with HUD-CPD Notice 23-103 on Radon for Puerto Rico, the existing data is scarce or insufficient. Because this greenhouse is not an enclosed area, the possibility of Radon levels above 4 pCi/L is remote.</p>
<p>Refer to Figures 8 and 9 in Appendix B and the Site inspection report and photos in Appendix A.</p>		

		The project is in compliance with Contamination and Toxic Substances.
<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>The project consists of the purchase of seeds and supplies and the purchase and installation of a new greenhouse with a solar power system. The proposed location of project is an area that has been used for agricultural purposes.</p> <p>According to EPA NEPAassist Enviromapper, the nearest critical or proposed critical habitat is 2,843 feet to the southeast of the project location. The Official Species List from the U.S. Fish and Wildlife Service (USFWS) Information for Planning and Consultation (IPaC) website lists the Puerto Rican Boa and the Guajón as being able to be found in the area, but there are no critical habitats for them at this location.</p> <p>A site-specific review of endangered species was conducted in accordance with the Fish and Wildlife Act (47 Stat. 401, as amended: 16 U.S.C. 661 et seq.) (See Appendix D).</p> <p>The project is “May affect, but not likely to adversely affect” (NLAA) the Puerto Rican Boa, and the coqui guajón, provided conservation measures are implemented as part of the project.</p> <p>If a Puerto Rican Boa is encountered, work will cease until it moves off the site or, failing that, the Puerto Rico Department of Natural and Environmental Resources (PRDNER) Rangers will be notified for safe capture and relocation of the animal, in accordance with the USFWS Puerto Rican Boa Conservation Measures guidelines.</p> <p>Confirmation on the presence/absence of the guajón at the project site must be done prior to any construction activities. All project involved personnel must be informed about the potential presence of the guajón in areas where the proposed work will be conducted. Prior to any construction activity, including removal of vegetation and earth movement, the boundaries of the project area, the buffer zones, and areas to be excluded and protected should be clearly</p>

		<p>marked in the project plan and in the field. Areas that can be impacted by construction or any other activity would potentially require the relocation of frogs and consultation with the FWS and/or the PDNER. Capture and relocation of frogs should be conducted only by qualified personnel. A before and after photographic record of the project area should be established. In addition, a record of all coquí guajón detections (if detected), including date, time, location, and approximate number of individuals should be established. If a coquí guajón is detected, the Construction Manager shall contact the Puerto Rico Department of Natural and Environmental Resources and ask for them to relocate the coquí guajón.</p> <p>Refer to Figures 10 and 11 in Appendix B and the Endangered Species Package in Appendix D. This project is in compliance with the Endangered Species Act.</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 consists of the purchase of seeds and supplies and the purchase and installation of a new greenhouse with a solar power system. The project does not include development, construction, or rehabilitation of a hazardous site or any construction that will increase residential density.</p> <p>The project is in compliance with Explosive and Flammable Hazard requirements.</p> <p>Refer to site visit report in Appendix A.</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>The project consists of the purchase of seeds and supplies and the purchase and installation of a new greenhouse with a solar power system. The project site is not designated as farmland of statewide importance or prime farmland. The project does not include any activities that could potentially convert agricultural land to nonagricultural use. 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</p>

		<p>needed for farm operations. No further review is required.</p> <p>This project is in compliance with the Farmland Protection Policy Act. Refer to Figure 12 in Appendix B.</p>
<p>Floodplain Management</p> <p>Executive Order 11988, as amended by Executive Order 13690, particularly section 2(a); 24 CFR Part 55</p>	<p>Yes No</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/></p>	<p>The proposed project is not located in a Federal Flood Risk Management Standard (FFRMS) floodplain.</p> <p>The Project site is not located in an Advisory Base Flood Elevation (ABFE) special flood hazard area as per ABFE Map 72000C1265J, effective date April 13, 2018. Since the project site does not lie within the 1 percent (100-year) floodplain on the ABFE, it is not within the FFRMS.</p> <p>PFIRMs in Puerto Rico were only developed for certain sections of the municipalities of Carolina, Canovanas, Loiza, San Juan and Trujillo Alto. The proposed project is located in the municipality of Humacao; therefore, PFIRM information was not available for the area and therefore not considered in the review. This project is in compliance with Executive Order 11988.</p> <p>See Figure 6 in Appendix B.</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 site was evaluated on January 16, 2024, by an SOI Qualified Architect/Architectural Historian. Additionally, the site was evaluated on January 22, 2024, by an SOI Qualified Archaeologist. SHPO concurred with a finding of No Historic Properties Affected within the project's Area of Potential Effects on March 25, 2024.</p> <p>Refer to Figure 13 in Appendix B and the Section 106 Consultation Package in Appendix E. This project is in compliance with Historic Preservation requirements.</p>
<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 consists of the purchase of seeds and supplies and the purchase and installation of a new greenhouse with a solar power system. HUD's noise regulations protect residential properties from excessive noise exposure. HUD noise regulations do not apply as the project does not include new construction for residential use or rehabilitation of an existing residential</p>

		property. The proposed project is in compliance with Noise Abatement and Control.
<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>There are no EPA sole source aquifers in Puerto Rico. The nearest Sole Source Aquifer is 5,561,265 feet to the northwest of the project site. The project is in compliance with Sole Source Aquifer requirements.</p> <p>Refer to Figure 17 in Appendix B.</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 consists of the purchase of seeds and supplies and the purchase and installation of a new greenhouse with a solar power system.</p> <p>The east coast is 24,500, feet east of the property. The closest fresh-water body is the Quebrada Mariana 1,320 ft east of the project area.</p> <p>The NWI maps show no wetlands on the or adjacent to the project site. This project does not impact any on or off-site wetlands and includes no activities that would require further evaluation under this section.</p> <p>The project is in compliance with Executive Order 11990. Refer to Figure 14 in Appendix B.</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>This project is not within proximity of a National Wild and Scenic River (WSR). The distance to the nearest WSR is approximately 50,735 feet. The project is in compliance with the Wild and Scenic Rivers Act. Refer to Figure 15 in Appendix B.</p>

ENVIRONMENTAL JUSTICE		
<p>Environmental Justice</p> <p>Executive Order 12898</p>	<p>Yes No</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/></p>	<p>No adverse environmental impacts were identified in any other compliance review portion of this project that may disproportionately be high for low-income and/or minority communities. Therefore, this topic complies with Executive Order 12898.</p> <p>Refer to Appendix C.</p>

Environmental Assessment Factors [24 CFR 58.40; Ref. 40 CFR 1508.8 & 1508.27] Recorded below is the qualitative and quantitative significance of the effects of the proposal on the character, features, and resources of the project area. Each factor has been

evaluated and documented, as appropriate and in proportion to its relevance to the proposed action. Verifiable source documentation has been provided and described in support of each determination, as appropriate. Credible, traceable, and supportive source documentation for each authority has been provided. Where applicable, the necessary reviews or consultations have been completed and applicable permits of approvals have been obtained or noted. Citations, dates/names/titles of contacts, and page references are clear. Additional documentation is attached, as appropriate. **All conditions, attenuation or mitigation measures have been clearly identified.**

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

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

Environmental Assessment Factor	Impact Code	Impact Evaluation
LAND DEVELOPMENT		
Conformance with Plans / Compatible Land Use and Zoning / Scale and Urban Design	2	The project consists of the purchase of seeds and supplies and the purchase and installation of a new greenhouse with a solar power system. The proposed project is located on a private farm. The project site is zoned as "Rural General (A-4)". The proposed action is compliant with the current agricultural land use of the Project area and will not contribute to urban sprawl.
Soil Suitability/ Slope/ Erosion/ Drainage/ Storm Water Runoff	2	<p>The project consists of the purchase of seeds and supplies and the purchase and installation of a new greenhouse with a solar power system. The proposed project is located in flat terrain, previously used for agricultural purposes, and now used for sheep, cattle, and chicken pasture and as a diverse cropping area.</p> <p>Soils in the proposed project area are classified as Pandura loam (PaE2), 12 to 40 percent slopes, surrounded by secondary young forest vegetation, 110 meters above mean sea level.</p> <p>Projects larger than 1 acre must comply with the CWA and develop a SWPPP with the NPDES. The proposed project area is approximately 0.13 acres.</p>

		<p>The project site will require clearing, grubbing, grading, vegetation removal, and some palm trees removal or transplanting.</p> <p>The project site area is rated “low to moderate” for landslide susceptibility (see Figure 16 in Appendix B).</p> <p>There will be little to no additional runoff associated with the project.</p>
Hazards and Nuisances including Site Safety and Noise	2	The project consists of the purchase of seeds and supplies and the purchase and installation of a new greenhouse with a solar power system. During implementation of the project, construction activities may result in temporary elevation of ambient noise levels in immediate areas around active construction areas. The only nearby receptors are the residents of the farm. There is no access to the project area by the public.
Environmental Assessment Factor	Impact Code	Impact Evaluation
SOCIOECONOMIC		
Employment and Income Patterns	2	<p>The project consists of the purchase of seeds and supplies and the purchase and installation of a new greenhouse with a solar power system. Temporary employment of workers related to construction activities would result, but no new permanent jobs would be created as a result of this project. These workers are expected to come from the local region. However, since the project will include an economic component, it may aid in restoring some employment opportunities and increase income.</p> <p>The proposed project would not negatively impact employment or income patterns.</p>
Demographic Character Changes, Displacement	2	The project consists of the purchase of seeds and supplies and the purchase and installation of a new greenhouse with a solar power system. The proposed project would not result in demographic character changes or displacement. Given the nature of the project area, no relocations or demolition of residential structures or businesses would occur as part of this project.
Environmental Justice	1	<p>In the area (one mile radius) in which project will occur.</p> <p>100% are people of color compared to PR average of 96%</p> <p>75% are low income compared to PR average of 70%</p>

		<p>11% are unemployed compared to PR average of 15%</p> <p>The project consists of the purchase of seeds and supplies and the purchase and installation of a new greenhouse with a solar power system. This project will result in restoration and increase in income and potential employment opportunities in the local area. The impacts would be beneficial.</p> <p>See EJScreen Report in Appendix C</p>
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Environmental Assessment Factor	Impact Code	Impact Evaluation
COMMUNITY FACILITIES AND SERVICES		
Educational and Cultural Facilities	2	The project consists of the purchase of seeds and supplies and the purchase and installation of a new greenhouse with a solar power system. The project would not result in any change to regional or local area educational and cultural facilities or increase demand for them.
Commercial Facilities	2	The project consists of the purchase of seeds and supplies and the purchase and installation of a new greenhouse with a solar power system. The agricultural activity of the project property will improve. Other commercial facilities would not be impacted by the proposed project.
Health Care and Social Services	2	The project consists of the purchase of seeds and supplies and the purchase and installation of a new greenhouse with a solar power system. Health care and social services facilities would not be impacted by the proposed project. The project would not increase demand for health care and social services facilities.
Solid Waste Disposal / Recycling	2	<p>The project consists of the purchase of seeds and supplies and the purchase and installation of a new greenhouse with a solar power system.</p> <p>Waste vegetation from clearing activities will either be composted on site or at regional composting centers. Soil from grading would be recycled on the farm as fill. Left over construction materials that could be reused on the farm (e.g., piping, structural materials, greenhouse covering fabrics) would be stored for later use. The remaining construction solid waste materials would be collected for transport to the local landfill. The amount of impact of solid waste resulting from the construction of the proposed project would be minor. During operations, the products and by-products</p>

		would be agricultural, which waste would be biodegradable. Other waste components related to the operation of the proposed project includes recyclable materials such as plastics and cardboard. Recyclables will be set aside and dispose according to the local recycling management plan. The remaining municipal solid waste would be collected for the transport to the local landfill.
Wastewater / Sanitary Sewers	2	The project consists of the purchase of seeds and supplies and the purchase and installation of a new greenhouse with a solar power system. The proposed project would not include any bathrooms, wastewater, or sewage facilities. Current farm conditions would remain unchanged.
Water Supply	2	The project consists of the purchase of seeds and supplies and the purchase and installation of a new greenhouse with a solar power system. Water service will be extended from the main property local utility water service (PRASA) connection to the greenhouse through a 1 ft depth, 80 linear feet, 3/4" diameter underground PVC piping system to provide water to the greenhouse hydroponic system. The applicant is responsible for any permits or actions to ensure legalization of utility connections (if needed) prior to construction activities. The proposed project will have minor impact on water usage.
Public Safety – Police, Fire and Emergency Medical	2	The project consists of the purchase of seeds and supplies and the purchase and installation of a new greenhouse with a solar power system. The proposed project would not create any new demand for emergency or health services.
Parks, Open Space and Recreation	2	The project consists of the purchase of seeds and supplies and the purchase and installation of a new greenhouse with a solar power system. The proposed project would not create or destroy any new parks, open space, or recreational activities. It also would not increase use of those facilities.
Transportation and Accessibility	2	The project consists of the purchase of seeds and supplies and the purchase and installation of a new greenhouse with a solar power system. The proposed project would not involve the creation of new roads nor any increase in long-term traffic on existing roads. There would be some minor use of the existing road during construction. All residents and businesses would retain access to their properties during and after the project.

Environmental Assessment Factor	Impact Code	Impact Evaluation
NATURAL FEATURES		
Unique Natural Features, Water Resources	2	<p>The project consists of the purchase of seeds and supplies and the purchase and installation of a new greenhouse with a solar power system. The proposed project will be situated on land previously used for agricultural purposes. The proposed project will have no impact to unique natural features or water resources.</p>
Vegetation, Wildlife	2	<p>The project consists of the purchase of seeds and supplies and the purchase and installation of a new greenhouse with a solar power system.</p> <p>The proposed project will occur on land previously used for agricultural purposes and will continue in that capacity.</p> <p>Waste vegetation from clearing activities will either be composted on site or at regional composting centers. Soil from grading would be recycled on the farm as fill. Proposal contemplate cutting or transplanting of palm trees. These are ornamental palms that can be transplanted to a different location in the parcel. Palm tree root system is composed of adventitious roots that are adapted to develop near the soil surface and do not reach great depth in the soil. The root system allows for many palm species to be successfully transplanted. However, the cutting or transplanting of trees with a trunk diameter greater than or equal to 4 inches (DAP, by its acronym in spanish) requires the submittal of a "Permiso Único Incidental", including an "Autorización de Corte, Poda, Trasplante y Siembra de Arboles (ACP)". The ACP contains the plan of transplanting, cutting and the proposed mitigation measures. Mitigation measures varies depending on the activity and the DAP of trees. Mitigation can be achieved by on-site, off-site, a combination of on-site/off-site planting and/or monetary compensation. Plan must be developed by an Arborist certified by the PRDNER and be submitted via the Single Business Portal to the OGPe to be evaluated, approved and physicalized by PRDNER.</p> <p>The proposed project will have minimal impact on vegetation and no impact on wildlife.</p>

Environmental Assessment Factor	Impact Code	Impact Evaluation
CLIMATE AND ENERGY		

Climate Change Impacts	2	The project consists of the purchase of seeds and supplies and the purchase and installation of a new greenhouse with a solar power system. There would be no changes to the site configuration or structure that would specifically address the possibility and uncertainty of rising sea levels or the possibility of increases in rainfall intensity. This is a small agricultural project with no measurable impact on climate change factors.
Energy Efficiency/Energy Consumption	1	The project consists of the purchase of seeds and supplies and the purchase and installation of a new greenhouse with a solar power system. Facilities currently have local utility service provided by PREPA/LUMA. Project involves the addition of solar equipment to supply/reduce energy requirements of greenhouse operations. However, the applicant is responsible for any permits or actions to ensure legalization of utility connections (if needed) prior to construction activities.

Additional Studies Performed: None required.

Field Inspection (Date and completed by):

Site inspection was conducted on December 14, 2024 by Antonio A. Martínez.

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

Puerto Rico State Historic Preservation Office

FAA, National Plan for Integrated Airport Systems:

www.faa.gov/airports/planning_capacity/npias/reports/NPIAS-Report-2017-2021-Appendix-B-Part6.pdf

John H. Chafee Coastal Barrier Resources System, Puerto Rico [map](#).

www.fws.gov/CBRA/Maps/Locator/PR.pdf

National Wild and Scenic Rivers System: www.rivers.gov/puerto-rico.php

Puerto Rico Community Development Block Grant Disaster Recovery Action Plan, July 2018. www.cdbg-dr.pr.gov/en/action-plan/

Programmatic Agreement among the Federal Emergency Management Agency, the Puerto Rico State Historic Preservation Office and the Central Office for Recovery, Reconstruction and Resilience – amended to include the Puerto Rico Department of Housing.

US Environmental Protection Agency, National Ambient Air Quality Standards, Nonattainment Areas for Criteria Pollutants (Green Book):
www3.epa.gov/airquality/greenbook/anayo_pr.html

US EPA, Environmental Topics, Air Topics: www.epa.gov/environmental-topics/air-topics

US Fish and Wildlife Service, Environmental Conservation Online System:
<https://ecos.fws.gov/ecp/report/species-listings-by-state?stateAbbrev=PR&stateName=Puerto%20Rico&statusCategory=Listed>

Federal Emergency Management Agency, Flood Mapping Service:
<https://msc.fema.gov/portal/home> (compilation of numerous maps)

US Fish and Wildlife Service, National Wetlands Inventory:
www.fws.gov/wetlands/data/mapper.html (compilation of numerous maps)

Puerto Rico Coastal Zone Management Program Plan, September 2009.

US EPA, Sole Source Aquifers. Esri HERE, Garmin, NOAA, USGS, EPA.

US Geological Survey, Data Release of May Showing Concentration of Landslides Caused by Hurricane Maria,
www.sciencebase.gov/catalog/item/59de6459e4b05fe04ccd39d8

List of Permits Obtained:

None

Public Outreach [24 CFR 58.43]:

The local community has been very proactive in the recovery process. Puerto Rico Department of Agriculture has worked closely with the agricultural community. The project will include a FONSI / NOI-RROF in compliance with NEPA regulations for HUD.

Cumulative Impact Analysis [24 CFR 58.32]:

In accordance with 24 CFR 58.32 (Aggregation), there are no cumulative impacts associated with the proposed project. The project consists of the purchase of seeds and supplies and the purchase and installation of a new greenhouse with a solar power system.

The project would allow more space for the production of agricultural products and a more efficient processing and growing of the agricultural products. Greenhouse will be powered with the use of the proposed PV system. In addition to proposed SOWs, water service will be extended from the main property local utility water service (PRASA) connection to the greenhouse through a 1 ft depth, 80 linear feet, 3/4" diameter underground PVC piping system to provide water to the greenhouse hydroponic system. Water use will increase to a minor degree in the new greenhouse.

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

The RGRW Program's goal is to increase agricultural capacity while promoting and increasing food security island-wide. This Program seeks to enhance and expand agricultural production related to economic revitalization and sustainable development activities. Alternative locations off and on property may represent an impact to undisturbed and/or uneven ground, sloped terrain or within forested areas, which could require heavier clearing and grading activities. Any alternative that would involve an off-property location might require the purchase of land, the need for storage area, the movement of products, equipment, infrastructure, water and power utility connections, among others, representing an additional cost. An off-property alternative will not enhance and expand agricultural production or allow for the economic development for this applicant. Given the above-mentioned possible impacts of an alternative location, an off-property alternative was not selected.

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

The project consists of the purchase of seeds and supplies and the purchase and installation of a new greenhouse with a solar power system. Under the No Action Alternative, the applicant would not receive federal funding for the proposed action, which would inhibit the economic growth opportunity that the applicant would not otherwise have under the PRDOH Re-Grow Puerto Rico program. As a result, these owners may not be able to experience the growth needed to recover and expand their agriculture activities. A provision of the grant allows for economic development for businesses. The No-Action alternative would not allow for the economic development for this applicant.

Summary of Findings and Conclusions:

The proposed activity has been found to not have any adverse effects on the environment nor is there the requirement for further consultation with federal agencies associated with the topics evaluated above. There are no environmental review topics addressed above that result in the need for additional formal compliance steps with federal agencies or the requirement for mitigations other than those listed below. There may be additional approvals or permits from local agencies. For example, permits may be required from PRDNER for any water or other utility connections and the Office of Permit Management (OGPe) is responsible for granting permits, licenses, certifications, consultations, construction, and any other procedure necessary for business development and land use in Puerto Rico. The appropriate and necessary permits should be obtained by the applicant and/or contractor, from the appropriate Department or concerned agency, prior to construction activities.

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.

The environmental review topics addressed in this environmental review include all formal compliance steps with federal agencies and mitigations (listed in table below) needed for compliance with 24 CFR 58.

Any permits or approvals that have been issued during the preparation of this environmental review have been included in the evaluation of impacts and mitigations. Any special permit conditions or requirements associated with these permits are listed in the Mitigation Measures and Conditions table below.

Law, Authority, or Factor	Mitigation Measure
Endangered Species	<p>Implement Puerto Rican Boa conservation measures prior to and during construction to avoid or minimize impacts to this species. If a Puerto Rican Boa is found in the project activity site, work shall cease until the Boa moves off on its own. If the Boa does not move off, the Construction Manager shall contact the Puerto Rico Department of Natural and Environmental Resources and ask for them to relocate the Boa. PRDNER phone #: ((787) 724-5700, (787) 230-5550, (787) 771-1124.</p> <p>Confirmation on the presence/absence of the guajón at the project site must be done prior to any construction activities. All project involved personnel must be informed about the potential presence of the guajón in areas where the proposed work will be conducted. Prior to any construction activity, including removal of vegetation and earth movement, the boundaries of the project area, the buffer zones, and areas to be excluded and protected should be clearly marked in the project plan and in the field. Areas that can be impacted by construction or any other activity would potentially require the relocation of frogs and consultation with the FWS and/or the PDNER. Capture and relocation of frogs should be conducted only by qualified personnel. A before and after photographic record of the project area should be established. In addition, a record of all coquí guajón detections (if detected), including date, time, location, and approximate number of individuals should be established. If a coquí Guajón is detected, the Construction Manager shall contact the Puerto Rico Department of Natural and Environmental Resources and ask for them to relocate the coquí Guajón. PRDNER phone #: ((787) 724-5700, (787) 230-5550, (787) 771-1124.</p>

	See conservation measures in the Endangered Species Package included in Appendix D .
Permits or Agency Approvals Required	
Permit or Approval	Permit Conditions
Ground disturbance	Projects whose earthworks are more than 40 m ³ must submit an Incidental Permit. The permit must be submitted via the Single Business Portal to the OGPe to be evaluated and physicalized by the Water Quality Division of the PRDNER. Any necessary permits should be obtained by the applicant and/or contractor prior to construction activities.
Clearing activities	Activities involving the excavation or movement of any component of the terrestrial cortex material that exceeds five hundred (500) cubic meters and up to a maximum of five thousand (5,000) cubic meters require the submittal and approval of a Simple Terrestrial Cortex Removal Permit. Applications are submitted via the Single Business Portal of the OGPe to be evaluated and physicalized by terrestrial Cortex Extraction Permit Division of the PRDNER.
Utility Connections- Water Supply- PRASA	The project does not involve new connections to the local utility services provided by PRASA. Facilities have local water utility services connections. However, the applicant is responsible for any permits or actions to ensure legalization of utility connections (if needed) prior to construction activities.
Utility Connections- PREPA/LUMA	The project does not involve new utility connections provided by PREPA/LUMA. Facilities have local utility services connections. However, the applicant is responsible for any permits or actions to ensure legalization of utility connections (if needed) prior to construction activities.
Cutting, Pruning, Transplanting and Planting of Trees	The cutting or transplanting of trees with a trunk diameter greater than or equal to 4 inches (DAP, by its acronym in Spanish) requires the submittal of a "Permiso Único Incidental", including an "Autorización de Corte, Poda, Trasplante y Siembra de Arboles (ACP)". The ACP contains the plan of transplanting, cutting and the proposed mitigation measures. Mitigation measures varies depending on the activity and the DAP of trees. Mitigation can be achieved by on-site, off-site, a combination of on-site/off-site planting and/or monetary compensation. Plan must be developed by an Arborist certified by the PRDNER and be submitted via the Single Business Portal to the OGPe to be evaluated, approved and physicalized by PRDNER.
Soil Suitability/ Slope/ Erosion/ Drainage/ Storm Water Runoff	All construction or demolition of structures, which do not contain asbestos or lead-containing paint, in surface areas of project of nine hundred (900) square meters or more, in which the total volume of the components of the earth's that

	are to be used as filler or extracted, stored, disposed, disassembled, piled up or removed exceed forty (40) cubic meters, requires the submittal of a "Permiso Único Incidental (PUI)", including an Erosion and Sedimentation Control Plan (Plan CES, by its acronym in Spanish). A Plan CES must be developed by a Professional Engineer and be submitted via the Single Business Portal to the OGPe to be evaluated, approved and physicalized by PRDNER.
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Determination:

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

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

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

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

Preparer Signature: 

Date: 9/13/2024

Name/Title/Organization: Gabriela Rodríguez, Senior Environmental Scientist, Tetra Tech Inc.

Certifying Officer Signature:  Date: Sept. 20, 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

Site Inspection and Photos

Environmental Field Observation - Puerto Rico Department of Housing

APPLICANT INFORMATION			
Application ID	PR-RGRW-04203		
Applicant Name	Finca Rosalene LLC		
Property Address	Bo Mariana Carr 909 K.M. HM. 2.4		
Parcel ID	304-054-742-54		
Coordinates	18.135553, -65.849834		
Inspector Name	Antonio A. Martinez		
Inspection Date	12/14/2023		
Building Type	vacant		
Number of Units	0		
Number of Stories	0		
Year Built; Data Source	----; Historian		
ENVIRONMENTAL OBSERVATIONS (attach photos and notes, as necessary, for any YES answers)			
OBSERVATION ITEMS	YES	NO	COMMENTS
A. Is the structure in use ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
B. Is structure a greenhouse ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C. Is Electricity connected ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
D. Is water connected ? (Utilities or Well)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
1. Are there signs of poor housekeeping on site? (mounds of rubble, garbage, storm debris, solid waste, petroleum products, paint, pesticides, cleaning fluids, vehicle batteries, abandoned vehicles, pits, pools, ponds of hazardous substances, etc.)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2. Are there any 55-gallon drums visible on site? If yes, are they leaking?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3. Are there any (or signs of any) underground storage tanks on the property?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4. Are there signs of ASTs on the parcel or adjacent parcel? If yes, list approximate size and contents, if known.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
5. Is there any stained soil or pavement on the parcel?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6. Is a water drainage system in use?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
7. Is a warehouse in use for storage of Fertilizer or Pesticides ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
8. Are there any groundwater monitoring wells on the site or adjacent parcel?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
9. Is there evidence of a faulty septic system ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
10. Is there distressed vegetation on the parcel?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
11. Is there any visible indication of MOLD ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

12. Is there any visible evidence of asbestos, chipping, flaking or peeling paint, or hazardous materials present in or on the structure?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
13. Are any additional site hazards observed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
14. Is there any permanent standing water , such as a pond or stream, located on the site (do not include ponding from recent rain / weather events)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
15. Does the subject property have water frontage ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
16. Is there any indication of the presence of Wetlands ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
17. Are there any obvious signs of animals or birds nesting on or near the site?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
18. Is the applicant aware of any significant historical event or persons associated with the structure, or of it being located in a historic district/area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
19. Is a historic marker present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Additional Notes:

Case: PR-RGRW-04203
Project Name: Finca Rosalene LLC
Coordinates: 18.135553, -65.849834

Is the field graded? For what purpose the field was graded? Month, Year: None

Scope of Work: The proposed project includes the purchase of seeds and supplies and the purchase and installation of solar panels and a new greenhouse.

