Environmental Assessment Determinations and Compliance Findings for HUD-assisted Projects 24 CFR Part 58

Project Information

Project ID: PR-RGRW-04113

Project Name: Angel M Rivera Arroyo

Responsible Entity: Puerto Rico Department of Housing

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

State/Local Identifier: Puerto Rico/Barranquitas, PR/ Comerío, PR

Preparer: Andrew McCadden

Certifying Officer Name and Title: Permit and Compliance Officers: Pedro A. De León Rodriguez.

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 61.7-acre site located at Carr 749 km 2.5 Int. Bo. Quebrada Grande in the Municipalities of Barranquitas and Comerío, Puerto Rico (Parcel ID# 247-000-004-30). The coordinates of the project site are 18.211720, -66.267136.

The proposed project site for the greenhouse is an area that has not been developed with brush and grass grown up.

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

The proposed use of grant funds is for the purchase and installation of a greenhouse (SOW-1), a standby generator (SOW-2), and the purchase of a lawn tractor.

The applicant plans to purchase and install a greenhouse (SOW-1) at coordinates 18.212098, -66.267690 to produce sweet peppers. The proposed greenhouse is a metal structure covered with plastic and Saran sheet that has an approximate footprint of 70-foot (ft) x 30 ft. The greenhouse will be supported by posts anchored approximately 2 ft into the ground. Ground clearance and leveling are anticipated as part of the secure installation of the new structure.

The proposal includes the purchase and installation of a standby generator (SOW-2) to be installed at coordinates 18.211622, -66.267029 in a new on-site poured concrete pad measuring 5 ft x 5 ft. This generator will provide power to an existing pump at an existing water well located at coordinates 18.212542, -66.267500 (northeast of the greenhouse location) that will be used to supply water to the new greenhouse.

The power for the water pump will be provided by connecting the pump to the new generator with an approximately 375 ft long underground electric conduit to be installed at a depth of 3 ft. Water connection to the new greenhouse will be achieved using 170 ft of PVC above-ground tube pipe between the existing well and new greenhouse. No ground disturbance is anticipated for the installation of the aboveground water line. 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). This APE has been extended to the applicant residence to allow for utility connections. The visual APE is the viewshed of the proposed project. The proposed APE is approximately 0.26 acres.

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 and installation of a greenhouse (SOW-1), a standby generator (SOW-2), and the purchase of a lawn tractor in keeping with the overall objectives of the Economic Development Program.

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

The land proposed for the installation of the greenhouse it is an area that has not been developed with brush and grass grown up. The generator will be installed close to the applicant residence structure, next to the electric meter pedestal of the farm. The proposed SOW seeks to use the parcel for agricultural purposes. Some ground disturbance will be required.

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	\$11,938,162,230
	Grant – Disaster Recovery (CDBG-	
	DR)	
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: \$48,832.00

Estimated Total Project Cost (HUD and non-HUD funds) [24 CFR 58.32(d)]: \$48,832.00

Compliance with 24 CFR 58.5 and 58.6 Laws and Authorities

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

Compliance Factors : Statutes, Executive Orders, and Regulations listed at 24 CFR §58.5 and §58.6	Are formal compliance steps or mitigation required?	Compliance determinations
STATUTES, EXECUTIVE ORDERS,	AND REGULATION	ONS LISTED AT 24 CFR 58.6
Airport Hazards 24 CFR Part 51 Subpart D	Yes No	The project consists of the purchase and installation of a greenhouse (SOW-1), a standby generator (SOW-2), and the purchase of a lawn tractor. The nearest civil airport is the Fernando Luis Ribas Dominicci, located approximately 104,671 feet from the proposed site. The Luis

		Muñoz Marín is the nearest military airport, located approximately 119,221 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	Puerto Rico has various Coastal Barrier Resources Systems (CBRS). The project is in the "Cordillera Central" region of Puerto Rico. The distance to the nearest CBRS unit (PR-47) is 92,428 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	The Project site is located in Zone X, area of minimal flood hazard, as per Floodplain Insurance Map 72000C1160H, effective date April 19, 2005. This project is in compliance with Floodplain Insurance requirements. (See Figures 4 and 5 in Appendix B .)