Land current in use for: Segregated land: Sheep, cattle and chickens in one side and diverse cropping at the other side.

Past Land use was: Cattle from 1940 to 1990.

Where the applicant plans to do the ground disturbances for the scopes of work, add the coordinates, descriptions and approximately the measurements:

Scope of work 1: Installation of a Greenhouse
Coordinates: 18.1355539, -65.8498349

Purchase and installation of a greenhouse with galvanized metal posts and Saran tarp cover with approximate dimensions of 96' x 30' for vegetable farming such as lettuce and coriander (cilantrillo). The seeds to be purchase will be used in this greenhouse.

Scope of work 2: Purchase and installation of Solar Panels System
Coordinates: 18.1355007, -65.8497743

Purchase and installation of a solar panels system (2 kilos) which includes the following specifications: Six 360 solar panels, solar charge controller and regulator, four 6V/ 460AMP batteries, solar panels rack, 2K to 24V solar inverter, programming, cabling and materials. This system is going to be installed in storage building roof and transfer switch is going to be installed in one of the walls inside the building.

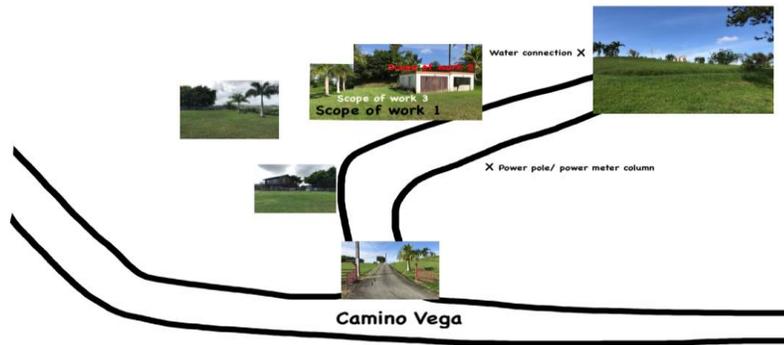
Any new water connection or power connection?

Power will be generated by solar panels system in the roof of the existing structure. Water service will be extended from main property PRASA connection to storage building through an underground 3/4" diameter pvc piping approximately 60' to 80' long from main source, east to west. This water connection will provide water to the greenhouse.

If the scope of work included tools, machinery or farms products, Where the applicant will be storing them?

Existing Storage concrete building to storage the seeds and supplies to be purchased:
Coordinates: 18.1355007, -65.8497743

Site Sketch



Front of Structure

Photo Direction: Northeast



Facing Away From Front

Photo Direction: Southwest



Side #1 of Structure

Photo Direction: East



Facing Away From Side #1

Photo Direction: West



Back of Structure

Photo Direction: South



Facing Away From Back

Photo Direction: North



Side #2 of Structure

Photo Direction: North



Facing Away From Side #2

Photo Direction: South



Streetscape #1

Photo Direction: South



Streetscape #2

Photo Direction: Northeast



Address

Photo Direction: North



Outbuildings

Photo Description: Storage building

Photo Direction: East



Structural Details

Photo Description: Architectural details

Photo Direction: Southeast



Structural Details

Photo Description: Architectural details

Photo Direction: North



Structural Details

Photo Description: Architectural details

Photo Direction: Northwest



Structural Details

Photo Description: Architectural details

Photo Direction: West



Structural Details

Photo Description: Architectural details

Photo Direction: West



Structural Details

Photo Description: Architectural details

Photo Direction: Northeast



Structural Details

Photo Description: Architectural details

Photo Direction: North



Structural Details

Photo Description: Architectural details

Photo Direction: West



Structural Details

Photo Description: Architectural details

Photo Direction: Southwest



Structural Details

Photo Description: Architectural details

Photo Direction: Northwest



Structural Details

Photo Description: Architectural details

Photo Direction: Northwest



Structural Details

Photo Description: Architectural details

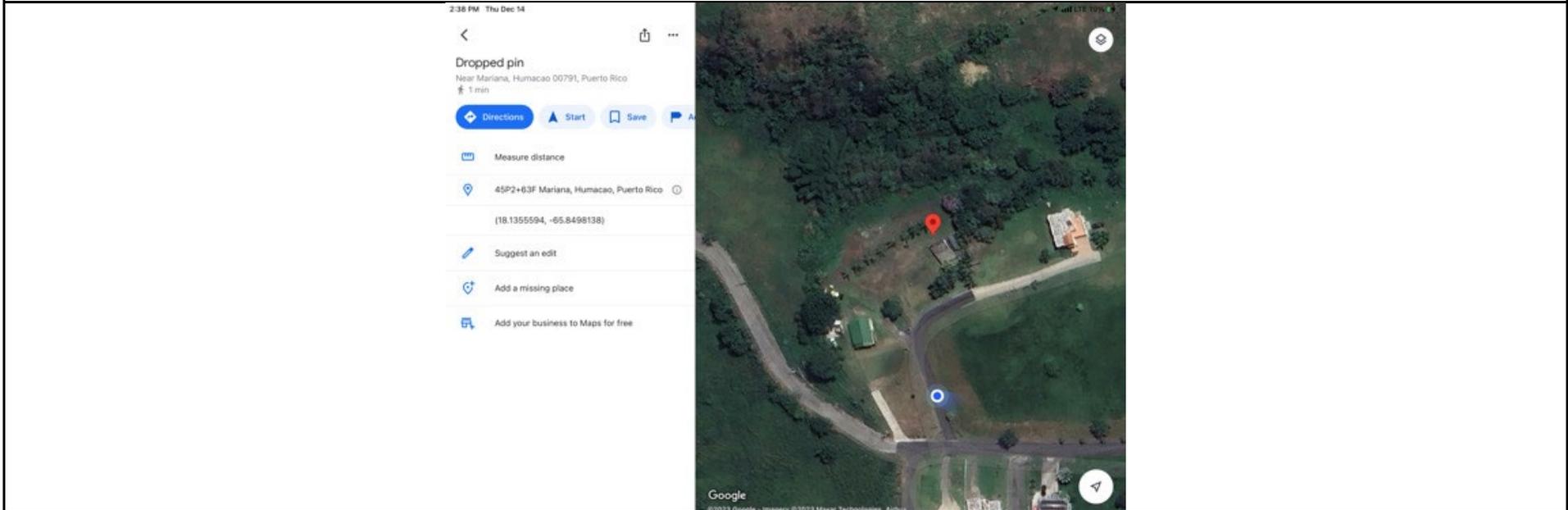
Photo Direction: North



Structural Details

Photo Description: Architectural details

Photo Direction: North



Scope Of Work

Photo Description: Scope of work 1 Installation of a Greenhouse

Photo Direction: Northeast



Scope Of Work

Photo Description: Scope of work 1 Installation of a Greenhouse

Photo Direction: East



Scope Of Work

Photo Description: Scope of work 1 Installation of a Greenhouse

Photo Direction: Southwest



Scope Of Work

Photo Description: Scope of work 1 Installation of a Greenhouse

Photo Direction: West



Scope Of Work

Photo Description: Scope of work 2 Purchase and installation of Solar Panels System

Photo Direction: Northeast



Scope Of Work

Photo Description: Scope of work 2 Purchase and installation of Solar Panels System

Photo Direction: East



Scope Of Work

Photo Description: Scope of work 2 Purchase and installation of Solar Panels System

Photo Direction: South



Scope Of Work

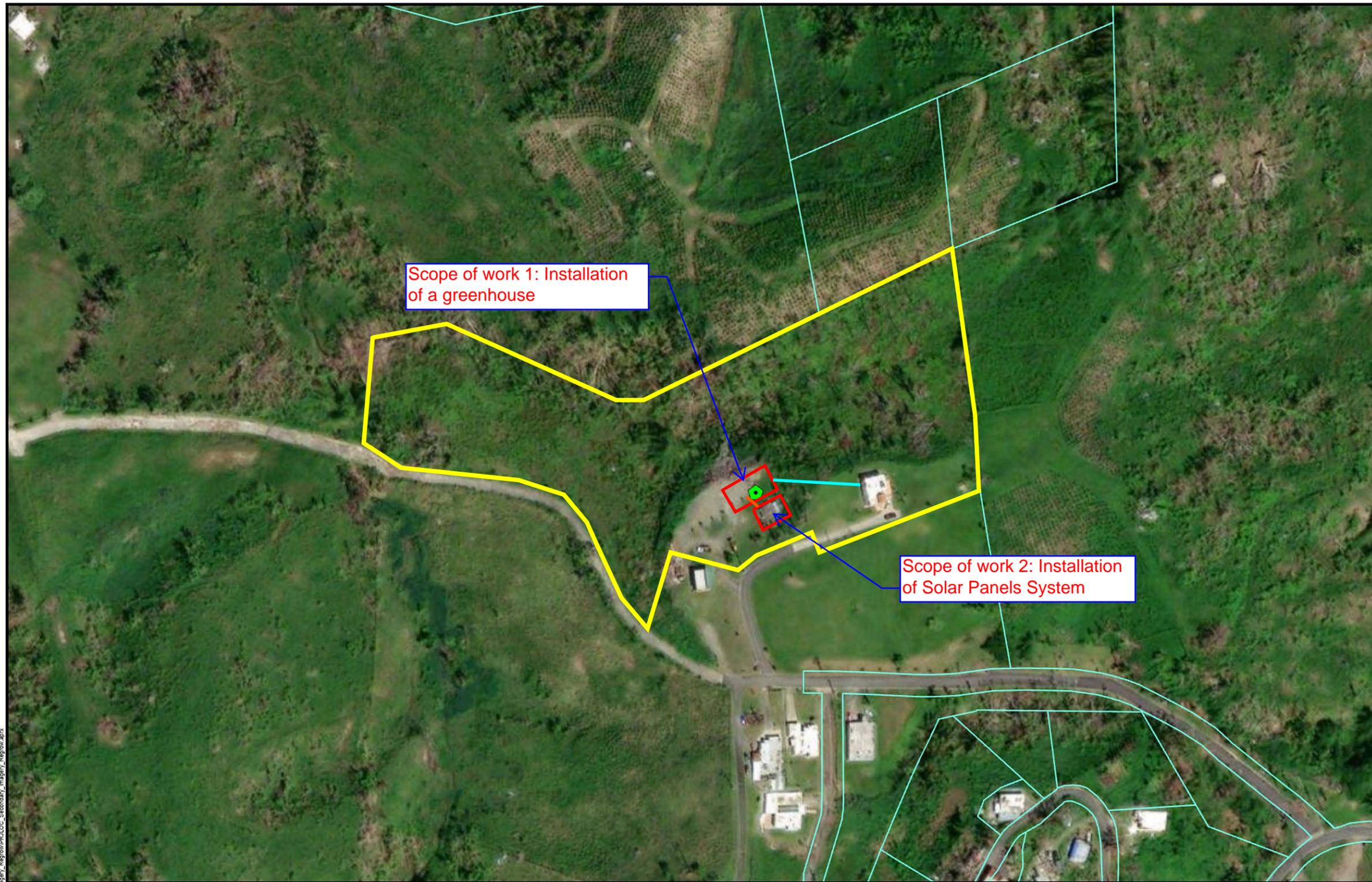
Photo Description: Scope of work 2 Purchase and installation of Solar Panels System

Photo Direction: North



APPENDIX B

Maps



- Legend**
- Project Parcel
 - Parcels
 - Area of Potential Effect
 - Project Parcel Boundaries
 - Power connection
 - Water connection

PUERTO RICO

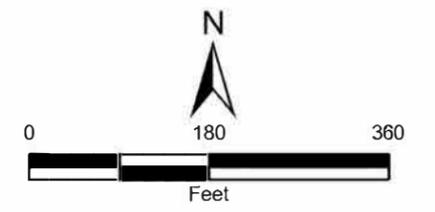


Figure 1: Project Location
APPLICANT ID: PR-RGRW-04203

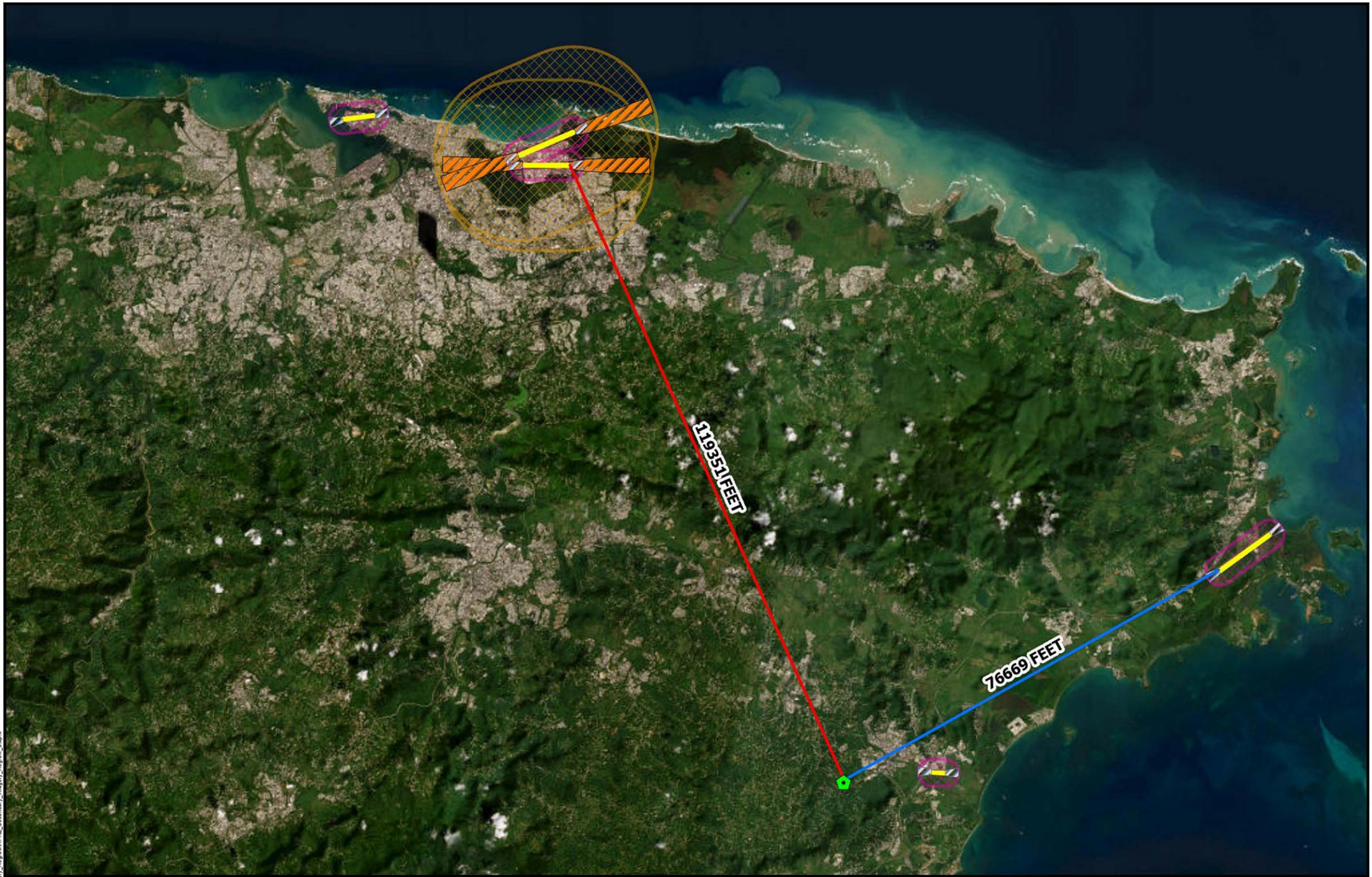
ADDRESS: Bo Mariana Carr 909 K.M. HM. 2.4, Humacao, PR 00792
Name of Development: Finca Rosalene LLC
Parcel Coordinates: 18.135553, -65.849834



Source: CRIM
<https://catastro.crimpr.net/cdprpc/>
 Author: TG Date: 2/13/2024



File Path: Z:\data\US\PR\Regrow\PRLOC_Secondary_Imagery_Regrow\PRLOC_Secondary_Imagery_Regrow.aprx



Legend

-  Project Parcel
-  Civilian Runway Protection Zones
-  Military Accident Potential Zones
-  Airport Runways
-  Civilian Airport 2,500 Feet Buffer
-  Military Airport 15,000 Feet Buffer

Distance to Nearest Airport in Feet: 15,781

Distance to Nearest Civilian Airport in Feet: 76,669

Distance to Nearest Military Airport in Feet: 119,351

PUERTO RICO



Figure 2: AIRPORT ZONES
APPLICANT ID: PR-RGRW-04203

ADDRESS: Bo Mariana Carr 909 K.M. HM. 2.4, Humacao, PR 00792

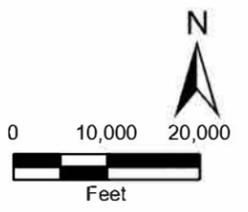
Name of Development: Finca Rosalene LLC

Parcel Coordinates: 18.135553, -65.849834

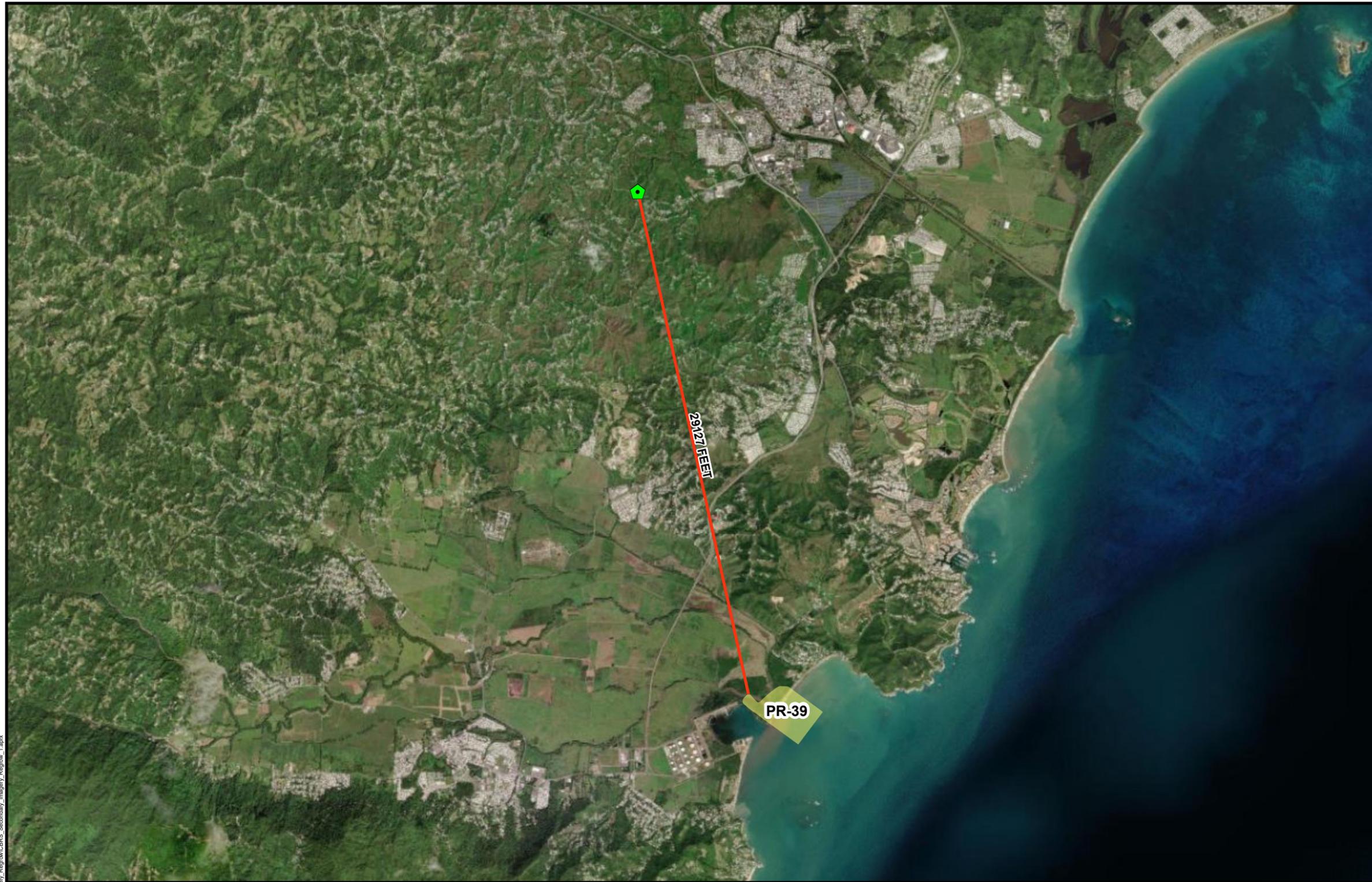


Source: USDOT
<https://www.faa.gov>

Author: TG Date: 5/3/2024



File Path: Z:\data\USPRT\PR\Region\APRZ_Secondary_Imagery_Region\Region_5.aprx



Legend

Project Parcel

Coastal Barrier Resources System Boundary

Unit

PR-39

Distance to Nearest Coastal Barrier Resources System:
29127 Feet

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File Path: Z:\data\USFWS\Tier2\Regrow\pr\CBRS_Secondary_Imagery_Regrow_L1.aprx



Source: U. S. Fish & Wildlife Service
<https://www.fws.gov>

Author: TG

Date: 10/17/2023

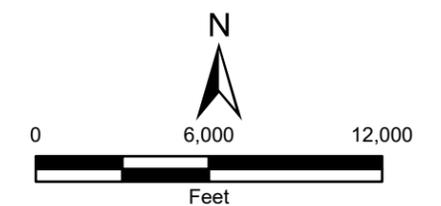
Figure 3: COASTAL BARRIERS IMPROVEMENT ACT

APPLICANT ID: PR-RGRW-04203

ADDRESS: Bo Mariana Carr 909 K.M. HM. 2.4, Humacao, PR 00792

Name of Development: Finca Rosalene LLC

Parcel Coordinates: 18.135553, -65.849834





- Legend**
- Project Parcel
 - Parcels
 - FIRM Panels
 - Floodway
 - 100 Yr Floodzone
 - 500 Yr Floodzone
 - Area Of Minimal Flood Hazard
 - Unmapped for Floodplain
 - Area of Potential Effect

PUERTO RICO



Figure 4: FLOOD INSURANCE RATE MAP (FIRM)

APPLICANT ID: PR-RGRW-04203

ADDRESS: Bo Mariana Carr 909 K.M. HM. 2.4, Humacao, PR 00792

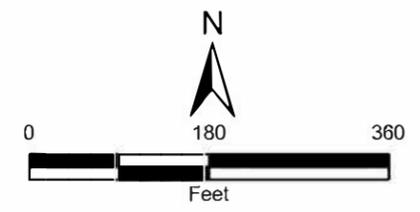
Name of Development: Finca Rosalene LLC

Parcel Coordinates: 18.135553, -65.849834

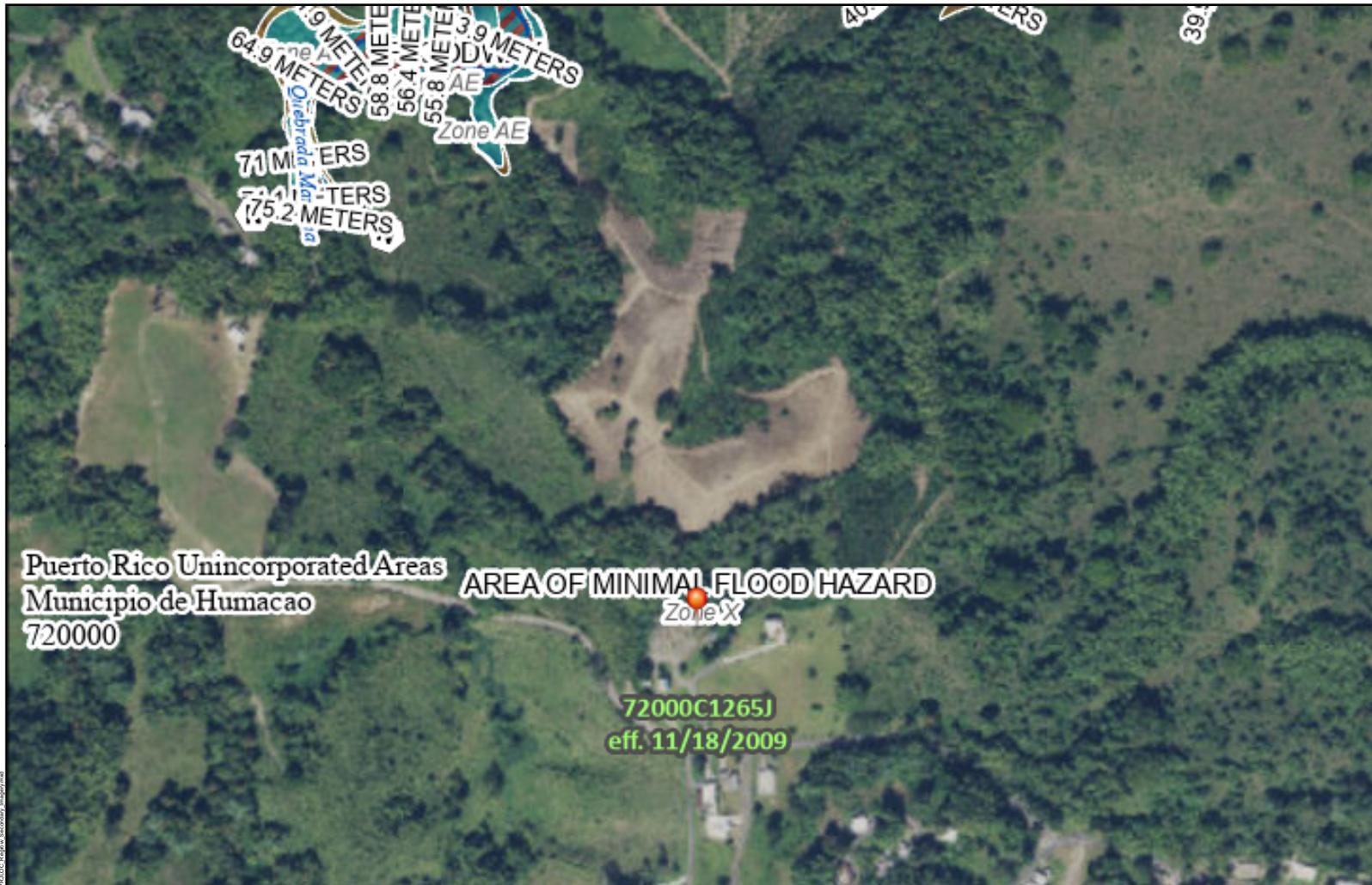


Source: FEMA
<https://msc.fema.gov>

Author: TG Date: 1/4/2024



File Path: Z:\data\US\PR\Region\04203\F02_Sec02\F02_Sec02\F02_Sec02_Imagery_Region\F02_Sec02_Imagery_Region.aprx



Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

- SPECIAL FLOOD HAZARD AREAS**
 - Without Base Flood Elevation (BFE) Zone A, V, AE, AH, VE, AR
 - With BFE or Depth Zone AE, AD, AH, VE, AR
 - Regulatory Floodway

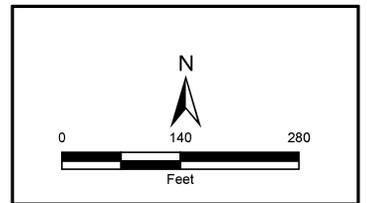
- OTHER AREAS OF FLOOD HAZARD**
 - 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
 - Future Conditions 1% Annual Chance Flood Hazard Zone X
 - Area with Reduced Flood Risk due to Levee. See Notes. Zone X
 - Area with Flood Risk due to Levee Zone D

- OTHER AREAS**
 - NO SCREEN Area of Minimal Flood Hazard Zone X
 - Effective LOMRs
 - Area of Undetermined Flood Hazard Zone D

- GENERAL STRUCTURES**
 - Channel, Culvert, or Storm Sewer
 - Levee, Dike, or Floodwall

- OTHER FEATURES**
 - 20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
 - 17.6 Coastal Transect
 - Base Flood Elevation Line (BFE)
 - Limit of Study
 - Jurisdiction Boundary
 - Coastal Transect Baseline
 - Profile Baseline
 - Hydrographic Feature

- MAP PANELS**
 - Digital Data Available
 - No Digital Data Available
 - Unmapped



Puerto Rico Unincorporated Areas
Municipio de Humacao
720000

AREA OF MINIMAL FLOOD HAZARD
Zone X

72000C126J
eff. 11/18/2009

FIGURE 5: NATIONAL FLOOD HAZARD LAYER FIRMETTE

APPLICANT ID: PR-RGRW-04203

ADDRESS: Bo Mariana Carr 909 K.M. HM. 2.4, Humacao, PR 00792

Name of Development: Finca Rosalene LLC

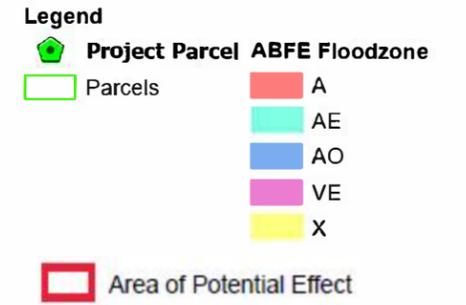
Parcel Coordinates: 18.135553, -65.849834



Source: FEMA
<https://www.msc.fema.gov>

Author: TG Date: 5/31/2023

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 Project Date: 5/31/2023
 Project Author: TG



PUERTO RICO



**Figure 6: ADVISORY BASE FLOOD ELEVATION (ABFE) MAP
 APPLICANT ID: PR-RGRW-04203**

ADDRESS: Bo Mariana Carr 909 K.M. HM. 2.4, Humacao, PR 00792

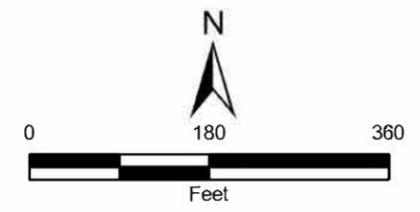
Name of Development: Finca Rosalene LLC

Parcel Coordinates: 18.135553, -65.849834



Source: FEMA
<https://gis.fema.gov>

Author: TG Date: 2/13/2024



File Path: Z:\data\USP\TR\Region\ABFE_Secondary_Images\Region\ABFE_Secondary_Images_RGRW.aprx



Legend

-  Project Parcel
-  Coastal Zone Management Boundary

Distance to Nearest Coastal Zone:
17952 Feet

PUERTO RICO



Figure 7: COASTAL ZONE MANAGEMENT

APPLICANT ID: PR-RGRW-04203

ADDRESS: Bo Mariana Carr 909 K.M. HM. 2.4, Humacao, PR 00792

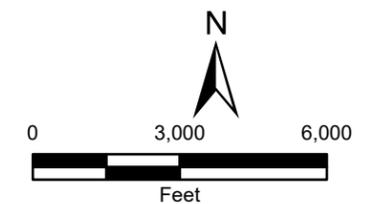
Name of Development: Finca Rosalene LLC

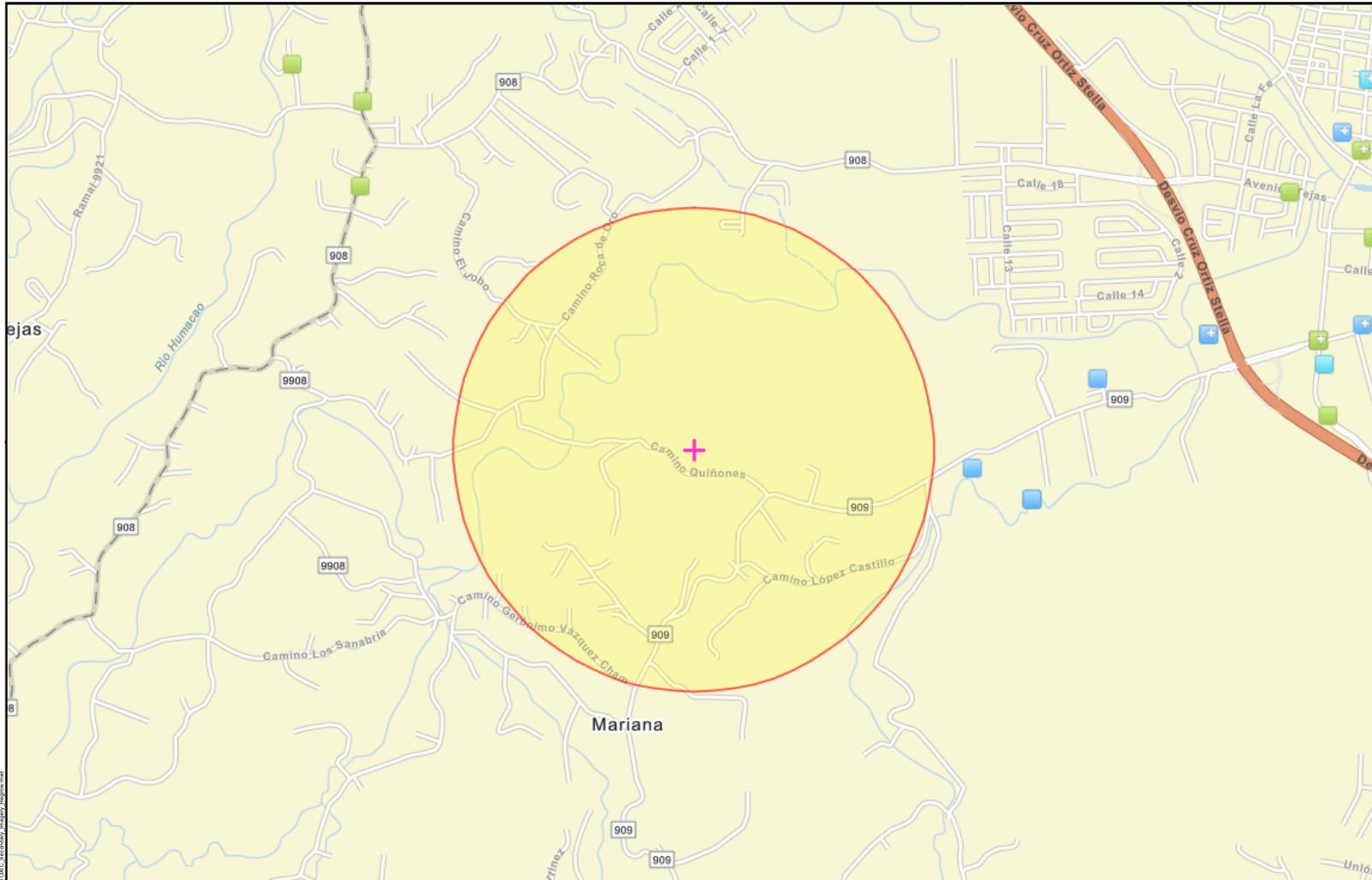
Parcel Coordinates: 18.135553, -65.849834



Source: NOAA's Ocean Service
<https://data.noaa.gov>

Author: TG Date: 10/17/2023





- Legend**
- Superfund (NPL)
 - Toxic Substances Control Act (TSCA)
 - Toxic Releases (TRI)
 - Brownfields (ACRES)
 - Hazardous Waste (RCRAInfo)
 - Water Dischargers (NPDES)
 - Air Pollution (ICIS-AIR)
 - + Project Parcel
 - 3000 Ft Buffer

PUERTO RICO



Figure 9: NEPA Assist Map

APPLICANT ID: PR-RGRW-04203

ADDRESS: Bo Mariana Carr 909 K.M. HM. 2.4, Humacao, PR 00792

Name of Development: Finca Rosalene LLC

Parcel Coordinates: 18.135553, -65.849834

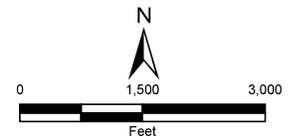


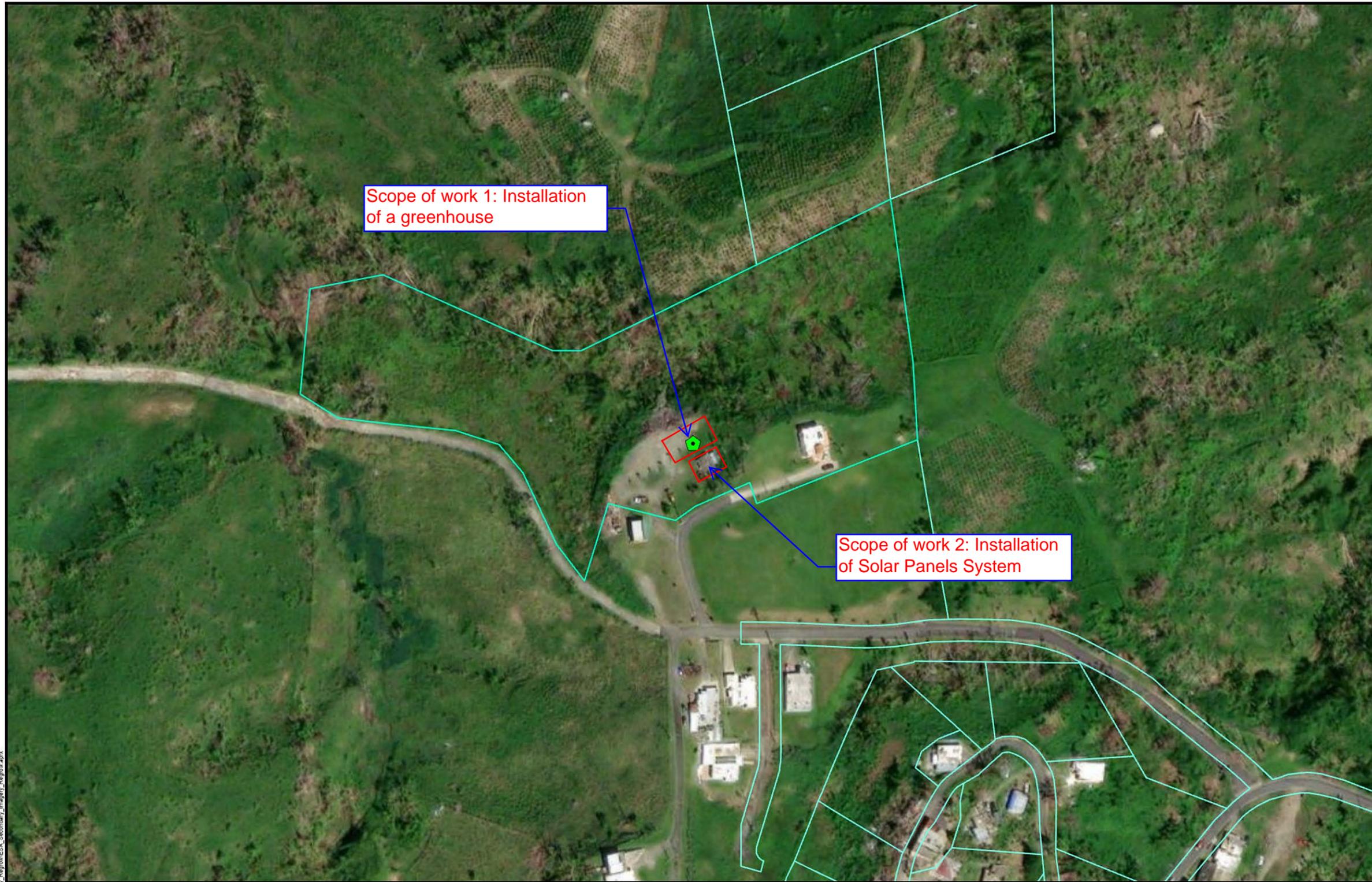
Source: E.P.A.

<https://www.epa.gov/frs/geospatial-data-download-service>

Author: JB/AK

Date: 5/18/2023





PUERTO RICO



Figure 10: ENDANGERED SPECIES ACT

APPLICANT ID: PR-RGRW-04203

ADDRESS: Bo Mariana Carr 909 K.M. HM. 2.4, Humacao, PR 00792

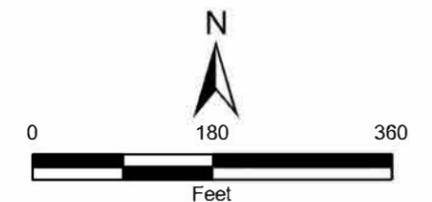
Name of Development: Finca Rosalene LLC

Parcel Coordinates: 18.135553, -65.849834



Source: U.S. FISH & WILDLIFE SERVICE
<https://ecos.fws.gov>

Author: TG Date: 2/13/2024



File Path: Z:\Data\USFWS\PR\Region\ES\Secondary_Images\Region\ES\Secondary_Images\Region.aprx



- Legend**
- ▣ Project Parcel
 - Common Name**
 - ▬ Guajon

Distance to Nearest Critical Habitat:
2843 Feet

PUERTO RICO



Figure 11: CRITICAL HABITATS
APPLICANT ID: PR-RGRW-04203

ADDRESS: Bo Mariana Carr 909 K.M. HM. 2.4, Humacao, PR 00792

Name of Development: Finca Rosalene LLC

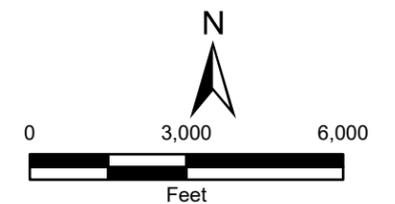
Parcel Coordinates: 18.135553, -65.849834



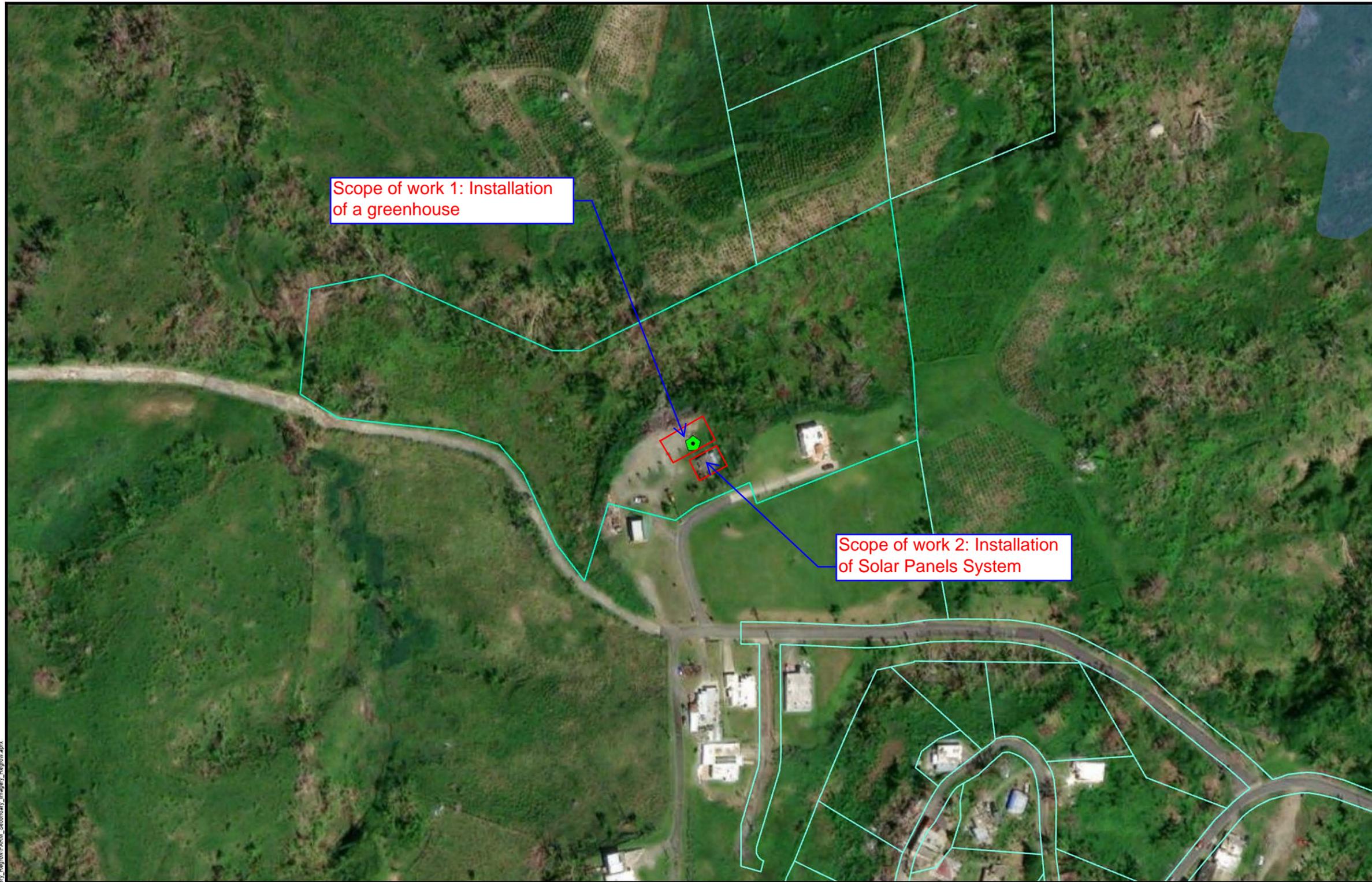
Source: U.S. FISH & WILDLIFE SERVICE
<https://ecos.fws.gov>

Author: TG

Date: 11/3/2023



File Path: Z:\data\USFWS\PR\Regrow\GIS\CriticalHabitats_Secondary_Imagery_Regrow.aprx



Legend

- Project Parcel
- Farm Class**
- 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
- Area of Potential Effect

PUERTO RICO



Figure 12: FARMLAND PROTECTION

APPLICANT ID: PR-RGRW-04203

ADDRESS: Bo Mariana Carr 909 K.M. HM. 2.4, Humacao, PR 00792

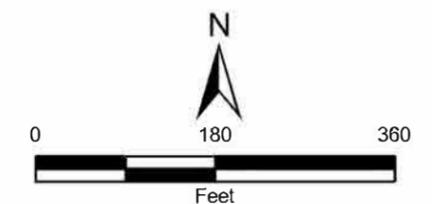
Name of Development: Finca Rosalene LLC

Parcel Coordinates: 18.135553, -65.849834

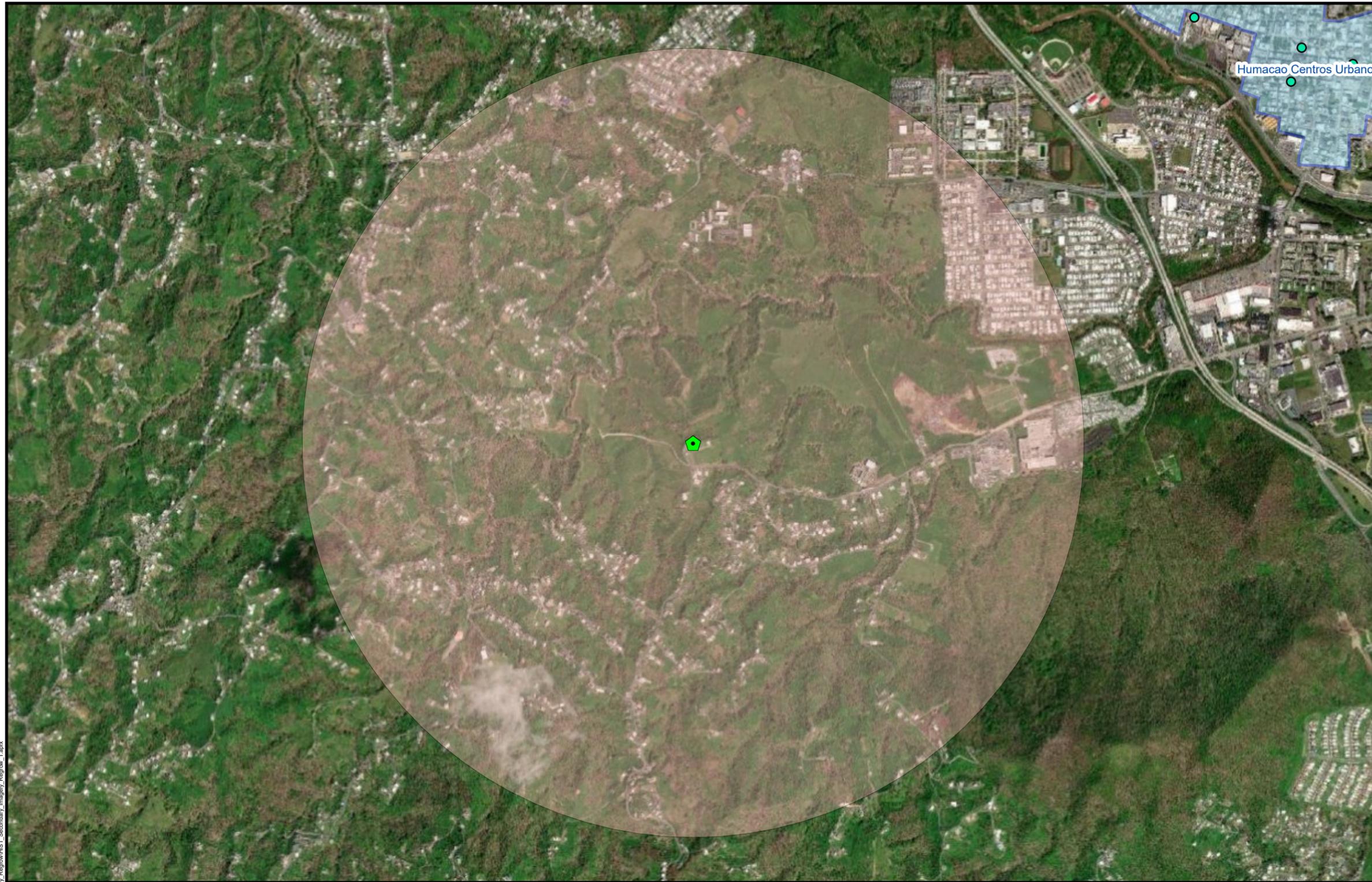


Source: USDA
<https://websoilsurvey.sc.egov.usda.gov>

Author: TG Date: 11/3/2023



File Path: Z:\Data\USDA\PR\Region\APRIL_Secondary_Images\Region\APRIL_Secondary_Images_Region.aprx



- Legend**
- Project Parcel
 - Historic ICP Sites
 - Cultural Resource Building Point
 - Cultural Resource District Point
 - Cultural Resource Site Point
 - Cultural Resource Structure Point
 - Historic Comunidades
 - Traditional Urban Centers
 - Cultural Resource Building Polygon
 - Cultural Resource District Polygon
 - Cultural Resource Site Polygon
 - Cultural Resource Structure Polygon
 - 1 Mile Property Buffer

PUERTO RICO



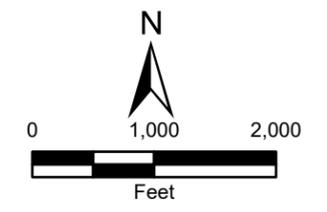
Source: National Park Service
<https://www.nps.gov/>

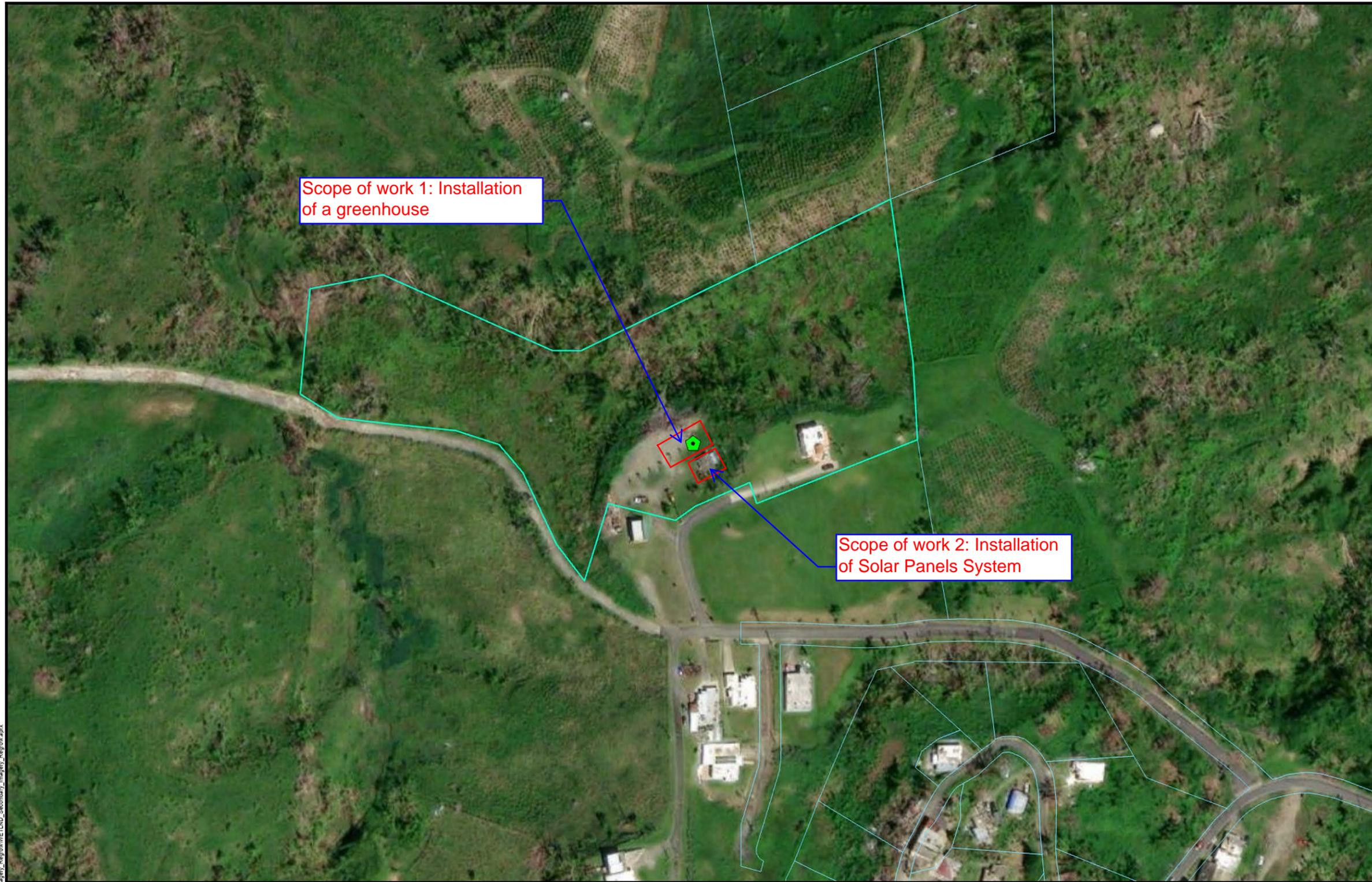
Author: TG Date: 11/3/2023

Figure 13: HISTORIC PRESERVATION
APPLICANT ID: PR-RGRW-04203

ADDRESS: Bo Mariana Carr 909 K.M. HM. 2.4, Humacao, PR 00792

Name of Development: Finca Rosalene LLC
 Parcel Coordinates: 18.135553, -65.849834





- Legend**
- Project Parcel
 - Parcels
- WETLAND TYPE**
- Estuarine and Marine Deepwater
 - Estuarine and Marine Wetland
 - Freshwater Emergent Wetland
 - Freshwater Forested/Shrub Wetland
 - Freshwater Pond
 - Lake
 - Riverine
 - Area of Potential Effect

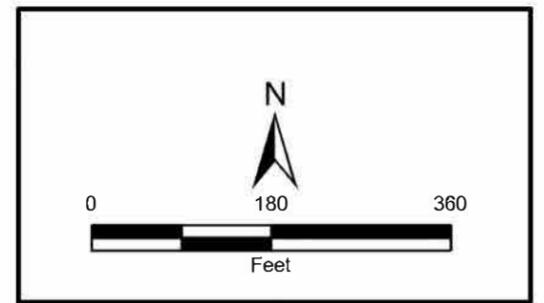
PUERTO RICO



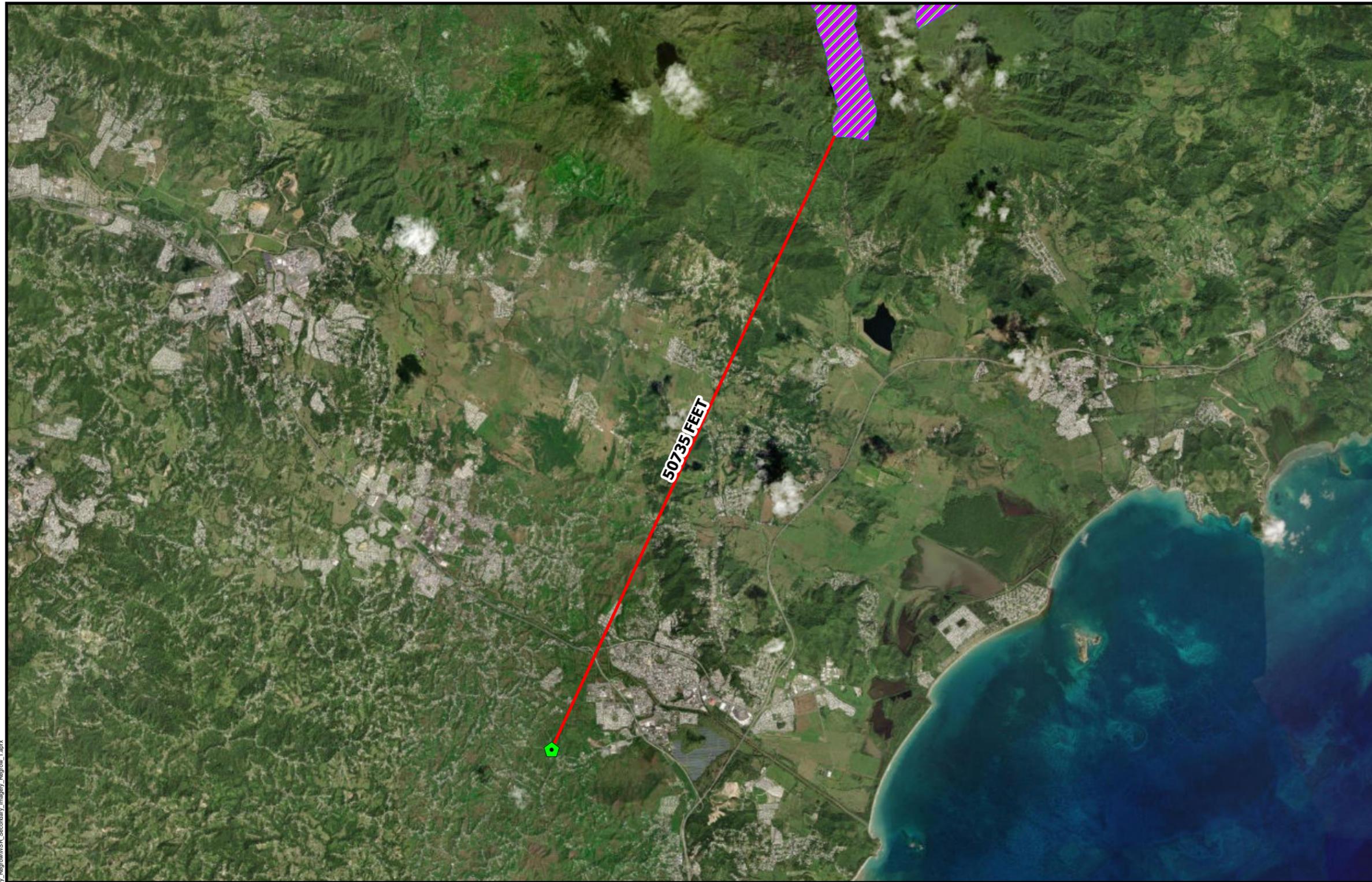
Figure 14: WETLANDS
APPLICANT ID: PR-RGRW-04203
ADDRESS: Bo Mariana Carr 909 K.M. HM. 2.4, Humacao, PR 00792
Name of Development: Finca Rosalene LLC
Parcel Coordinates: 18.135553, -65.849834



Source: U. S. Fish & Wildlife Service
<https://www.fws.gov>
 Author: TG Date: 11/3/2023



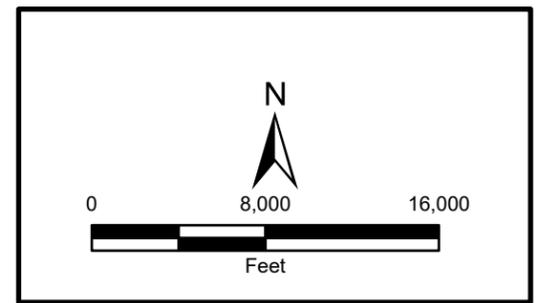
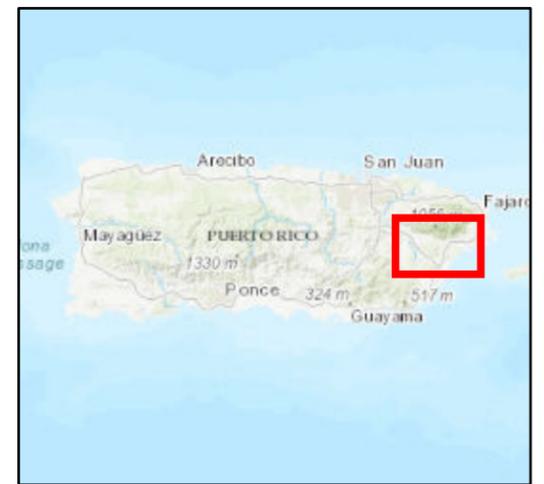
File Path: Z:\data\USFWS\PR\Regrow\WETLAND_Secondary_Images_Regrow\WETLAND_Secondary_Images_Regrow.aprx



- Legend**
-  Project Parcel
 -  Wild and Scenic Rivers

Distance to Nearest Wild and Scenic River: 50735 Feet

PUERTO RICO



**Figure 15: WILD AND SCENIC RIVERS ACT
 APPLICANT ID: PR-RGRW-04203**

ADDRESS: Bo Mariana Carr 909 K.M. HM. 2.4, Humacao, PR 00792

**Name of Development: Finca Rosalene LLC
 Parcel Coordinates: 18.135553, -65.849834**



Source: U. S. Forest Service
<https://www.fs.usda.gov>

Author: TG Date: 10/23/2023

File Path: Z:\data\USF\TetraTech\Regrow\WRSR_Secondary_Imagery_Regrow_1.aprx



Legend

- Project Parcel
- Parcels
- Landslide Susceptibility**
- Extremely High
- Very High
- High
- Moderate
- Low
- Area of Potential Effect

PUERTO RICO



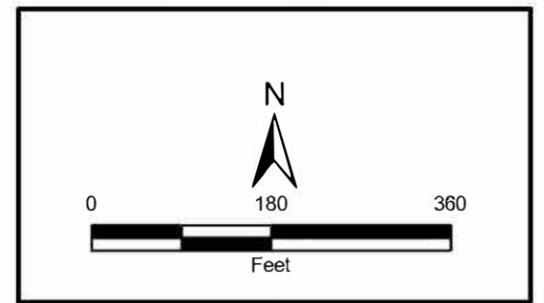
Figure 16: SLOPE AND EROSION
APPLICANT ID: PR-RGRW-04203

ADDRESS: Bo Mariana Carr 909 K.M. HM. 2.4, Humacao, PR 00792

Name of Development: Finca Rosalene LLC
 Parcel Coordinates: 18.135553, -65.849834



Source: PRDOH
<https://usgs.maps.arcgis.com/apps/webappviewer/index.html?id=10506ecc7f15491daee17647f19248ee>
 Author: TG Date: 11/3/2023





- Legend**
- ◆ Project Parcel
 - Streamflow and Recharge Source Zones
 - Sole Source Aquifer
 - Biscayne Aquifer SSA

Distance to Nearest Aquifer:
5,561,265 FT

PUERTO RICO



File Path: Z:\data\USRT\TheRegrow\SSA\QUIFER_Secondary_Imagery_Regrow_L1.aprx

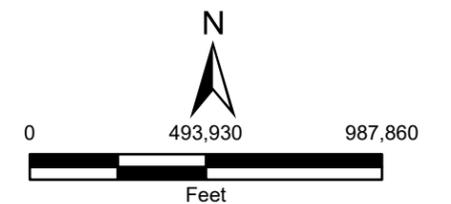


Source: USGS
<https://catalog.data.gov/dataset/epa-sole-source-aquifers>
 Author: TG Date: 2/21/2024

Figure 17: SOLE SOURCE AQUIFERS
APPLICANT ID: PR-RGRW-04203

ADDRESS: Bo Mariana Carr 909 K.M. HM. 2.4, Humacao, PR 00792

Name of Development: Finca Rosalene LLC
 Parcel Coordinates: 18.135553, -65.849834



APPENDIX C

Additional Information



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 29, 2024

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

* The 1997 Primary Annual PM-2.5 NAAQS (level of 15 µg/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:

PUERTO RICO

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	1112131415161718192021222324	//		Part	32,185	72/013
Bayamon Municipio	Sulfur Dioxide (2010)	San Juan, PR	18192021222324	//		Part	22,921	72/021
Catano Municipio	Sulfur Dioxide (2010)	San Juan, PR	18192021222324	//		Whole	28,140	72/033
Guaynabo Municipio	PM-10 (1987)	Mun. of Guaynabo, PR	929394959697989900010203040506070809	02/11/2010	Moderate	Part	90,470	72/061
Guaynabo Municipio	Sulfur Dioxide (2010)	San Juan, PR	18192021222324	//		Part	23,802	72/061
Salinas Municipio	Sulfur Dioxide (2010)	Guayama-Salinas, PR	18192021222324	//		Part	23,401	72/123
San Juan Municipio	Sulfur Dioxide (2010)	San Juan, PR	18192021222324	//		Part	147,963	72/127
Toa Baja Municipio	Sulfur Dioxide (2010)	San Juan, PR	18192021222324	//		Part	52,441	72/137

Important Notes

EJScreen Community Report

This report provides environmental and socioeconomic information for user-defined areas, and combines that data into environmental justice and supplemental indexes.

Humacao Municipio, PR

1 mile Ring around the Area
Population: 3,630
Area in square miles: 3.37

A3 Landscape



April 11, 2024
PR-RGRW-04203
Search Result (point)

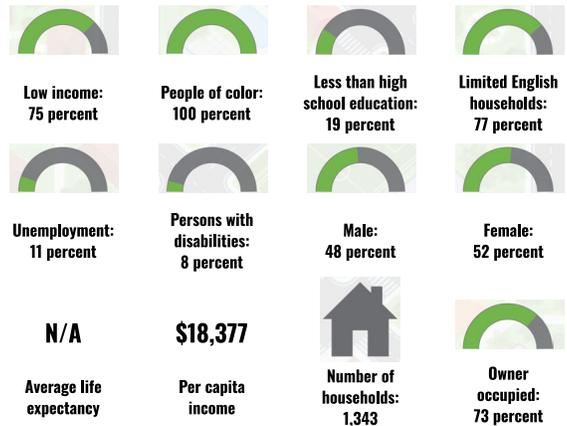
1:2,257
0 0.03 0.06 0.1 mi
0 0.04 0.09 0.17 km

Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community, Esri, HERE, Garmin, IBC

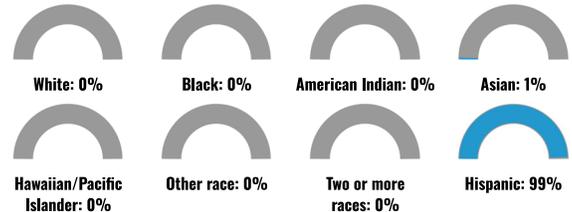
LANGUAGES SPOKEN AT HOME

LANGUAGE	PERCENT
English	4%
Spanish	96%
Total Non-English	96%

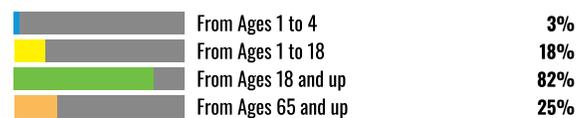
COMMUNITY INFORMATION



BREAKDOWN BY RACE



BREAKDOWN BY AGE



LIMITED ENGLISH SPEAKING BREAKDOWN



Notes: Numbers may not sum to totals due to rounding. Hispanic population can be of any race. Source: U.S. Census Bureau, American Community Survey (ACS) 2017-2021. Life expectancy data comes from the Centers for Disease Control.

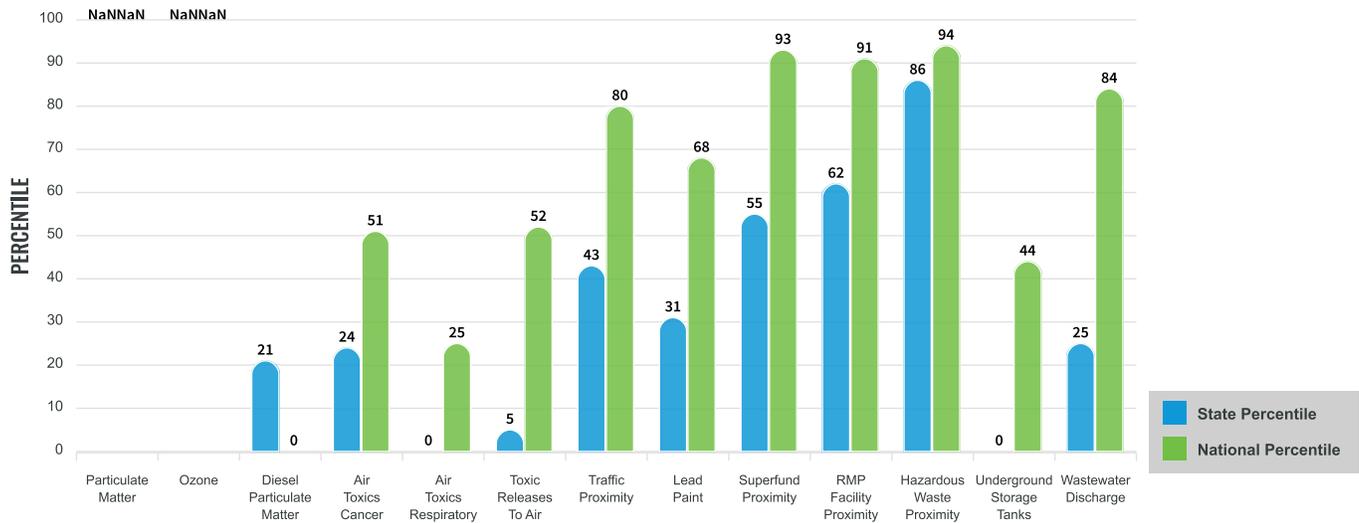
Environmental Justice & Supplemental Indexes

The environmental justice and supplemental indexes are a combination of environmental and socioeconomic information. There are thirteen EJ indexes and supplemental indexes in EJScreen reflecting the 13 environmental indicators. The indexes for a selected area are compared to those for all other locations in the state or nation. For more information and calculation details on the EJ and supplemental indexes, please visit the [EJScreen website](#).

EJ INDEXES

The EJ indexes help users screen for potential EJ concerns. To do this, the EJ index combines data on low income and people of color populations with a single environmental indicator.

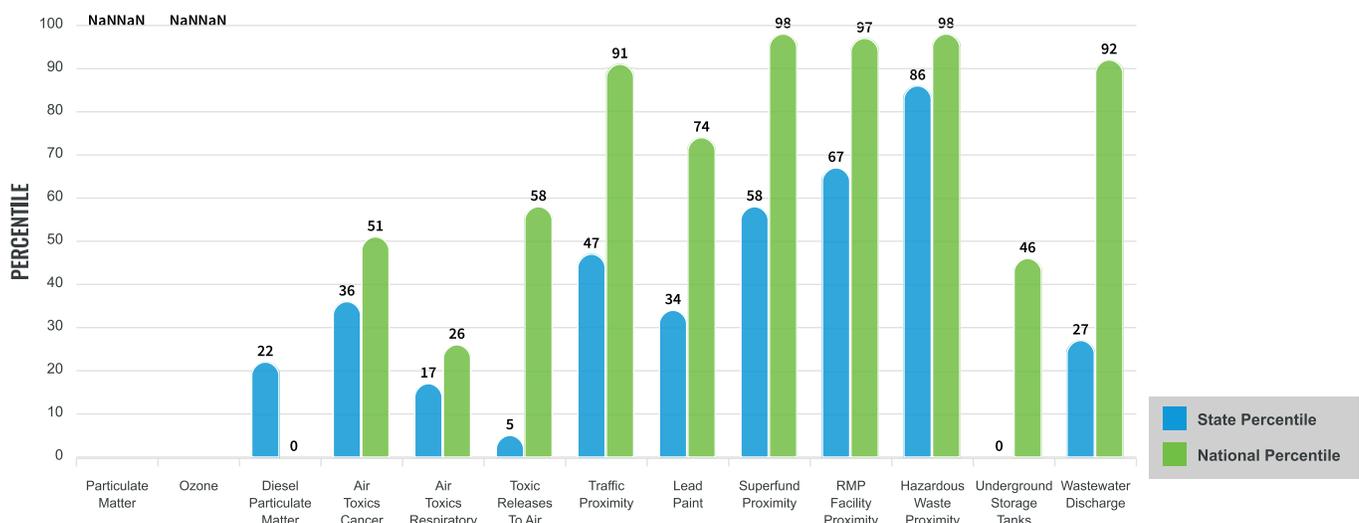
EJ INDEXES FOR THE SELECTED LOCATION



SUPPLEMENTAL INDEXES

The supplemental indexes offer a different perspective on community-level vulnerability. They combine data on percent low-income, percent linguistically isolated, percent less than high school education, percent unemployed, and low life expectancy with a single environmental indicator.

SUPPLEMENTAL INDEXES FOR THE SELECTED LOCATION



These percentiles provide perspective on how the selected block group or buffer area compares to the entire state or nation.

Report for 1 mile Ring around the Area

EJScreen Environmental and Socioeconomic Indicators Data

SELECTED VARIABLES	VALUE	STATE AVERAGE	PERCENTILE IN STATE	USA AVERAGE	PERCENTILE IN USA
POLLUTION AND SOURCES					
Particulate Matter ($\mu\text{g}/\text{m}^3$)	N/A	N/A	N/A	8.08	N/A
Ozone (ppb)	N/A	N/A	N/A	61.6	N/A
Diesel Particulate Matter ($\mu\text{g}/\text{m}^3$)	0.0186	0.0667	19	0.261	0
Air Toxics Cancer Risk* (lifetime risk per million)	18	20	0	25	1
Air Toxics Respiratory HI*	0.12	0.19	0	0.31	1
Toxic Releases to Air	34	4,300	4	4,600	15
Traffic Proximity (daily traffic count/distance to road)	68	180	47	210	47
Lead Paint (% Pre-1960 Housing)	0.043	0.16	30	0.3	24
Superfund Proximity (site count/km distance)	0.088	0.15	55	0.13	62
RMP Facility Proximity (facility count/km distance)	0.23	0.47	58	0.43	62
Hazardous Waste Proximity (facility count/km distance)	1.6	0.76	84	1.9	69
Underground Storage Tanks (count/km ²)	0.28	1.7	60	3.9	34
Wastewater Discharge (toxicity-weighted concentration/m distance)	0.00051	2.3	25	22	43
SOCIOECONOMIC INDICATORS					
Demographic Index	87%	83%	50	35%	98
Supplemental Demographic Index	46%	43%	50	14%	99
People of Color	100%	96%	31	39%	98
Low Income	75%	70%	49	31%	95
Unemployment Rate	11%	15%	45	6%	83
Limited English Speaking Households	77%	67%	67	5%	99
Less Than High School Education	19%	21%	47	12%	80
Under Age 5	3%	4%	48	6%	28
Over Age 64	25%	22%	65	17%	81
Low Life Expectancy	N/A	N/A%	N/A	20%	N/A

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

Sites reporting to EPA within defined area:

Superfund	0
Hazardous Waste, Treatment, Storage, and Disposal Facilities	0
Water Dischargers	4
Air Pollution	0
Brownfields	0
Toxic Release Inventory	3

Other community features within defined area:

Schools	3
Hospitals	1
Places of Worship	0

Other environmental data:

Air Non-attainment	No
Impaired Waters	Yes

Selected location contains American Indian Reservation Lands*	No
Selected location contains a "Justice40 (CEJST)" disadvantaged community	Yes
Selected location contains an EPA IRA disadvantaged community	Yes

Report for 1 mile Ring around the Area

EJScreen Environmental and Socioeconomic Indicators Data

HEALTH INDICATORS					
INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Low Life Expectancy	N/A	N/A	N/A	20%	N/A
Heart Disease	N/A	N/A	N/A	6.1	N/A
Asthma	N/A	N/A	N/A	10	N/A
Cancer	N/A	N/A	N/A	6.1	N/A
Persons with Disabilities	7.9%	21.6%	4	13.4%	18

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

CRITICAL SERVICE GAPS					
INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Broadband Internet	25%	32%	41	14%	83
Lack of Health Insurance	5%	7%	30	9%	34
Housing Burden	No	N/A	N/A	N/A	N/A
Transportation Access	No	N/A	N/A	N/A	N/A
Food Desert	No	N/A	N/A	N/A	N/A

Report for 1 mile Ring around the Area

APPENDIX D
Endangered Species

From: [Caribbean ES, FW4](#)
To: [environmentcdbg](#)
Subject: Re: [EXTERNAL] USFWS Endangered Species Concurrence Consultation_CDBG-DR_PR-RGRW-04203
Date: Monday, August 19, 2024 9:53:28 AM
Attachments: [image003.png](#)

Good Morning

The Service acknowledge receipt the Dkey NLAA Concurrence letter (Project code: 2024-0062992) for the project named CDBG-DR PR-RGRW-04203 – Finca Rosalene LLC, Humacao. No further consultation is required. Keep this email for your records.

Thanks

Caribbean Ecological Services Field Office
(786) 244-0081
caribbean_es@fws.gov

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

From: environmentcdbg <environmentcdbg@vivienda.pr.gov>
Sent: Tuesday, August 6, 2024 11:08 AM
To: Caribbean ES, FW4 <Caribbean_ES@fws.gov>; Mena, Lourdes <Lourdes_Mena@fws.gov>
Subject: [EXTERNAL] USFWS Endangered Species Concurrence Consultation_CDBG-DR_PR-RGRW-04203

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

To whom it may concern:

In order to complete the environmental review process regarding the case **PR-RGRW-04203** for the CDBG-DR Re-Grow PR Urban-Rural Agriculture Program, we are requesting USFWS concurrence with the determinations included in the attached letter.

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

Sincerely,

Permits and Environmental Compliance Division
Disaster Recovery Office
environmentcdbg@vivienda.pr.gov | 787.274.2527

Visit us: recuperacion.pr.gov
Contact us: infocdbg@vivienda.pr.gov

DEPARTAMENTO DE LA
VIVIENDA



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August 5, 2024

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

**RE: Puerto Rico Department of Housing / Re-Grow Program
PR-RGRW-04203 – Finca Rosalene LLC
Endangered Species Concurrence for NLAA Determination**

Dear Ms. Mena:

The Puerto Rico Department of Housing (PRDOH) is requesting an informal consultation under Section 7 (a)(2) of the Endangered Species Act (Act) (87 Stat. 884, as amended; 16 United States Code 1531 et seq.), and in accordance with the Fish and Wildlife Coordination Act (47 Stat. 401, as amended; 16 U.S.C. 661 et seq.) for the proposed project PR-RGRW-04203, located at PR-909 Road Km 2.4, Mariana Ward, Humacao, PR 00792 (Parcel ID# 304-054-742-54).

The project is part of the Re-Grow Puerto Rico Urban-Rural Agriculture Program (RGRW) that aims to increase agricultural capacity while promoting and increasing food security island wide. This Program will enhance and expand agricultural production related to economic revitalization and sustainable development activities.

The proposed project, PR-RGRW-04203, has two scopes of work (SOW). SOW #1 is for the purchase and installation of a greenhouse at coordinates 18.1355539, -65.8498349. The proposed greenhouse is a 30-foot x 96-foot galvanized metal structure with plastic and Saran cover, that includes the irrigation system for the hydroponic growing of the lettuce and coriander seeds to be purchased. The poles of the metal structure will be 1½-inch x 10-foot tubes with welded anchors at the beginning, end, and to its base with an underground depth of 2 feet deep. SOW # 2 is for the purchase and installation of a solar power system to be placed on top of the storage building located at coordinates 18.1355007, -65.8497743. The proposed system is a 2 kilos system that consists of six 360 solar panels, solar charge controller and regulator, four 6V/460AMP batteries, solar panels rack, 2K to 24V solar inverter, programming, cabling and materials. The installation of the system includes an electrical transfer switch connection. The structure

is currently used for storage and will be used to store the purchased supply materials. Power generated from the solar system will be used to provide electricity to the aforementioned greenhouse and storage area. Water service will be extended from the main property's PRASA connection to the storage building through an underground 70 linear feet, ¾-inch diameter, PVC piping system to provide water to the greenhouse's hydroponic system.

The proposed project is located in a rural residential area surrounded by farmlands and vegetation. The property lies north of PR-909 Road in Humacao, which runs east to west in this area. There are crops and vegetation behind the buildings that are close along the road. Trees will not be removed during this project. Urban developments are located southeast and northwest of the parcel. The National Wetlands Inventory indicated that no wetlands are located within the proposed project area.

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

Name of the species	Threatened/Endangered/Candidate
Puerto Rican Boa (<i>Chilabothrus inornatus</i>)	Endangered
Guajón (<i>Eleutherodactylus cooki</i>)	Threatened
Critical Habitat	
There are no critical habitats at this location.	

Based on site review and site photos, no suitable habitat was found within the proposed project area for the listed species.

The Puerto Rican Boa habitat requirements per the U.S. Fish and Wildlife Service are as follows: "The Puerto Rican boa is considered a habitat generalist and tolerates a wide variety of habitat types (terrestrial and arboreal). These include: rocky areas and haystack hills, trees and branches, rotting stumps, caves (entrances and inside), plantations, various types of forested areas such as karst and mangrove forests, forested urban and rural areas, and along streams and road edges. Cave ecosystems and their surrounding forests are considered particularly important because of the availability of such ecological resources such as prey, shelter, thermal gradients, and mates for reproduction."

The coquí guajón habitat requirements per the U.S. Fish and Wildlife Service are as follows: "The coquí guajón utilizes large to small caves and crevices formed by different sized granite boulders within rocky streams. This type of habitat is commonly known as guajonal. The species also has been detected using road culverts and adjacent to Puerto Rico's sewer and aqueduct water facilities. Projects that occur upstream or upland where the species occurs may also impact its habitat further downstream."

Based on the nature of the project, previous site disturbance, scope of work, information available, and a careful analysis of the Project Site, and IPaC species list, we have made the following effects determinations:

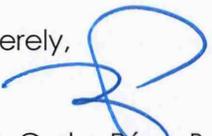
Name of the species	Effect Determination	Conservation Measures that will be implemented
Puerto Rican Boa (<i>Chilabothrus inornatus</i>)	Not Likely to Adversely Affect (NLAA)	USFWS Puerto Rican Boa Conservation Measures 2024
Guajón (<i>Eleutherodactylus cooki</i>)	Not Likely to Adversely Affect (NLAA)	USFWS Guajón Conservation Measures 2023

Given the current land use and frequent disturbance and lack of sightings of the listed species within the vicinity, PRDOH has determined that the project is not likely to adversely affect the listed species provided the attached Conservation Measures are implemented as part of the proposed project. The automated informal consultation process was completed on August 1st through USFWS Information for Planning and Consultation website (<https://ipac.ecosphere.fws.gov/>).

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.

For any questions or clarifications, please do not hesitate to contact us at the information below.

Thank you in advance for your consideration of this issue.

Sincerely,


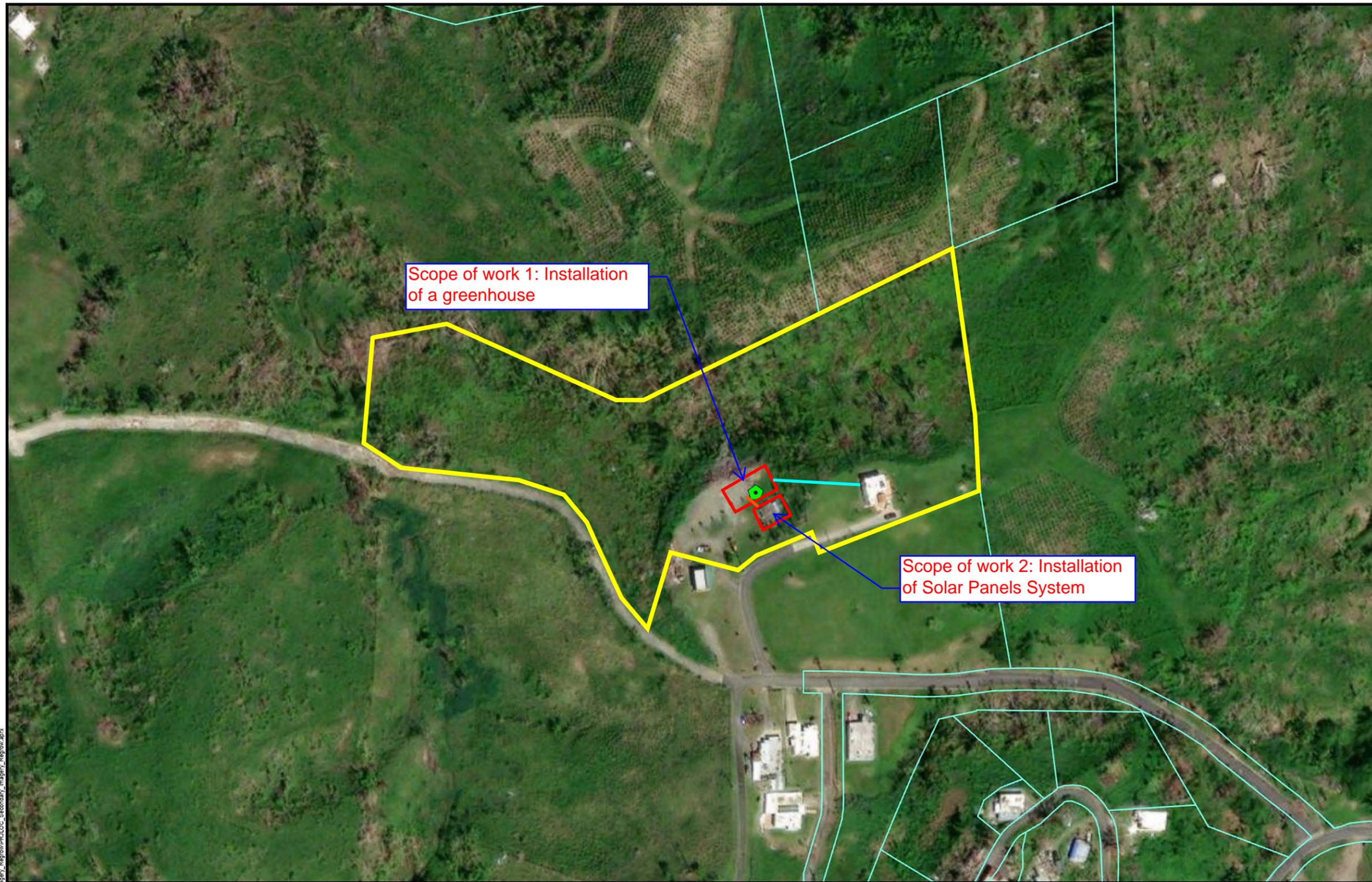
Juan Carlos Pérez Bofill, PE, MEng.
Director – Disaster Recovery, CDBG-DR Program
environmentcdbg@vivienda.pr.gov | 787.274.2527 ext. 4320

Attachments:

- Appendix A:
 - Figure 1 – Project Location Map
 - Figure 2 – Area of Potential Effect Map
 - Figure 3 – Wetland Map
 - Figure 4 – Endangered Species Map
 - Figure 5 – Critical Habitats Map
 - Figure 6 – Farmland Protection Map
- Appendix B: Species List Caribbean Ecological Services and Consistency Letter SOW-1
- Appendix C: Species List Caribbean Ecological Services and Consistency Letter SOW-2
- Appendix D: Site Photos
- Appendix E: USFWS Puerto Rican Boa Conservation Measures 2024
- Appendix F: USFWS Guajón Conservation Measures 2023

C: Angel G. López-Guzmán, MSEM
Deputy Director
Permits and Environmental Compliance Division

Appendix A: Figures



- Legend**
- Project Parcel
 - Parcels
 - Area of Potential Effect
 - Project Parcel Boundaries
 - Power connection
 - Water connection

PUERTO RICO



Project Location

APPLICANT ID: PR-RGRW-04203

ADDRESS: Bo Mariana Carr 909 K.M. HM. 2.4, Humacao, PR 00792

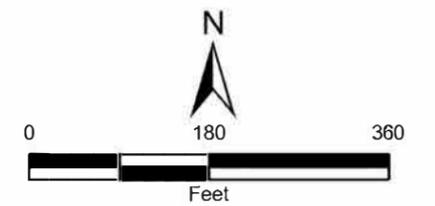
Name of Development: Finca Rosalene LLC

Parcel Coordinates: 18.135553, -65.849834

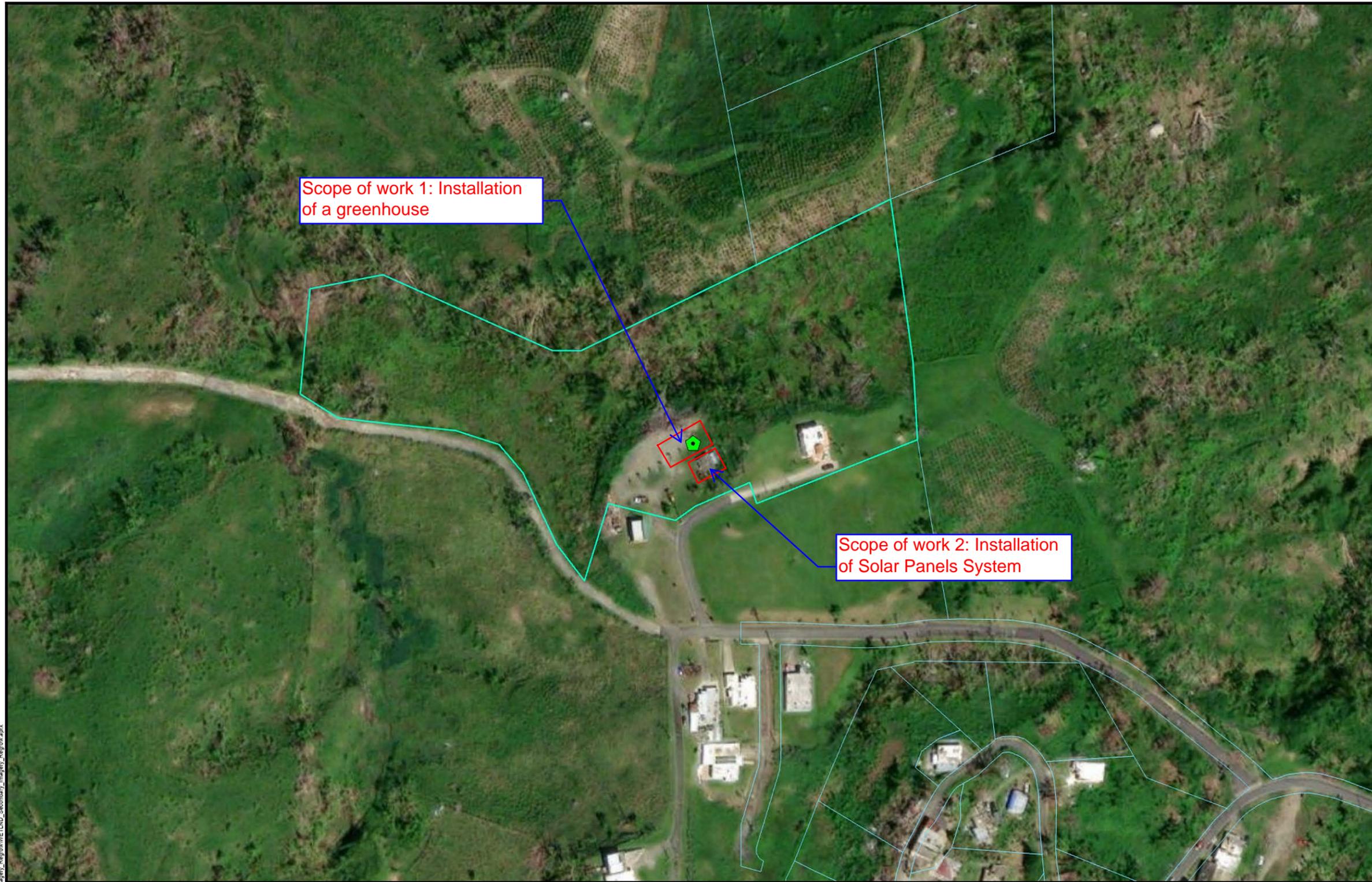


Source: CRIM
<https://catastro.crimpr.net/cdprpc/>

Author: TG Date: 2/13/2024



File Path: Z:\data\US\PR\Regrow\PRLOC_Secondary_Imagery_Regrow\PRLOC_Secondary_Imagery_Regrow.aprx



- Legend**
- Project Parcel
 - Parcels
- WETLAND TYPE**
- Estuarine and Marine Deepwater
 - Estuarine and Marine Wetland
 - Freshwater Emergent Wetland
 - Freshwater Forested/Shrub Wetland
 - Freshwater Pond
 - Lake
 - Riverine
 - Area of Potential Effect

PUERTO RICO



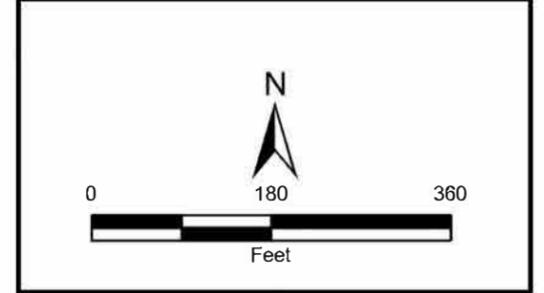
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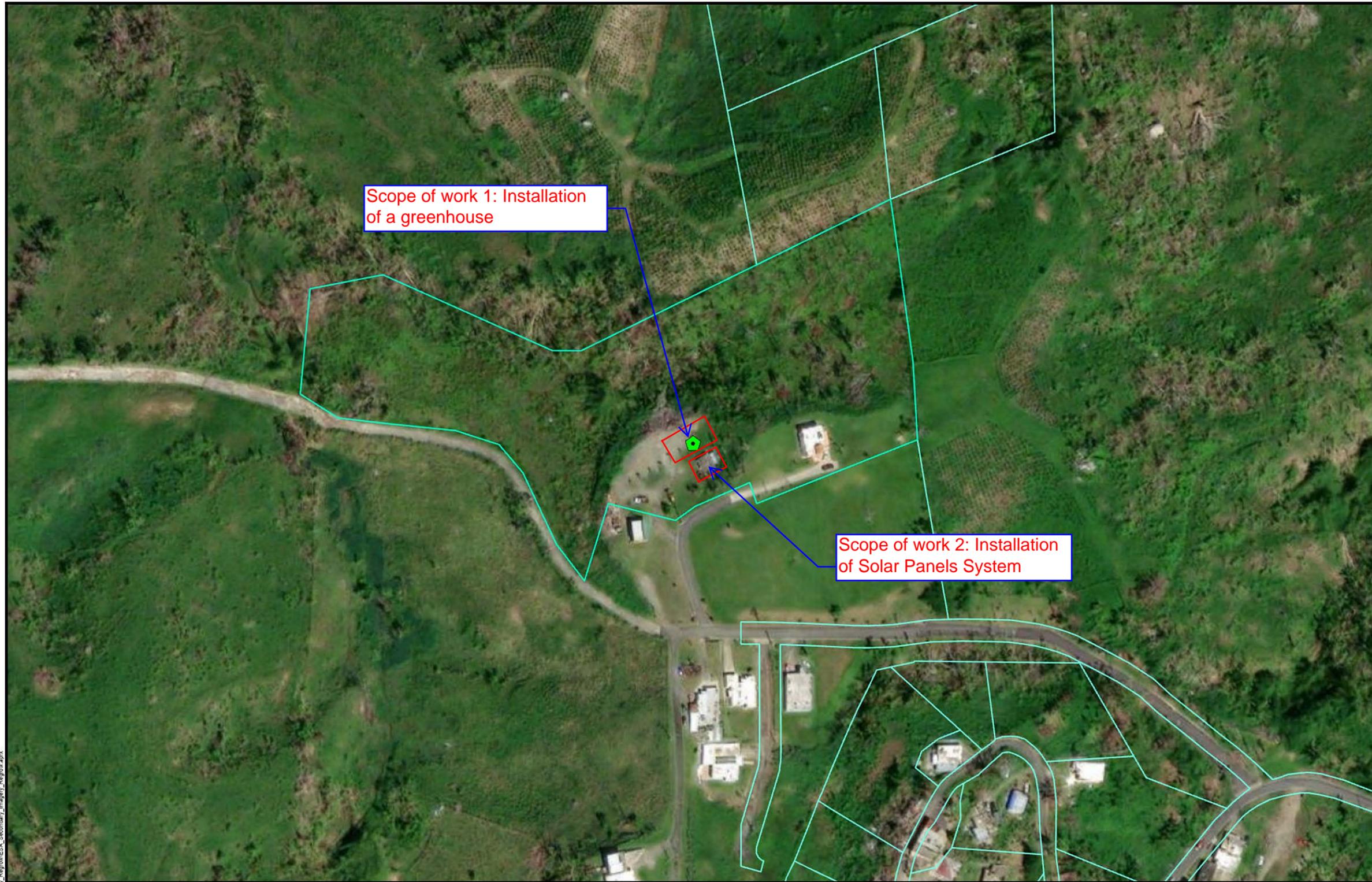


Source: U. S. Fish & Wildlife Service
<https://www.fws.gov>

Author: TG Date: 11/3/2023

WETLANDS
APPLICANT ID: PR-RGRW-04203
ADDRESS: Bo Mariana Carr 909 K.M. HM. 2.4, Humacao, PR 00792
Name of Development: Finca Rosalene LLC
Parcel Coordinates: 18.135553, -65.849834





- Legend**
-  Project Parcel
 -  Parcels
 -  Area of Critical Habitat
 -  Area of Potential Effect

Scope of work 1: Installation of a greenhouse

Scope of work 2: Installation of Solar Panels System

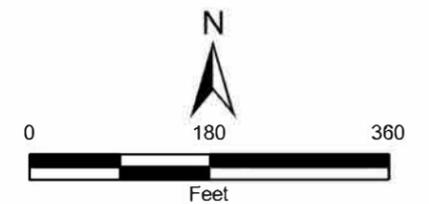
PUERTO RICO



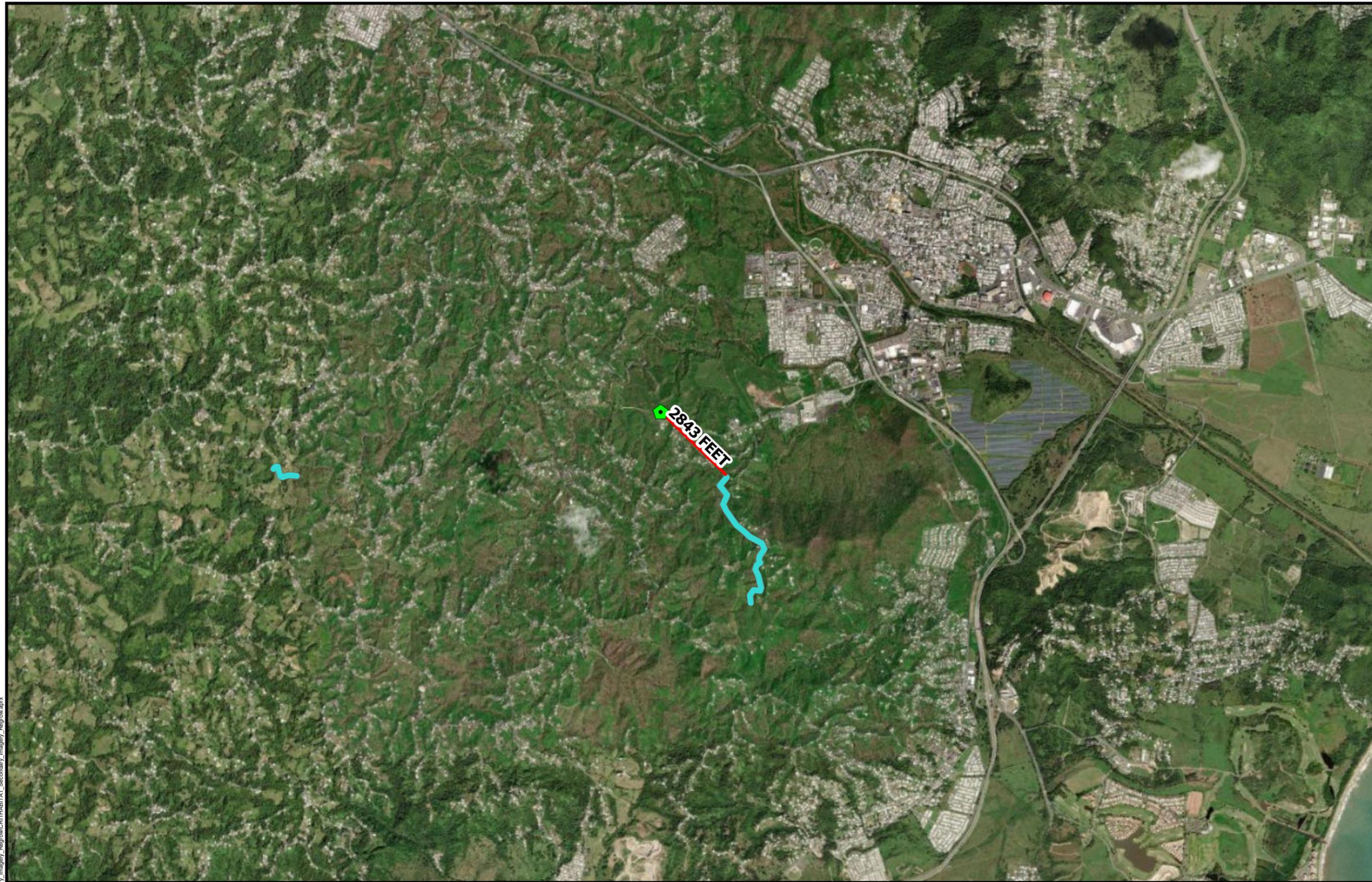
ENDANGERED SPECIES ACT
APPLICANT ID: PR-RGRW-04203
 ADDRESS: Bo Mariana Carr 909 K.M. HM. 2.4, Humacao, PR 00792
 Name of Development: Finca Rosalene LLC
 Parcel Coordinates: 18.135553, -65.849834



Source: U.S. FISH & WILDLIFE SERVICE
<https://ecos.fws.gov>
 Author: TG Date: 2/13/2024



File Path: Z:\Data\USFWS\PR\Region\ESAs\Secondary\img\img\Region\ESA_Secondary\img\img\Region\img\img\Region.aprx



- Legend**
-  Project Parcel
 - Common Name**
 -  Guajon

Distance to Nearest Critical Habitat:
2843 Feet

PUERTO RICO



CRITICAL HABITATS
APPLICANT ID: PR-RGRW-04203

ADDRESS: Bo Mariana Carr 909 K.M. HM. 2.4, Humacao, PR 00792

Name of Development: Finca Rosalene LLC

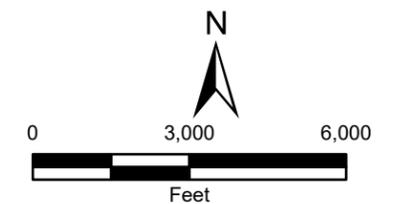
Parcel Coordinates: 18.135553, -65.849834



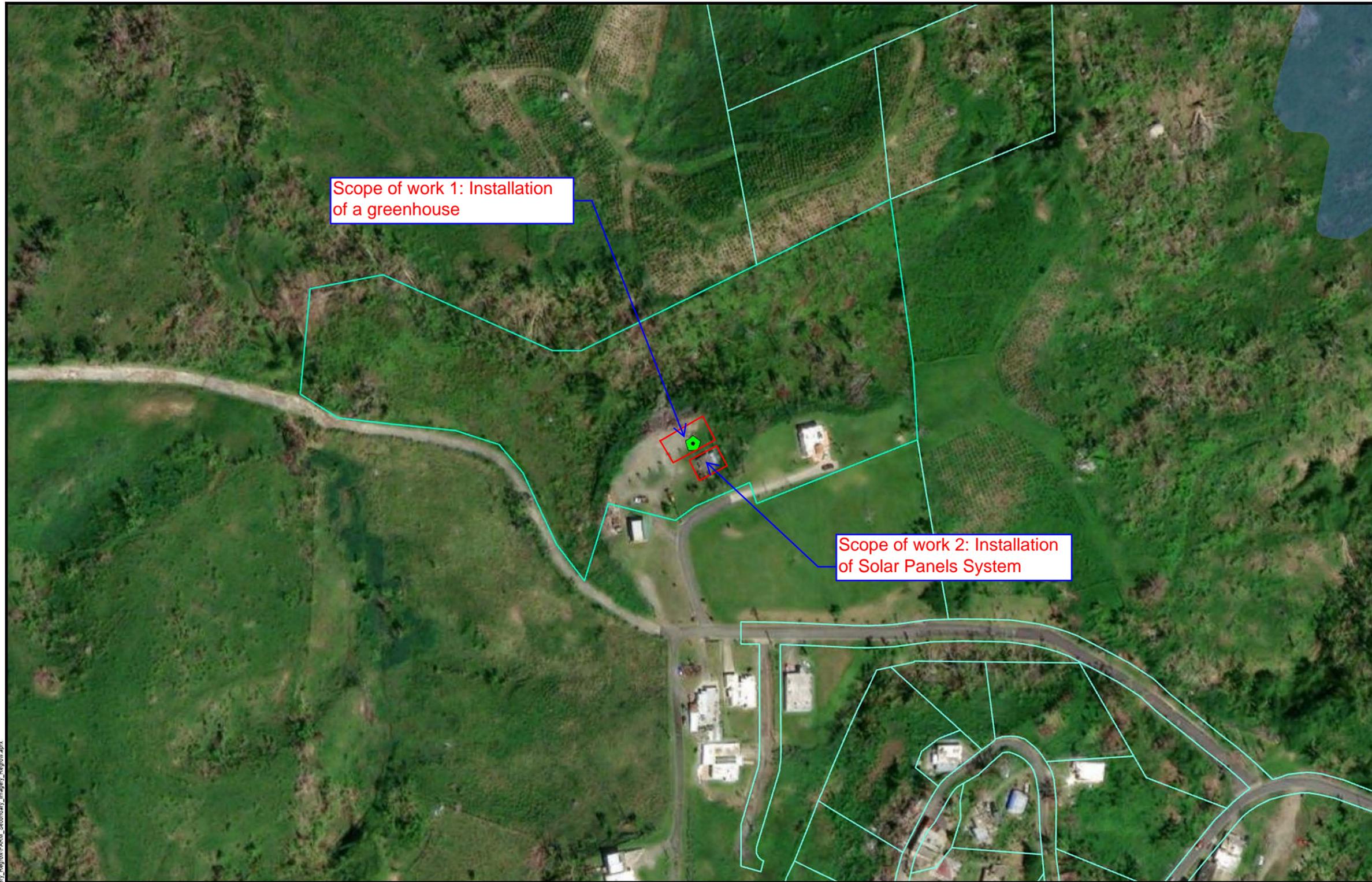
Source: U.S. FISH & WILDLIFE SERVICE
<https://ecos.fws.gov>

Author: TG

Date: 11/3/2023



File Path: Z:\data\USFWS\PR\Regrow\CRITICAL_HABITATS_Secondary_Imagery_Regrow.aprx



Legend

-  Project Parcel
- Farm Class**
-  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
-  Area of Potential Effect

PUERTO RICO



FARMLAND PROTECTION

APPLICANT ID: PR-RGRW-04203

ADDRESS: Bo Mariana Carr 909 K.M. HM. 2.4, Humacao, PR 00792

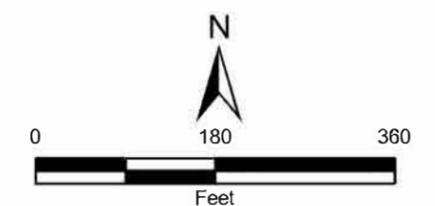
Name of Development: Finca Rosalene LLC

Parcel Coordinates: 18.135553, -65.849834



Source: USDA
<https://websoilsurvey.sc.egov.usda.gov>

Author: TG Date: 11/3/2023



File Path: Z:\Data\USDA\PR\Region\APR\Secondary_Images\Region\APR\Region.aprx

Appendix B:
Species List Caribbean Ecological Services and Consistency Letter
SOW-1



United States Department of the Interior



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

In Reply Refer To:

08/01/2024 12:18:56 UTC

Project Code: 2024-0062992

Project Name: PR-RGRW-04203 SOW 1

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

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

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

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

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

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

This species list is provided by:

Caribbean Ecological Services Field Office

caribbean_es@fws.gov

Post Office Box 491

Boqueron, PR 00622-0491

(786) 244-0081

Attachment(s):

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

OFFICIAL SPECIES LIST

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

This species list is provided by:

Caribbean Ecological Services Field Office

Post Office Box 491

Boqueron, PR 00622-0491

(939) 320-3135

PROJECT SUMMARY

Project Code: 2024-0062992

Project Name: PR-RGRW-04203 SOW 1

Project Type: Restoration / Enhancement - Agricultural

Project Description: The scope of work 1 (SOW-1) is the purchase and installation of a greenhouse at coordinates 18.1355539, -65.8498349. The proposed greenhouse is a 30-foot (ft) x 96 ft galvanized metal structure with plastic and Saran cover that includes the irrigation system for the hydroponic growing of the lettuce and coriander seeds to be purchased. The poles of the metal structure will be tubes 1 ½ inches (") x10 ft with welded anchors at the beginning and end of each ship and to its base with an underground depth of 2' deep. Water service will be extended from the main property PRASA connection to the storage building through an underground 70 ft linear feet, 3/4" diameter PVC piping system to provide water to the greenhouse hydroponic system. While the applicant plans to pay for this activity themselves and no HUD funds would be utilized for this portion of work, the potential impacts from this action are included in the analyses below and it is contained within the delimited Area of Potential Effect (APE). The visual APE is the viewshed of the proposed project. The proposed project APE total area is approximately 0.13 acres.

Project Location:

The approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/@18.1355874,-65.8496501926741,14z>



Counties: Humacao County, Puerto Rico

ENDANGERED SPECIES ACT SPECIES

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

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

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA 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.

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/TSGMPYJFXRBBXKV4OOZKQ253UQ/documents/generated/7159.pdf	Endangered

AMPHIBIANS

NAME	STATUS
Guajon <i>Eleutherodactylus cooki</i> There is final critical habitat for this species. Your location does not overlap the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/6963 General project design guidelines: https://ipac.ecosphere.fws.gov/project/TSGMPYJFXRBBXKV4OOZKQ253UQ/documents/generated/7136.pdf	Threatened

CRITICAL HABITATS

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

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

USFWS NATIONAL WILDLIFE REFUGE LANDS AND FISH HATCHERIES

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

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

BALD & GOLDEN EAGLES

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

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

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

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

MIGRATORY BIRDS

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

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

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

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

WETLANDS

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

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

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

THERE ARE NO WETLANDS WITHIN YOUR PROJECT AREA.

IPAC USER CONTACT INFORMATION

Agency: Tetra Tech
Name: Shelby McDowell
Address: 2301 Lucien Way #120
City: Maitland
State: FL
Zip: 32751
Email: shelby.mcdowell@tetrattech.com
Phone: 4096591563

LEAD AGENCY CONTACT INFORMATION

Lead Agency: Department of Housing and Urban Development



United States Department of the Interior



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

In Reply Refer To:

08/01/2024 12:33:31 UTC

Project code: 2024-0062992

Project Name: PR-RGRW-04203 SOW 1

Subject: Concurrence letter for the project named 'PR-RGRW-04203 SOW 1' 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 August 01, 2024, Shelby McDowell used the Caribbean DKey; dated April 03, 2024, in the U.S. Fish and Wildlife Service's online [IPaC application](#) to evaluate potential impacts to federally listed species, from a project named 'PR-RGRW-04203 SOW 1'. The project is located in Humacao County, Puerto Rico (shown below).

The approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/@18.1355874,-65.8496501926741,14z>



The following description was provided for the project 'PR-RGRW-04203 SOW 1':

The scope of work 1 (SOW-1) is the purchase and installation of a greenhouse at coordinates 18.1355539, -65.8498349. The proposed greenhouse is a 30-foot (ft) x 96 ft galvanized metal structure with plastic and Saran cover that includes the irrigation system for the hydroponic growing of the lettuce and coriander seeds to be purchased. The poles of the metal structure will be tubes 1 ½ inches (") x10 ft with welded anchors at the beginning and end of each ship and to its base with an underground depth of 2' deep. Water service will be extended from the main property PRASA connection to the storage building through an underground 70 ft linear feet, 3/4" diameter PVC piping system to provide water to the greenhouse hydroponic system. While the applicant plans to pay for this activity themselves and no HUD funds would be utilized for this portion of work, the potential impacts from this action are included in the analyses below and it is contained within the delimited Area of Potential Effect (APE). The visual APE is the viewshed of the proposed project. The proposed project APE total area is approximately 0.13 acres.

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
Guajon (<i>Eleutherodactylus cooki</i>)	Threatened	NLAA
Puerto Rican Boa (<i>Chilabothrus inornatus</i>)	Endangered	NLAA

Based on the answers provided in IPaC, the proposed project is consistent with a "may affect but is not likely to adversely affect" (NLAA) for the species listed above because your project impacts to the species will be avoided or minimized using the **Conservation Measures** you agreed to implement. These conservation measures must be implemented during the project development to ensure compliance with Section 7(a)(2) of the ESA.

No further action is required for the species listed above. However, be aware that reinitiation of consultation may be necessary if later modifications are made to the project so that it no longer meets the criteria or outcome described above, or if new information reveals effects of the action that could affect listed species or critical habitat in a manner or to an extent not previously considered, or if a new species is listed.

The Service will notify you within 30 calendar days if we determine that this proposed Action does not meet the criteria for a "may affect, not likely to adversely affect" (NLAA) determination for federally listed species in the Caribbean. If we do not notify you within that timeframe, you may proceed with the Action under the terms of the NLAA concurrence provided here. This verification period allows the Caribbean Ecological Services Field Office to apply local knowledge to evaluate the Action, as we may identify a small subset of actions having unanticipated impacts. In such instances, the Caribbean Ecological Services Field Office may request additional information to verify the effects determination reached through the DKey.

Note: Projects located within the range of the Puerto Rican boa or the Virgin Islands tree boa might encounter these species during project activities. **This letter does not provide take to handle or move these species.** If relocation of the species is needed, please contact either the

Puerto Rico Department of Natural Resources (DNER) at 787-724-5700, 787-230-5550, or 787-771-1124 for projects in Puerto Rico, or the Virgin Islands Department of Planning and Natural Resources, Division of Fish and Wildlife (DFW) at 340-775-6762 for projects in the Virgin Islands. Otherwise, contact the Caribbean Ecological Services Field Office (caribbean_es@fws.gov) to determine whether the consultation needs to be reinitiated.

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

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

Action Description

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

1. Name

PR-RGRW-04203 SOW 1

2. Description

The following description was provided for the project 'PR-RGRW-04203 SOW 1':

The scope of work 1 (SOW-1) is the purchase and installation of a greenhouse at coordinates 18.1355539, -65.8498349. The proposed greenhouse is a 30-foot (ft) x 96 ft galvanized metal structure with plastic and Saran cover that includes the irrigation system for the hydroponic growing of the lettuce and coriander seeds to be purchased. The poles of the metal structure will be tubes 1 ½ inches (") x10 ft with welded anchors at the beginning and end of each ship and to its base with an underground depth of 2' deep. Water service will be extended from the main property PRASA connection to the storage building through an underground 70 ft linear feet, 3/4" diameter PVC piping system to provide water to the greenhouse hydroponic system. While the applicant plans to pay for this activity themselves and no HUD funds would be utilized for this portion of work, the potential impacts from this action are included in the analyses below and it is contained within the delimited Area of Potential Effect (APE). The visual APE is the viewshed of the proposed project. The proposed project APE total area is approximately 0.13 acres.

The approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/@18.1355874,-65.8496501926741,14z>



QUALIFICATION INTERVIEW

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

No

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

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

No

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

No

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

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

No

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

No

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

No

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

No

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

No

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

No

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

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

No

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

Yes

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

Automatically answered

Yes

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

Yes

14. Does the proposed project intersect the Coquí Guajón area of influence?

Automatically answered

Yes

15. Will the proposed project involve the installation of retaining walls or gabions?

No

16. Will the proposed project implement the USFWS Conservation Measures for the Coquí Guajón (*Eleutherodactylus cooki*)?

Yes

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

Yes

IPAC USER CONTACT INFORMATION

Agency: Tetra Tech
Name: Shelby McDowell
Address: 2301 Lucien Way #120
City: Maitland
State: FL
Zip: 32751
Email: shelby.mcdowell@tetrattech.com
Phone: 4096591563

LEAD AGENCY CONTACT INFORMATION

Lead Agency: Department of Housing and Urban Development

Appendix C:
Species List Caribbean Ecological Services and Consistency Letter
SOW-2



United States Department of the Interior



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

In Reply Refer To:

08/01/2024 12:37:25 UTC

Project Code: 2024-0062994

Project Name: PR-RGRW-04203 SOW 2

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

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

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

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

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

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

This species list is provided by:

Caribbean Ecological Services Field Office

caribbean_es@fws.gov

Post Office Box 491

Boqueron, PR 00622-0491

(786) 244-0081

Attachment(s):

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

OFFICIAL SPECIES LIST

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

This species list is provided by:

Caribbean Ecological Services Field Office

Post Office Box 491

Boqueron, PR 00622-0491

(939) 320-3135

PROJECT SUMMARY

Project Code: 2024-0062994

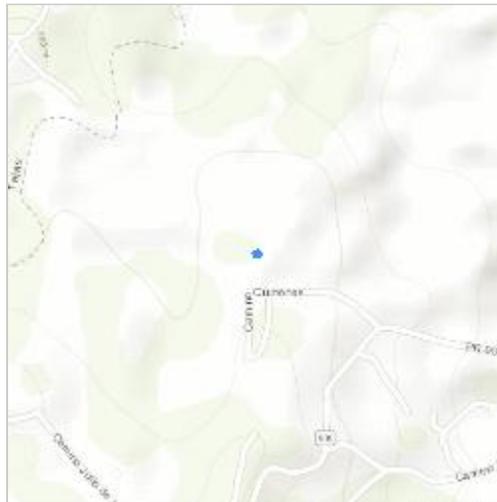
Project Name: PR-RGRW-04203 SOW 2

Project Type: Restoration / Enhancement - Agricultural

Project Description: The scope of work 2 (SOW-2) includes the purchase and installation of a solar power system to be located on top of the storage building located at coordinates 18.1355007, -65.8497743. The proposed system is a 2 kilowatt system that consists of Six (6) 360 watt solar panels, solar charge controller and regulator, four 6V/ 460AMP batteries, solar panels rack, 2KW to 24V solar inverter, programming, cabling and materials. The installation of the system includes an electrical transfer switch connection. The structure is used and will be used for the storage of the purchased supplies materials

Project Location:

The approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/@18.1354714,-65.84973263632456,14z>



Counties: Humacao County, Puerto Rico

ENDANGERED SPECIES ACT SPECIES

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

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

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA 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.

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/VUL5HLD3O5EI3LR7W4PN5ERMZ4/documents/generated/7159.pdf	Endangered

AMPHIBIANS

NAME	STATUS
Guajon <i>Eleutherodactylus cooki</i> There is final critical habitat for this species. Your location does not overlap the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/6963 General project design guidelines: https://ipac.ecosphere.fws.gov/project/VUL5HLD3O5EI3LR7W4PN5ERMZ4/documents/generated/7136.pdf	Threatened

CRITICAL HABITATS

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

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

USFWS NATIONAL WILDLIFE REFUGE LANDS AND FISH HATCHERIES

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

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

BALD & GOLDEN EAGLES

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

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

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

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

MIGRATORY BIRDS

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

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

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

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

WETLANDS

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

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

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

THERE ARE NO WETLANDS WITHIN YOUR PROJECT AREA.

IPAC USER CONTACT INFORMATION

Agency: Tetra Tech
Name: Shelby McDowell
Address: 2301 Lucien Way #120
City: Maitland
State: FL
Zip: 32751
Email: shelby.mcdowell@tetrattech.com
Phone: 4096591563

LEAD AGENCY CONTACT INFORMATION

Lead Agency: Department of Housing and Urban Development

The scope of work 2 (SOW-2) includes the purchase and installation of a solar power system to be located on top of the storage building located at coordinates 18.1355007, -65.8497743. The proposed system is a 2 kilos system that consists of Six (6) 360 solar panels, solar charge controller and regulator, four 6V/460AMP batteries, solar panels rack, 2K to 24V solar inverter, programming, cabling and materials. The installation of the system includes an electrical transfer switch connection. The structure is used and will be used for the storage of the purchased supplies materials

Based on your answers and the assistance of the Service's Caribbean DKey, you determined the proposed Action will have "No Effect" on the following species:

Species	Listing Status	Determination
Guajon (<i>Eleutherodactylus cooki</i>)	Threatened	No effect
Puerto Rican Boa (<i>Chilabothrus inornatus</i>)	Endangered	No effect

Thank you for informing the Service of your "No Effect" determination(s) for this project. No further consultation/coordination for this project is required for these species. However, be aware that reinitiation of consultation may be necessary if later modifications are made to the project so that it no longer meets the criteria or outcome described above, or if new information reveals effects of the action that could affect listed species or critical habitat in a manner or to an extent not previously considered, or if a new species is listed.

This letter serves as documentation of your consideration of the federally listed species as required under section 7 of the ESA. However, effects to the other federally listed species or critical habitat as listed below from the "IPaC print-out for the project" (see below) should be considered as part of your ESA review for the project.

The Service will notify you within 30 calendar days if we determine that this proposed Action does not meet the criteria for a "No Effect" (NE) determination for Federally listed species in the Caribbean. If we do not notify you within that timeframe, you may proceed with the Action under the terms of the NE concurrence provided here. This verification period allows the Caribbean Ecological Services Field Office to apply local knowledge to evaluate the Action, as we may identify a small subset of actions having unanticipated impacts. In such instances, the Caribbean Ecological Services Field Office may request additional information to verify the effects determination reached through the DKey.

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

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

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

Action Description

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

1. Name

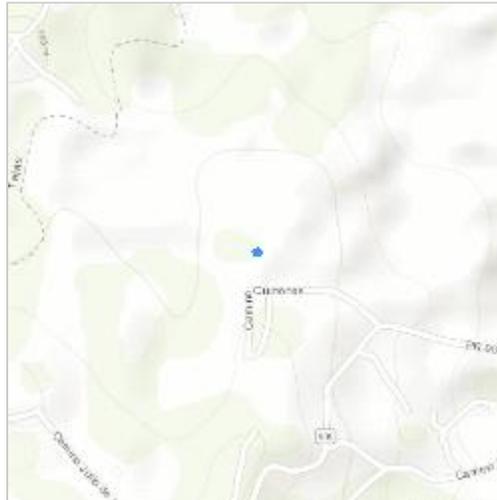
PR-RGRW-04203 SOW 2

2. Description

The following description was provided for the project 'PR-RGRW-04203 SOW 2':

The scope of work 2 (SOW-2) includes the purchase and installation of a solar power system to be located on top of the storage building located at coordinates 18.1355007, -65.8497743. The proposed system is a 2 kilowatt system that consists of Six (6) 360 solar panels, solar charge controller and regulator, four 6V/460AMP batteries, solar panels rack, 2K to 24V solar inverter, programming, cabling and materials. The installation of the system includes an electrical transfer switch connection. The structure is used and will be used for the storage of the purchased supplies materials

The approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/@18.1354714,-65.84973263632456,14z>



QUALIFICATION INTERVIEW

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

No

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

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

No

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

No

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

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

Yes

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

Automatically answered

Yes

6. Does the proposed project intersect the Coquí Guajón area of influence?

Automatically answered

Yes

IPAC USER CONTACT INFORMATION

Agency: Tetra Tech
Name: Shelby McDowell
Address: 2301 Lucien Way #120
City: Maitland
State: FL
Zip: 32751
Email: shelby.mcdowell@tetrattech.com
Phone: 4096591563

LEAD AGENCY CONTACT INFORMATION

Lead Agency: Department of Housing and Urban Development

Appendix D: Site Photos

Front of Structure

Photo Direction: Northeast



Facing Away From Front

Photo Direction: Southwest



Side #1 of Structure

Photo Direction: East



Facing Away From Side #1

Photo Direction: West



Back of Structure

Photo Direction: South



Facing Away From Back

Photo Direction: North



Side #2 of Structure

Photo Direction: North



Facing Away From Side #2

Photo Direction: South



Streetscape #1

Photo Direction: South



Streetscape #2

Photo Direction: Northeast



Address

Photo Direction: North



Outbuildings

Photo Description: Storage building

Photo Direction: East



Structural Details

Photo Description: Architectural details

Photo Direction: Southeast



Structural Details

Photo Description: Architectural details

Photo Direction: North



Structural Details

Photo Description: Architectural details

Photo Direction: Northwest



Structural Details

Photo Description: Architectural details

Photo Direction: West



Structural Details

Photo Description: Architectural details

Photo Direction: West



Structural Details

Photo Description: Architectural details

Photo Direction: Northeast



Structural Details

Photo Description: Architectural details

Photo Direction: North



Structural Details

Photo Description: Architectural details

Photo Direction: West



Structural Details

Photo Description: Architectural details

Photo Direction: Southwest



Structural Details

Photo Description: Architectural details

Photo Direction: Northwest



Structural Details

Photo Description: Architectural details

Photo Direction: Northwest



Structural Details

Photo Description: Architectural details

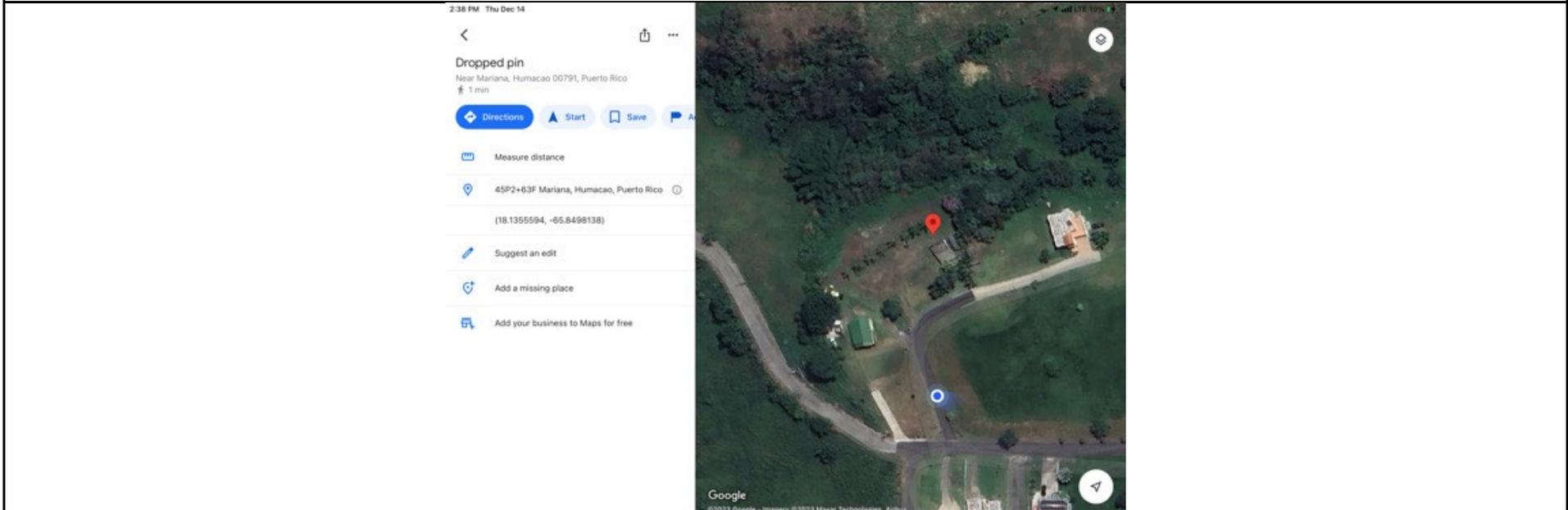
Photo Direction: North



Structural Details

Photo Description: Architectural details

Photo Direction: North



Scope Of Work

Photo Description: Scope of work 1 Installation of a Greenhouse

Photo Direction: Northeast



Scope Of Work

Photo Description: Scope of work 1 Installation of a Greenhouse

Photo Direction: East



Scope Of Work

Photo Description: Scope of work 1 Installation of a Greenhouse

Photo Direction: Southwest



Scope Of Work

Photo Description: Scope of work 1 Installation of a Greenhouse

Photo Direction: West



Scope Of Work

Photo Description: Scope of work 2 Purchase and installation of Solar Panels System

Photo Direction: Northeast



Scope Of Work

Photo Description: Scope of work 2 Purchase and installation of Solar Panels System

Photo Direction: East



Scope Of Work

Photo Description: Scope of work 2 Purchase and installation of Solar Panels System

Photo Direction: South



Scope Of Work

Photo Description: Scope of work 2 Purchase and installation of Solar Panels System

Photo Direction: North

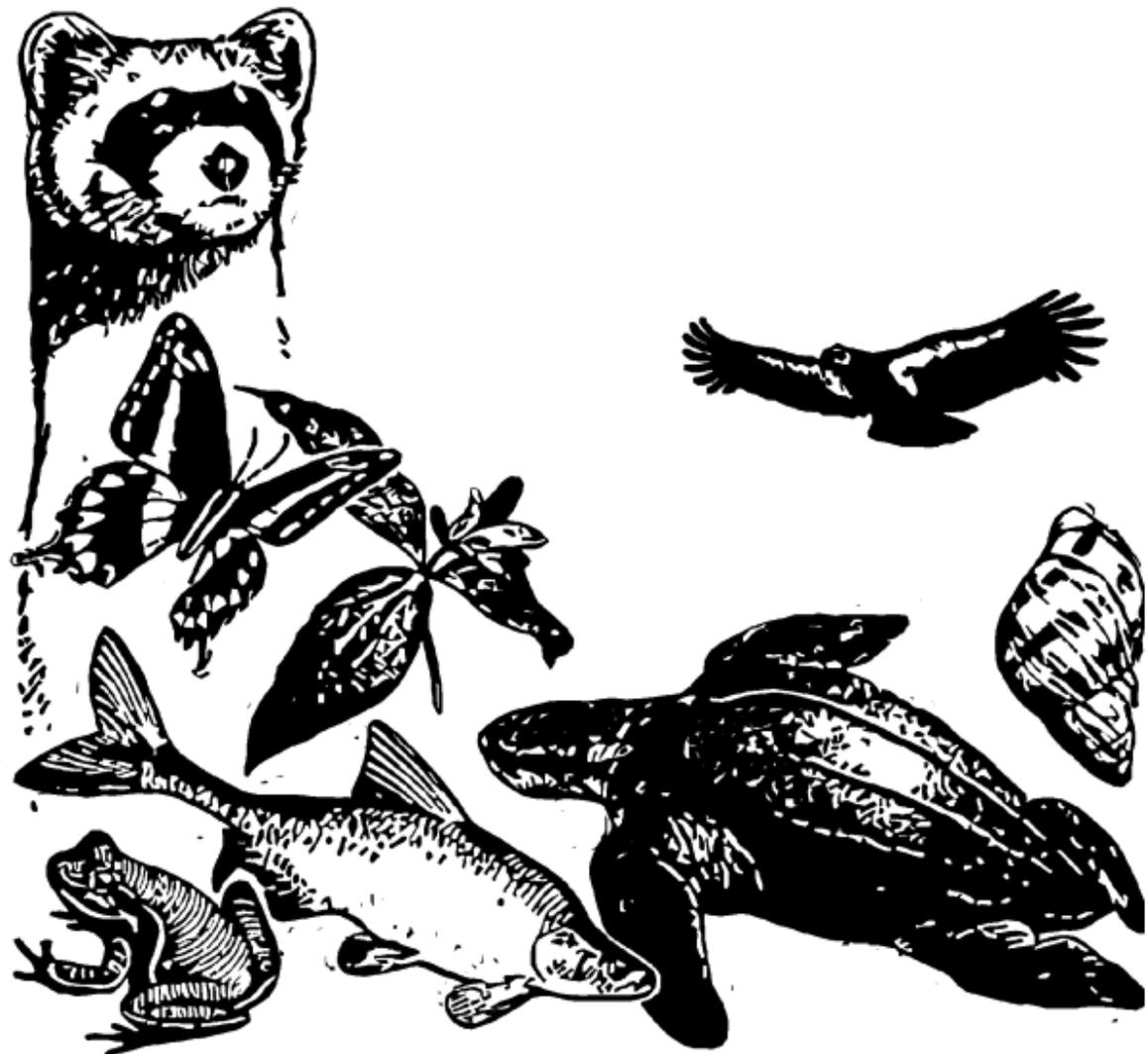


Appendix E:
USFWS Puerto Rican Boa Conservation Measures 2024

Caribbean ES Puerto Rican Boa

Puerto Rican Boa

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



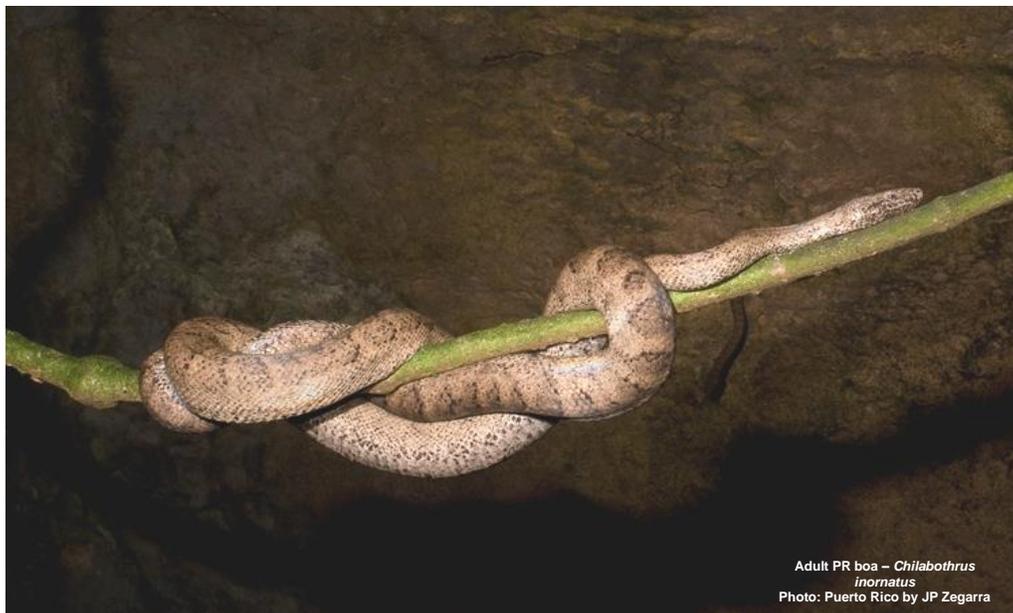


U.S. FISH AND WILDLIFE SERVICE CARIBBEAN ECOLOGICAL SERVICES FIELD OFFICE

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

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

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



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

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

Conservation Measures:

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

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

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

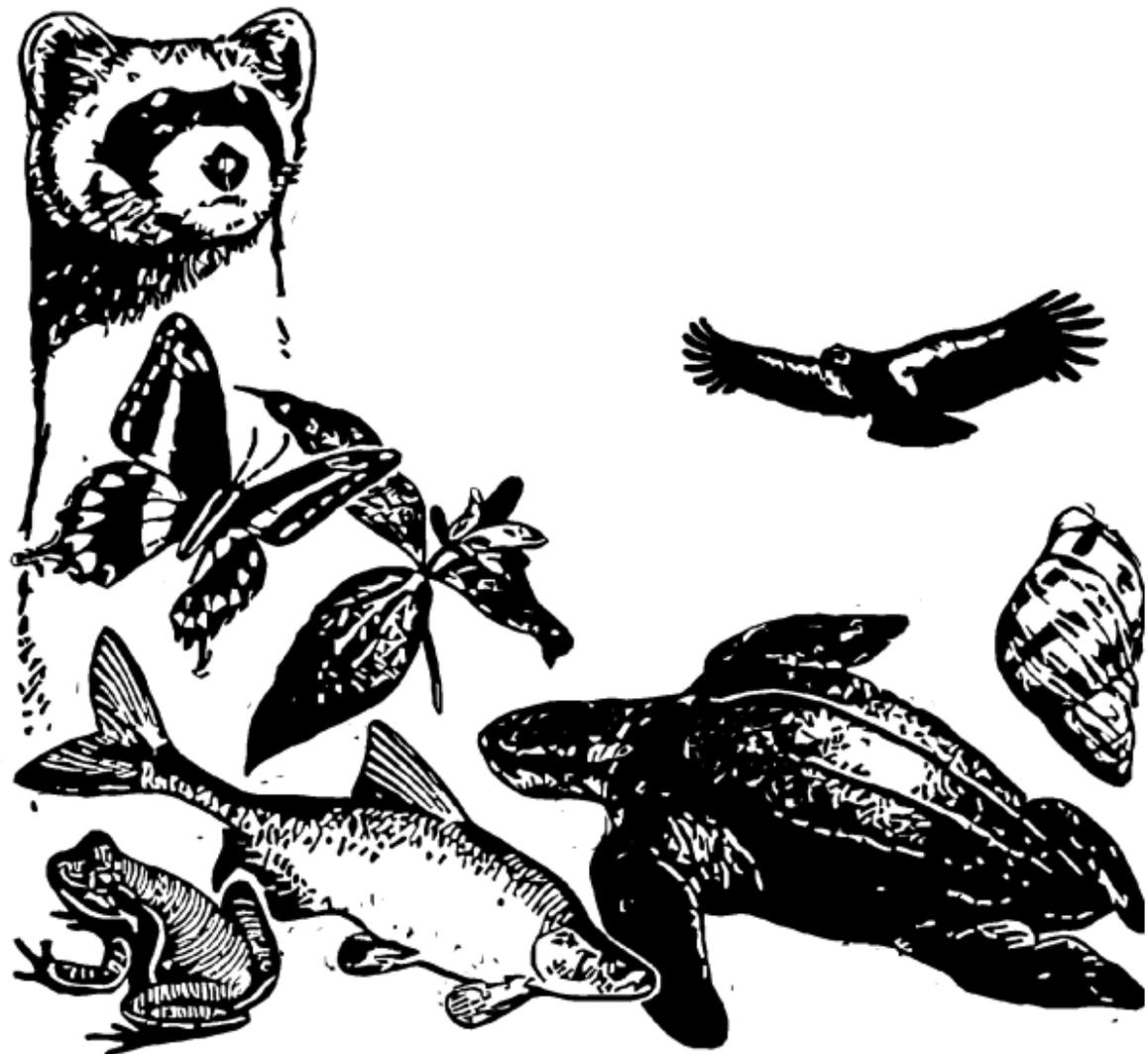
- José Cruz-Burgos, Endangered Species Program Coordinator
 - Email: jose_cruz-burgos@fws.gov
 - Office phone (305) 304-1386
- Jan Zegarra, Fish and Wildlife Biologist
 - Email: jan_zegarra@fws.gov
 - Office phone (786) 933-1451

Appendix F:
USFWS Guajón Conservation Measures 2023

Caribbean ES Coqui Guajon Project Guidelines

Guajon

Generated August 01, 2024 01:24 PM UTC, IPaC v6.112.0-rc2



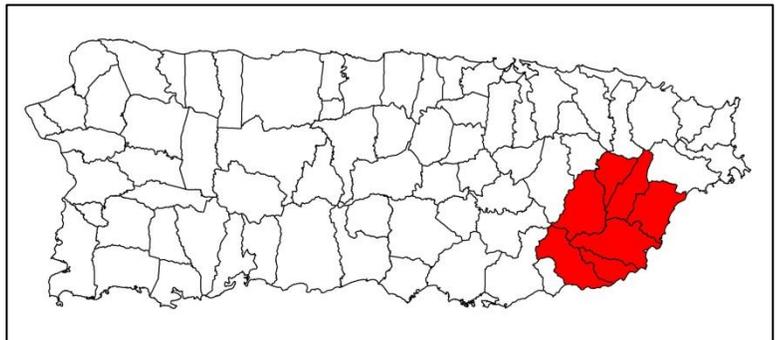


U.S. FISH AND WILDLIFE SERVICE CARIBBEAN ECOLOGICAL SERVICES FIELD OFFICE

Conservation Measures for the Coquí Guajón (*Eleutherodactylus cooki*)

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 Coquí guajón destroy its eggs, and/or modify its critical habitat is subject to penalties under Federal law. If federal funds or permits are needed, the funding or permitting agency shall 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. Download the [project evaluations fact sheet](#) to learn more about the requirements or visit our [project evaluations webpage](#).

The coquí guajón is a relatively large species within the coqui frog family, reaching approximately 3 inches in length with females being larger than males. The species is considered mostly nocturnal, but can also be heard calling during daylight hours and late afternoon. This coquí was federally listed as threatened in 1997 and is only known to occur in southeastern Puerto Rico in the Municipalities of Yabucoa, San Lorenzo, Patillas, Humacao, Las Piedras, Juncos, and Maunabo (shaded area in map below). You may find more information on this species including a recording of its call here: <http://www.proyectocoqui.com/portfolio/coqui-guajon/#.XHginIW6PIV>, and educational materials including a printable poster here: <https://www.coquiguajon.org/materiales-educativos>.



The coquí guajón utilizes large to small caves and crevices formed by different sized granite boulders within rocky streams. This type of habitat is commonly known as *guajonal*. The species also has been detected using road culverts and adjacent to Puerto Rico's sewer and aqueduct water

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facilities. Projects that occur upstream or upland where the species occurs may also impact its habitat further downstream.

Critical habitat has been designated in each of the municipalities mentioned above, all within private lands. The enclosed link describes and illustrates all of the 17 designated critical habitats for this species: <https://www.govinfo.gov/content/pkg/FR-2006-10-05/pdf/06-8482.pdf>. You may also download spatial data for these critical habitats by searching here: <https://ecos.fws.gov/ecp/report/table/critical-habitat.html>.

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

Conservation Measures:

1. Confirm the presence/absence of the species at the project site. The most effective way to do this is to identify the guajon's call during the late afternoon or night. You may contact the Service for recommendations on how and when to do this.
2. Inform all project personnel about the potential presence of the coquí guajón 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 this species. An educational poster or sign with photo or illustration of the species should be displayed at the project site.
3. Proposed activities should avoid adversely affecting any of the 17 critical habitat units or any other occupied guajón habitat.
4. Be advised that the designated critical habitat is not the entire range of the species; the species can be found in any boulder type habitat in streams, ravines or drainages within the above referenced Municipalities. If the species is detected outside of the designated critical habitat areas, it is still protected under the Endangered Species Act.
5. Prior to any construction activity, including removal of vegetation and earth movement, the boundaries of the project area, the buffer zones, and areas to be excluded and protected should be clearly marked in the project plan and in the field.
6. It is important to implement proper erosion and sedimentation control measures when working within or adjacent to coqui guajón habitat. Sediment runoff can adversely impact the species and its habitat by filling the caves and crevices where the species occurs and uses to lay its eggs. As water is a very important component of the species' habitat, any stream, creek, or similar body of water with the habitat characteristics indicated above may harbor the species, hence it should be protected to the maximum extent possible.
7. Areas that can be impacted by construction or any other activity would potentially require the relocation of frogs and consultation with the Service for such action is required. If

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relocation is proposed, a capture and relocation protocol should be developed and sent to the Service for evaluation before the project starts. Capture and relocation of frogs should be conducted only by qualified personnel avoiding harming, injury or killing individuals.

8. A before and after photographic record of the project area should be established. In addition, a record of all coquí guajón detections, including date, time, location, and approximate number of individuals should be established.
9. Projects must comply with all State laws and regulations. Also, contact PRDNER for further guidance.

If you have any questions regarding the comments above, please contact the Service Monday to Friday 8:00 am – 4:30 pm

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

Guidance for Repair, Replacement, and Clean-up of structures in Streams and Waterways of Puerto Rico and US Virgin Islands

In Puerto Rico (PR) and US Virgin Islands (USVI), flooding caused by heavy rainfall events, tropical storms, and hurricanes can damage stream crossings (bridges, culverts, low-water crossings, etc.) and in-stream structures (piers, docks, etc.), and create debris jams. Many streams in PR and USVI support an array of aquatic species, including anadromous and catadromous native fish and a suite of native shrimp. Repair and clean-up activities in streams have the potential to adversely affect these species and their habitat, causing sedimentation in areas downstream of the project and disruption of sediment transport leading to channel instability.

This guidance applies to repair, replacement, and clean-up projects related to storm damage or natural processes. The guidance applies to creeks, rivers, and tidally-influenced waters in PR and USVI. All projects in aquatic habitats should be considered with the following conditions below.

General Guidance for Road Crossing Structures

Road-Stream Crossing Removal and Associated Channel Restoration

If a temporary crossing structure will be removed, the affected area should be restored to a natural state. Following structure removal, the stream channel should be reconstructed to match natural bankfull (i.e., channel shape from effective discharge or channel forming discharge [Figure 1]) width, channel slope and active floodplain dimensions, which exist upstream and downstream of the structure being removed. This activity should occur to restore physical and biological aquatic habitat connectivity, most notably, passage for aquatic and terrestrial organisms.

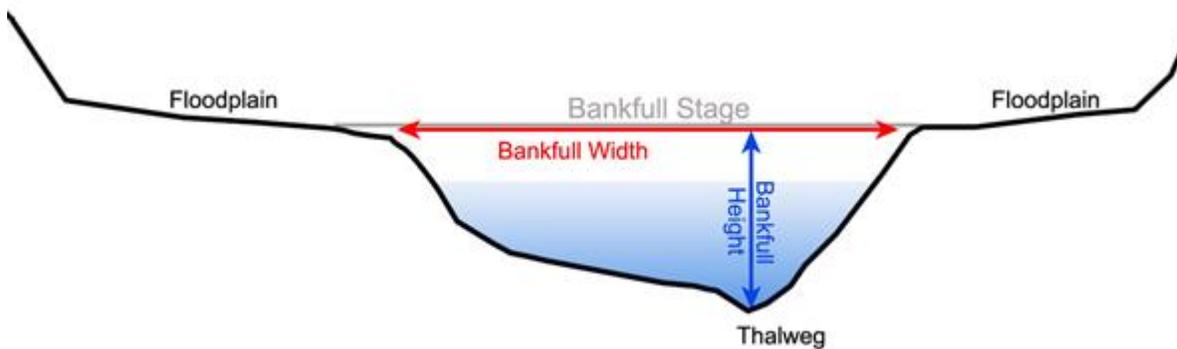


Figure 1. Bankfull Cross Section.

Road-Stream Crossing Replacement Structure

Replacement with a culvert or open-bottomed structure. Culvert refers to a variety of closed-bottomed metal and concrete structures. Open-bottomed structures include arches, three-sided boxes and bridges. Structure widths should be at least 1.2 times bankfull width with stable bank rocks on both sides. Structures should be constructed in a manner that accommodates 100-year flows, (Figures 2 and 3) and allows for natural stream processes including sediment and woody debris transport to the greatest degree possible given the structure dimensions. Flood relief culverts (Figure 4) on unconfined floodplains may be used. Crossings with large unconfined floodplains may require additional capacity or may include floodplain relief structures.

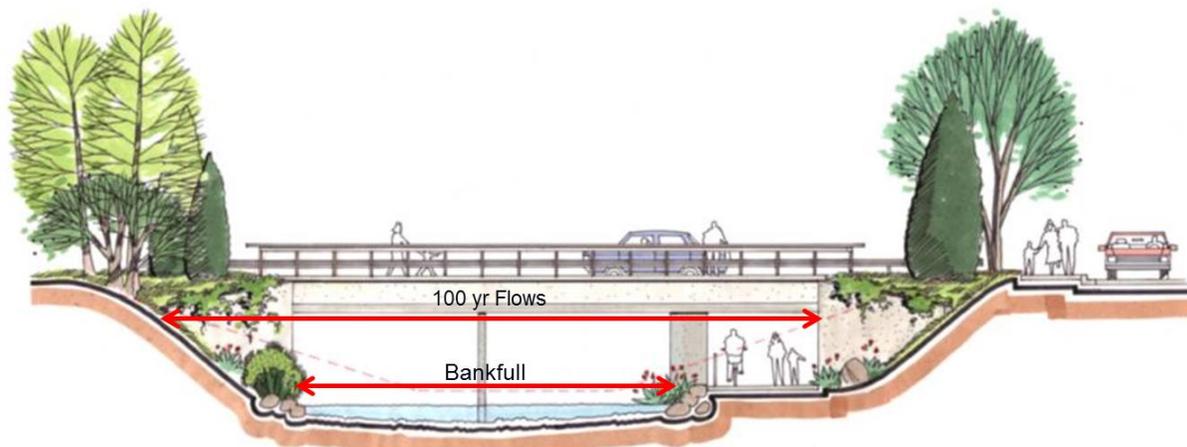


Figure 2. 100 yr Flow Design.



Figure 3. Bridge with Floodplain and Height Capacity for 100 yr Flows.



Figure 4. Bankfull Channel Culvert with Flood Relief Culverts at Floodplain Elevation.

Design Criteria

Stream crossing designs are intended to replicate the natural stream processes within and immediately adjacent to a culvert or opened-bottom structure. Aquatic organism passage, sediment transport and flood and wood conveyance within the structure are intended to imitate the stream conditions upstream and downstream of the crossing, as close to natural conditions as the structure type allows (Figures 5 and 6). Culverts and open-bottomed structures, when properly sized and designed, can accomplish these natural stream processes. Culverts should be partially filled with

material that simulates the natural streambed. Open-bottomed structures should contain substrate that matches the natural stream channel.



Figure 5. Poor design has resulted in scour and degradation below culvert and obstruction to fish passage.



Figure 6. Bankfull Bottomless Arch Culvert with Floodplain Relief Drain.

Implementation of a replacement project requires a high level of information and site-specific data regarding stream hydrology and geomorphology, as well as engineering and construction expertise. Project design criteria include several components as described below.

Structure Width

The width of structures (at bankfull or top of bank elevation) should be equal to or greater than 1.2 times bankfull channel width. A single structure span of the width is preferred but multiple culverts are allowed, and should be accompanied with flood relief drains. The minimum structure width of a culvert should be five feet to allow placement of substrate material. The width of the structures within the vertical adjustment potential should be equal to or greater than 1.2 times bankfull channel width. No piers, footers, piles, or abutments should be within 1.2 times bankfull width, unless there are constraints in placement and design criteria which then should allow for a minimum amount of structures.

Structure Alignment

The structure should achieve optimal orientation relative to both the road and stream channel. Replacement structures are sometimes shifted to achieve better alignment with the natural stream channel pattern at the crossing location. Skew angle should be in line with stream channel orientation.

Structure Capacity

The structure should accommodate a 100-year flood flow without significant change in substrate size and composition. To meet this requirement, unconstrained channel types may require structures wider than 1.2 times bankfull or additional flood relief structures. The headwater depth to structure height ratio should not exceed 0.8:1 for 100-year flows in order to allow for additional vertical clearance for woody debris and sediment transport.

Channel Slope

The culvert structure slope should match an appropriate reference reach of the natural stream (assessed at a minimum of approximately 20-30 times the channel width upstream and 20-30 times the channel width downstream of the site, though a suitable reference reach could be located further upstream or downstream). The maximum slope should not exceed 3.5 percent because of difficulties in retaining substrate within the structure at higher gradients, increasing both costs and design complexity. Bridges do not have a maximum slope range.

Embedment

If a culvert is used, the bottom of the culvert should be buried into the streambed not less than 20 percent of the culvert height.

Elevation

For open-bottomed structures, the footings or foundation should be designed to be stable for the maximum scour depth. The structure should also provide a low flow channel.

Substrate

Material in structures should match the natural stream channel. Bed materials should match natural stream bed mobility characteristics. Bank and other key bed structural elements (e.g. steps, weirs, ribs, etc.) should be stable at the 100-year flow.

Geotechnical analysis

Structure design and construction methods may be influenced by soil composition and subsurface conditions including, but not limited to, the presence of bedrock and clay. The need for geotechnical analysis is determined on a project-specific basis and is not always necessary.

These recommendations promote the use of the U.S. Forest Service's Stream Simulation approach for designing road-stream crossings, an approach which our agencies have successfully used on previous projects to support recovery of anadromous and catadromous fishes by restoring stream habitat.

Specific Conditions for Road-Stream Crossings:

A. Bridge and Culvert Repair, Replacement, or Upgrade to a Higher Preference Order

All bridge and culvert projects should follow the guidelines below and the General Conditions in D. General design drawings and recommendations are shown in Appendix A. Stream crossing structures are listed in order of preference from 1 (most preferred) to 4 (least preferred). Bridges that fully span the stream and have no in-stream pilings are preferred over other crossing types and should be used whenever possible as they minimize impacts to listed species and critical habitat, and reduce the need for future repairs.

Order of Preference	Structure	Project Description	Conditions
N/A	Bridge	Repair/ reinforcement	Follow the General Conditions listed in D. below.
		Repair/reinforcement with new rip rap	<i>Placement of new rip rap in-stream should be consulted on with the Service on a case-by-case basis for specific recommendations.</i>
1	Bridge – no in-stream pilings	Replacement or upgrade	1) Remove all remnants of the damaged structure from the stream channel and dispose of in an off-site disposal area. 2) Follow the General Conditions listed in D. below.
2	Bridge – with in-stream pilings	Replacement or upgrade	<i>All bridge replacements and upgrades that require in-stream supports should be consulted on with the Service on a case- by-case basis for specific recommendations.</i>
3	Culvert – bottomless	Replacement or upgrade	1) Culvert width should be 1.2 times bankfull width. 2) Multiple culverts are needed when the maximum culvert width available is reached, but bankfull width has not been reached. 3) Culvert slope should match channel grade. 4) It is recommended that floodplain relief drains be installed in road approaches.
4	Culvert – box, elliptical or round (in order of preference for minimization of impacts)	Replacement	1) Culvert width should be 1.2 times bankfull width. 2) Culvert should be counter sunk below substrate to a depth of 20% of the culvert diameter (round) or rise (elliptical, box). 3) Multiple culverts are needed when the maximum culvert width available is reached, but bankfull width has not been reached. 4) Culvert slope should match channel grade. 5) It is recommended that floodplain relief drains be installed in road approaches.

B. Demolition and Removal of Damaged Structures

- Conduct activities in a manner that minimizes disturbance to the stream bottom and banks.
- The structure should be lifted or floated out of the stream, not dragged on the bottom.
- Wooden pilings should be cut or pinched off at the substrate level.

- Remove all remnants of the damaged structure from the stream channel and dispose of in an off-site disposal area.
- In addition, follow the General Conditions listed in D. below.

C. Debris Removal

- When feasible and safe, natural woody debris should remain in the stream.
- Conduct activities in a manner that minimizes disturbance to the stream bottom and banks.
- Debris should be lifted or floated out of the stream, not dragged on the bottom.
- In addition, follow the General Conditions listed in D. below.

D. General Conditions for all Projects

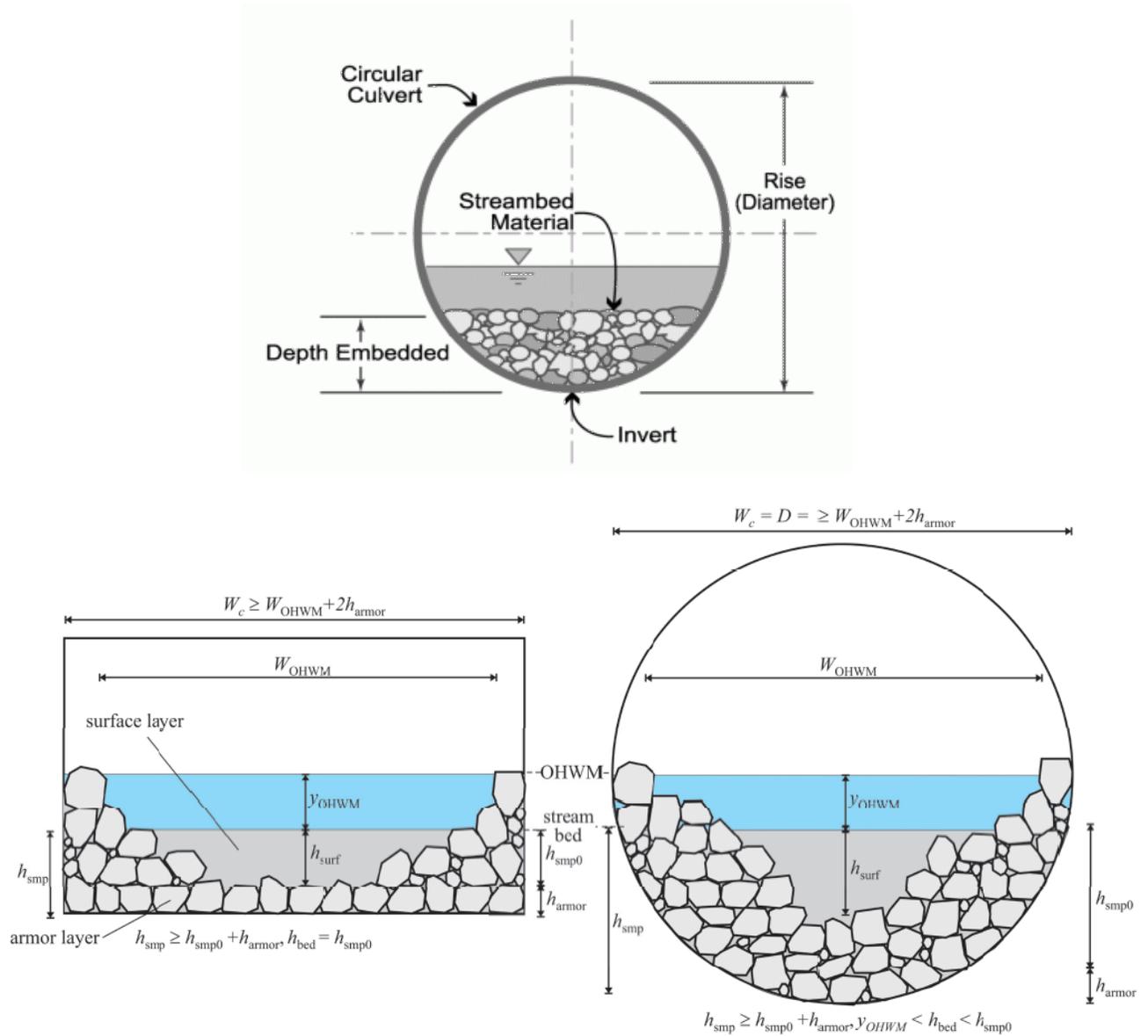
1. Keep in-stream work to a minimum.
2. Conduct work activities from atop a stable streambank or reinforced platform, when feasible, and in a manner that does not degrade or destabilize the streambank.
3. Install erosion and sediment control devices before any work is performed, and closely monitor and maintain for the life of the construction project. Implement the appropriate best management practices for preventing and minimizing erosion and sediment outlined in the following manuals: *Florida Stormwater, Erosion, and Sediment Control Inspector's Manual* (July 2008), and *State of Florida Erosion and Sediment Control Designer and Reviewer Manual* (July 2007).
4. Keep land clearing to the minimum level necessary for project completion. Stream bank vegetation should be left intact to the extent practicable. Cutting vegetation is preferred to root grubbing near streams.
5. Cover disturbed areas with erosion controls mats and revegetated promptly with native grasses.
6. Locate debris collection sites, borrow sites, fill dirt stockpiles, and equipment staging areas at least 200 feet from stream channels to minimize the potential of sediments and contaminants entering the waterway.

E. Low Water Crossings-Fords

1. All recommendations for Low Water Crossings-Fords can be found in the U.S. Forest Service Publications Number 0625 1808—SDTDC Titled “Low-Water Crossings: Geomorphic, Biological, and Engineering Design Considerations”.

Contact Information: Caribbean Ecological Services Field Office
Marelisa Rivera
U.S. Fish and Wildlife Service
P.O. Box 491
Carr 301, Bo Corozo
Boqueron, Puerto Rico 00622
Phone: (787) 851-7297 x 206
<https://www.fws.gov/caribbean/>

Appendix A General Design Drawings for Fish Passage Structures



APPENDIX E

Section 106 Consultation

ENVIRONMENTAL MEMORANDUM

Date: 4/30/2024

To: Environmental Review Record (ERR) File

Subject: Explanation of Conflicting Information within the ERR

Applicant Name: Finca Rosalene LLC

Application Number: PR-RGRW-04203

This memorandum serves to provide an explanation as to the presence of conflicting pieces of information within the Environmental Review Record (ERR) file.

Confliction Information: Coordinates Address Municipio Parcel ID/Cadaster Number
 Construction Date Applicant Name Other

Location(s) of Section 106 NHPA Effect Determination
Conflicting Information:

Explanation: The Project Location Address in the Section 106 NHPA Effect Determination is:
Carr 909 K.M. HM. 2.4, Bo Mariana, Humacao, PR, 00791

The correct Project Location Address is: Bo Mariana Carr 909 K.M. HM. 2.4,
Humacao, PR 00792

Total Parcel Area is 7.5 acres and the APE area is 0.13 acres.



GOVERNMENT OF PUERTO RICO

STATE HISTORIC PRESERVATION OFFICE

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

Monday, March 25, 2024

Lauren B Poche

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

SHPO-CF-03-18-24-09 PR-RGRW-04203 (Humacao), Finca Rosalene LLC

Ms. Poche,

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

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

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

Sincerely,

Carlos A. Rubio Cancela

State Historic Preservation Officer

CARC/GMO/OJR



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

March 18, 2024

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

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

Section 106 NHPA Effect Determination Submittal: PR-RGRW-04203 – Finca Rosalene LLC – Carr 909 K.M. HM. 2.4, Bo Mariana, Humacao, Puerto Rico – *No Historic Properties Affected*

Dear Architect Rubio Cancela,

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

On behalf of PRDOH and the subrecipient, the Puerto Rico Department of Agriculture, HORNE is submitting documentation for activities proposed by Finca Rosalene LLC located at Bo Mariana Carr 909 K.M. HM. 2.4, in the municipality of Humacao. The undertaking for this project includes the purchase and installation of a new greenhouse, installation of a new solar power system on the roof of an existing building, and the installation of new below ground water line. The proposed greenhouse is a 30-foot (ft) x 96 ft galvanized metal structure with plastic and Saran cover that includes the irrigation system. The project also includes the purchase and installation of a solar power system to be located on top of an existing storage building. The proposed system is a 2 kilos system that consists of Six (6) 360 solar panels, solar charge controller and regulator, four 6V/ 460AMP batteries, solar panels rack, 2K to 24V solar inverter, programming, cabling, and will require a new transfer switch. Water

service will be extended from the main property PRASA connection to the greenhouse through an underground 100 linear feet, 3/4" diameter PVC piping system to provide water to the greenhouse hydroponic system.

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

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

Kindest regards,



Lauren Bair Poche, M.A.

Architectural Historian, EHP Senior Manager
LBP/JLE

Attachments

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM		
ReGROW PUERTO RICO PROGRAM		
Section 106 NHPA Effect Determination		
Subrecipient: Finca Rosalene LLC		
Case ID: PR-RGRW-04203	City: Humacao	

Project Location: Carr 909 K.M. HM. 2.4, Bo Mariana, Humacao, PR, 00791	
Project Coordinates: 18.135553, -65.849834	
TPID (Número de Catastro): 304-054-742-54	
Type of Undertaking: <input type="checkbox"/> Substantial Repair <input checked="" type="checkbox"/> New Construction	
Construction Date (AH est.): c2015	Property Size (acres): 0.13 acres

SOI-Qualified Architect/Architectural Historian: Maria F. Lopez Schmid
Date Reviewed: 1/16/2024
SOI-Qualified Archaeologist: Pollyanna Clark, MA, RPA
Date Reviewed: 1/22/2024

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

Project Description (Undertaking)

The proposed intent of use of grant funds includes the purchase and installation of a new greenhouse, installation of a solar power system on the roof of an existing building; in addition, the applicant will install a new below ground waterline to service the new greenhouse using private funding. This land has been used in the past for cattle pasture and is currently segregated and used for sheep, cattle, and chicken pasture and as a diverse cropping area. The field has not been graded.

The scope of work 1 (SOW-1) is the purchase and installation of a greenhouse at coordinates 18.1355539, -65.8498349. The proposed greenhouse is a 30-foot (ft) x 96 ft galvanized metal structure with plastic and Saran cover that includes the irrigation system for the hydroponic growing of the lettuce and coriander seeds to be purchased. The poles of the metal structure will be tubes 1 ½ inches (") x10 ft with welded anchors at the beginning and end of each ship and to its base with an underground depth of 2' deep.

The scope of work 2 (SOW-2) includes the purchase and installation of a solar power system to be located on top of the storage building located at coordinates 18.1355007, -65.8497743. The proposed system is a 2 kilos system that consists of Six (6) 360 solar panels, solar charge controller and regulator, four 6V/ 460AMP batteries, solar panels rack, 2K to 24V solar inverter,

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM REGROW PUERTO RICO PROGRAM Section 106 NHPA Effect Determination	 <small>GOVERNMENT OF PUERTO RICO DEPARTMENT OF HOUSING</small>
Subrecipient: Finca Rosalene LLC	
Case ID: PR-RGRW-04203	City: Humacao

programming, cabling and materials. The installation of the system includes an electrical transfer switch connection. Power generated from the solar system will be used to provide electricity to the greenhouse and the storage area.

In addition, water service will be extended from the main property PRASA connection to the greenhouse through an underground 100 linear feet, 3/4" diameter PVC piping system to provide water to the greenhouse hydroponic system. While the applicant plans to pay for this activity themselves and no HUD funds would be utilized for this portion of work, the potential impacts from this action are included in the analyses below and it is contained within the delimited Area of Potential Effect (APE). The visual APE is the viewshed of the proposed project. The proposed project APE total area is approximately 0.13 acres.

Area of Potential Effects

As defined in 36 CFR §800.16(d), the area of potential effects (APE) is the geographic area or areas within which an undertaking may directly or indirectly cause changes in the character or use of historic properties if any such properties exist. Based on this definition and the nature and scope of the Undertaking, the Program has determined that the direct APE for this project is the proposed 30 ft by 96 ft greenhouse at coordinates 18.1355539, -65.8498349, as well as a proposed solar power system to be located on top of the storage building located at coordinates 18.1355007, -65.8497743. The APE has been extended from a connection point located at the applicant residence, to the east of the proposed greenhouse location, for an estimated distance of 100 linear feet. This APE is constrained to the east by the applicant residence and to the west by the greenhouse location. 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. Secretary of the Interior's Professional Qualification Standards (36 CFR Part 61) tion Specialist meeting the Secretary of the Interior's Professional Qualification Standards (36 CFR Part 61), shows that the project area has no previously identified archaeological sites nor previous archaeological surveys within a 0.25-mile radius of the APE.

The project area is on PaE2: Pandura loam, 12 to 40 percent slopes, eroded. Given the ~40 percent slope of the project area, and the eroded, Pandura loam (PaE2) soils makes the probability of finding *in situ*, significant and undisturbed archaeological resources is low. The

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM REGROW PUERTO RICO PROGRAM Section 106 NHPA Effect Determination	
Subrecipient: Finca Rosalene LLC	
Case ID: PR-RGRW-04203	City: Humacao

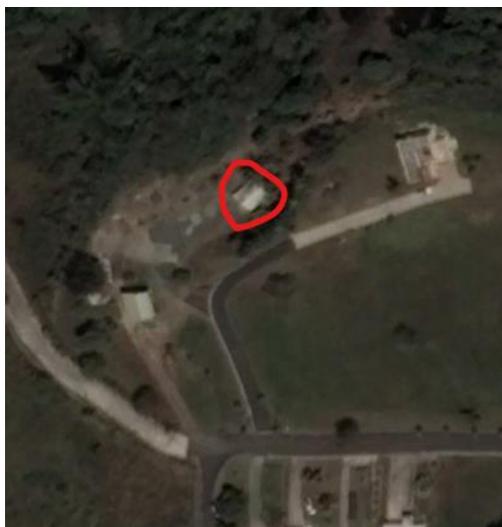
closest freshwater body (Quebrada Mariana) is approximately 0.25 mi (0.40 km) of the project area.

Identification of Historic Properties - Architecture

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

The proposed project is in a rural residential area surrounded by farmlands and vegetation. The property lies north of PR-909 in Humacao which runs east to west in this area. There are crops and vegetation behind the buildings that are close along the road.

The proposed solar system will be installed on the roof of a building constructed circa 2015. The building, shown below, appears in a 2015 aerial image, but not in a 2012 one. The one-story concrete building is used for storage and has a slab on grade foundation, concrete walls, and a flat concrete roof. The front elevation has two large openings and only the left side is enclosed with wood double doors. The right-side opening has no doors, and the windows are metal jalousie type.



Figures 1 & 2. Detail of 2015 aerial image indicating the location of the building on the property and an oblique view to the north.

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM REGROW PUERTO RICO PROGRAM Section 106 NHPA Effect Determination	 GOVERNMENT OF PUERTO RICO DEPARTMENT OF HOUSING
Subrecipient: Finca Rosalene LLC	
Case ID: PR-RGRW-04203	City: Humacao

This building is modern, and it **does not** meet the requirements to be eligible for listing on the National Register of Historic Places.

Determination

The following historic properties have been identified within the APE:

- Direct Effect:
 - N/A
- Indirect Effect:
 - N/A

Based on the results of our historic property identification efforts, the Program has determined that no previously identified historic properties are located within or adjacent to the proposed project Area of Potential Effect. As detailed in the Area of Potential Effect: the SOI qualified environmental professionals found no previously identified archaeological sites nor archaeological surveys performed within a 0.25-mile radius of the project area.

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-04203 is located. The closest freshwater body (Quebrada Mariana) is approximately 0.25 mi (0.40 km) of the project area. Given the ~40 percent slope of the project area, and the eroded, Pandura loam (PaE2) soils makes the probability of finding *in situ*, significant and undisturbed archaeological resources being present within or near the APE is low.

The construction of public roads and residential structures/agricultural infrastructure has minimally impacted the surrounding terrain. Therefore, no historic properties will be affected by the proposed project activities.

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM REGROW PUERTO RICO PROGRAM Section 106 NHPA Effect Determination	 GOVERNMENT OF PUERTO RICO DEPARTMENT OF HOUSING
Subrecipient: Finca Rosalene LLC	
Case ID: PR-RGRW-04203	City: Humacao

Recommendation

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

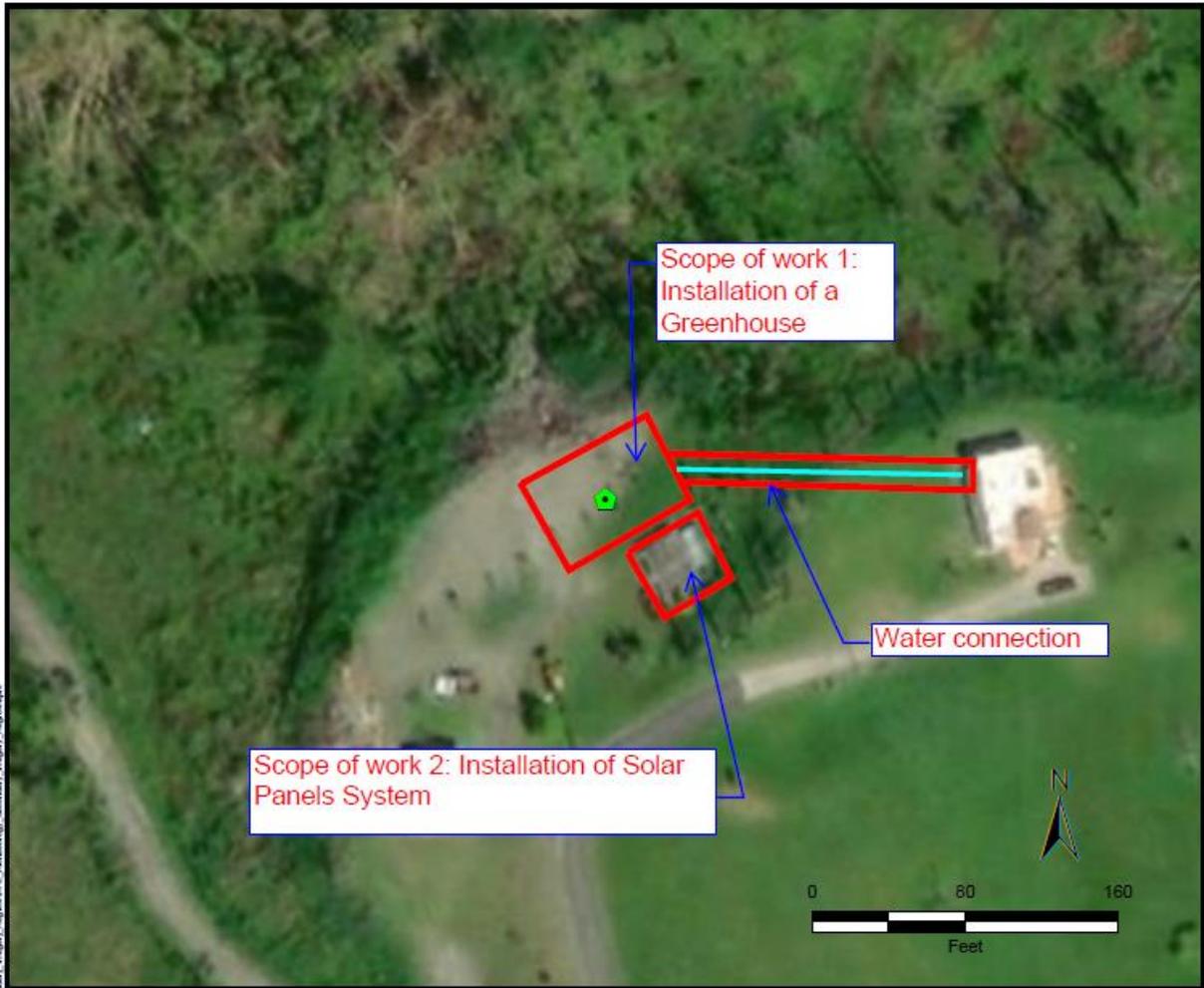
The Puerto Rico State Historic Preservation Office has reviewed the above information and: <input type="checkbox"/> Concurs with the information provided. <input type="checkbox"/> Does not concur with the information provided.	
Comments: 	
Carlos Rubio-Cancela State Historic Preservation Officer	Date:

Subrecipient: Finca Rosalene LLC

Case ID: PR-RGRW-04203

City: Humacao

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



TETRA TECH

Source: CRIM

Author: TG

Date: 11/29/2023

Legend

-  Tier 2 Site
-  Area of Potential Effect
-  Parcelario
-  Water connection



Subrecipient: Finca Rosalene LLC

Case ID: PR-RGRW-04203

City: Humacao

Project (Parcel) Location - Aerial Map



 <p>TETRA TECH</p> <p>Source: CRIM</p> <p>Author: TG Date: 11/16/2023</p>	<p>Legend</p> <ul style="list-style-type: none"> Tier 2 Site Historic Comunidades Traditional Urban Centers Cultural Resource District Polygon Parcelario	
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Subrecipient: Finca Rosalene LLC

Case ID: PR-RGRW-04203

City: Humacao

Project (Parcel) Location - USGS Topographic Map



Source: USGS

Author: TG

Date: 9/19/2023

Legend

-  Tier 2 Site
-  Historic Comunidades
-  Traditional Urban Centers
-  Cultural Resource District Polygon



Subrecipient: Finca Rosalene LLC

Case ID: PR-RGRW-04203

City: Humacao

Project (Parcel) Location – Soils Map



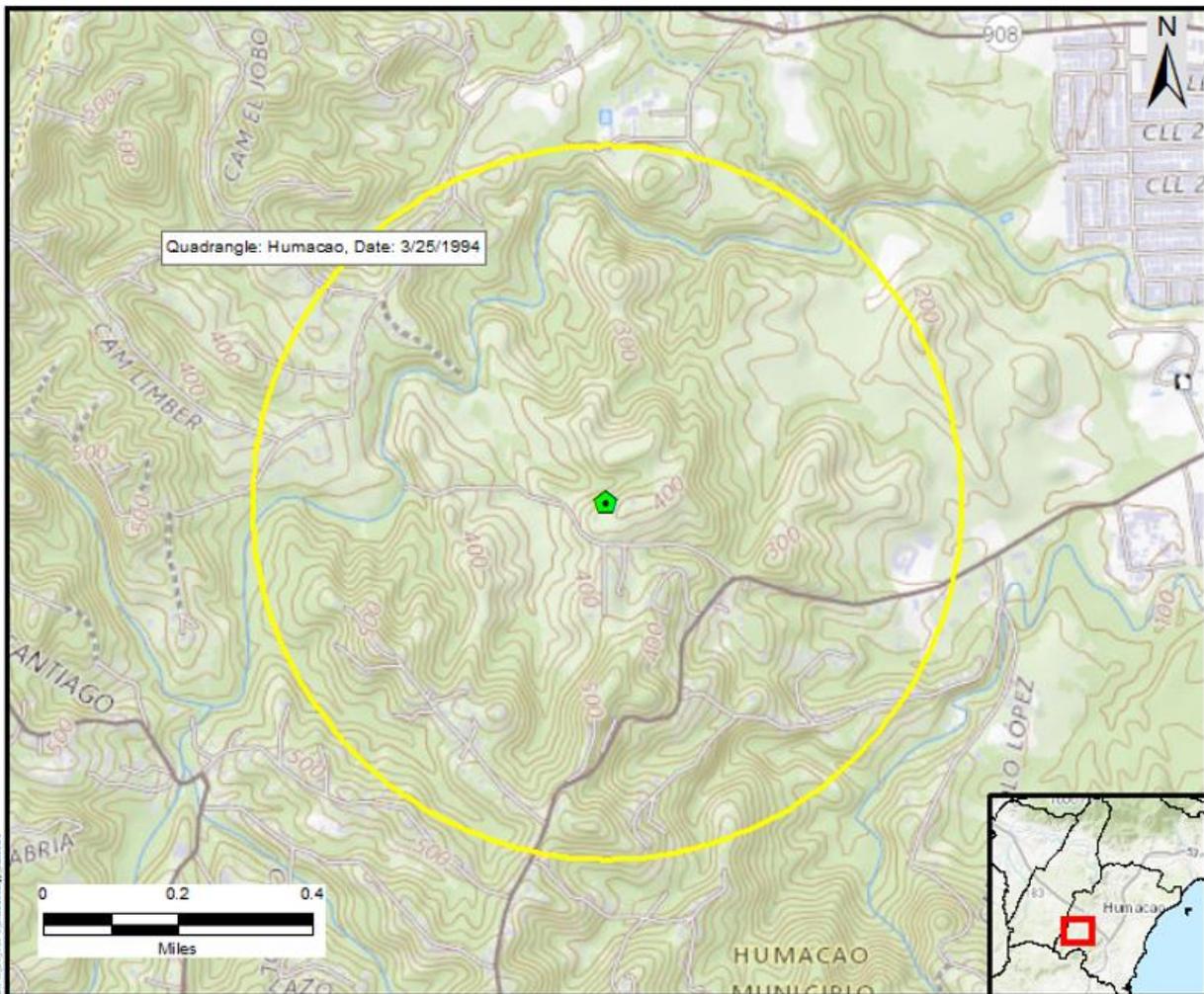
 <p>TETRA TECH</p> <p>Source:USDA</p> <p>Author: TG Date: 11/16/2023</p>	<p>Legend</p> <ul style="list-style-type: none"> Tier 2 Site ParcelarioSoil Type PaE2; Pandura loam, 12 to 40 percent slopes, eroded	
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Subrecipient: Finca Rosalene LLC

Case ID: PR-RGRW-04203

City: Humacao

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



Source: National Park Service

Author: TG

Date: 7/21/2023

- Legend
-  Tier 2 Site
 -  Half Mile Buffer
 -  Historic Comunidades
 -  Traditional Urban Centers
 -  Cultural Resource District Polygon

Subrecipient: Finca Rosalene LLC

Case ID: PR-RGRW-04203

City: Humacao

Photograph Key



Subrecipient: Finca Rosalene LLC

Case ID: PR-RGRW-04203

City: Humacao



Photo #: 1

Date: 12/14/2023

Description (include direction): Scope of Work 1: Installation of a Greenhouse, view to the northeast.



Photo #: 2

Date: 12/14/2023

Description (include direction): Scope of Work 1: Installation of a Greenhouse, view to the southeast.

Subrecipient: Finca Rosalene LLC

Case ID: PR-RGRW-04203

City: Humacao



Photo #: 3

Description (include direction): Scope of Work 1: Installation of a Greenhouse, view to the southwest.

Date: 12/14/2023



Photo #: 4

Description (include direction): Scope of Work 2: Installation of Solar Panels System, view to the northeast.

Date: 12/14/2023

Subrecipient: Finca Rosalene LLC

Case ID: PR-RGRW-04203

City: Humacao



Photo #: 5

Description (include direction): Scope of Work 2: Installation of Solar Panels System, view to the southeast.

Date: 12/14/2023



Photo #: 6

Description (include direction): Scope of Work 2: Installation of Solar Panels System (interior area for the batteries rack and controls), view to the northeast.

Date: 12/14/2023

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM

REGROW PUERTO RICO PROGRAM

Section 106 NHPA Effect Determination



Subrecipient: Finca Rosalene LLC

Case ID: PR-RGRW-04203

City: Humacao



Photo #: 7

Date: 12/14/2023

Description (include direction): Scope of Work 1: Overview of area for the water line connection to be installed from applicant house in the back of the existing storage, view to the northeast.



October 20, 2022

Arch. Carlos A. Rubio Cancela

Executive Director

State Historic Preservation Officer

Cuartel de Ballajá Bldg.

San Juan, Puerto Rico

Re: Authorization to Submit Documents

Dear Arch. Rubio Cancela:

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

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

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

Cordially,

A handwritten signature in blue ink, appearing to be 'JB', is written over the typed name.

Juan C. Pérez Bofill, P.E. M.Eng

Director of Disaster Recovery

CDBG DR-MIT