STATUTES, EXECUTIVE ORDERS,	AND REGULATI	ONS LISTED AT 24 CFR 58.5
Clean Air Clean Air Act, as amended, particularly section 176(c) & (d); 40 CFR Parts 6, 51, 93	Yes No	The Project site is located in a county or air quality management district that is in attainment status for all criteria pollutants. The Barranquitas and Comerío municipalities are not listed in the EPA Green Book "Puerto Rico Nonattainment/Maintenance Status for Each County by Year for all Criteria Pollutants" (See the List in Appendix C). The purchase and installation of a greenhouse (SOW-1), a standby generator (SOW-2), and the purchase of a lawn tractor would have no impact on air quality. The project is in compliance with Clean Air Act. Refer to EPA listing in Appendix C .
Coastal Zone Management Coastal Zone Management Act, sections 307(c) & (d)	Yes No	The project is located 82,705 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 .
Contamination and Toxic Substances 24 CFR Part 58.5(i)(2)	Yes No	A site visit conducted on September 29, 2023, no debris or rubbish or visible signs vegetative stress, contamination, or toxic substances were noted at the project site.
		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.
		The project consists of the purchase and installation of a greenhouse (SOW-1), a standby generator (SOW-2), and the purchase of a lawn tractor. Refer to Figures 8 and 9 in Appendix B . The project is in compliance with Contamination and Toxic Substances.
Endangered Species Endangered Species Act of 1973, particularly section 7; 50 CFR Part 402	Yes No	The project consists of the purchase and installation of a greenhouse (SOW-1), a standby generator (SOW-2), and the purchase of a lawn tractor located in an area proposed to be used for agricultural purposes.
		According to EPA NEPAssist Enviromapper, the nearest critical or proposed critical habitat is 57,001 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 plain pigeon and Puerto Rican boa as being able to be found in the area, but there are no critical habitats for them at this location.
		A site-specific review of endangered species was conducted, for SOW-1 and SOW-2, in accordance with the Fish and Wildlife Act (47 Stat. 401, as amended: 16 U.S.C. 661 et seq.) (See Appendix D).
		The proposed project will have No Effect on listed species or habitats. Based on the nature of the project, scope of work, information available, and a careful analysis of the Project Site, and IPaC

		species list, it was determined that there would be No Effect for any of the listed species. If a Puerto Rican plain pigeon is found within any of the working or construction areas, activities should stop at that area and information recorded. Designated personnel shall immediately contact the Puerto Rico Department of Natural and Environmental Resources
		(PRDNER) Rangers for additional directions (PRDNER phone #s: ((787) 724-5700, (787) 230- 5550, (787) 771-1124).
		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.
		Conservation measures are included in the ESA Package and IPaC Report included in Appendix D. Refer to Figures 10 and 11 in Appendix B . This project is in compliance with the Endangered Species Act.
Explosive and Flammable Hazards 24 CFR Part 51 Subpart C	Yes No	The project consists of the purchase and installation of a greenhouse (SOW-1), a standby generator (SOW-2), and the purchase of a lawn tractor. The project does not include development, construction, or rehabilitation that will increase residential density.
		The project is in compliance with Explosive and Flammable Hazard requirements.
		Refer to site visit report in Appendix A .
Farmlands Protection Farmland Protection Policy Act of 1981, particularly sections 1504(b) and 1541; 7 CFR Part 658	Yes No	The project site is not designated as farmland of statewide importance. The project consists of the purchase and installation of a greenhouse (SOW-1), a standby generator (SOW-2), and the purchase of a lawn tractor. 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 form review under the Farmland Protection Policy Act (FFPA) as the project is limited to

		construction of on-farm structures needed for farm operations. No further review is required. This project is in compliance with the Farmland Protection Policy Act. Refer to Figure 12 in Appendix B.
Floodplain Management Executive Order 11988, particularly section 2(a); 24 CFR Part 55	Yes No	The Project site is not located in a 100-year floodplain per Floodplain Insurance Map 72000C1160H, effective date April 19, 2005. The project site is not located in Preliminary Firm or an Advisory Base Flood Elevation (ABFE) special flood hazard area. See Figures 4, 5 and 6 in Appendix B . This project is in compliance with Executive Order 11988
Historic Preservation National Historic Preservation Act of 1966, particularly sections 106 and 110; 36 CFR Part 800	Yes No	The site was evaluated on October 17, 2023, by an SOI Qualified Architect/Architectural Historian. Additionally, the site was evaluated on October 20, 2023, by an SOI Qualified Archaeologist. (Appendix E). SHPO concurred with a finding of No Historic Properties Affected within the project's Area of Potential on Effects on November 22, 2023. Refer to Figure 13 in Appendix B and the report
		in Appendix E. This project is in compliance with Historic Preservation requirements.
Noise Abatement and Control Noise Control Act of 1972, as amended by the Quiet Communities Act of 1978; 24 CFR Part 51 Subpart B	Yes No	HUD's noise regulations protect residential properties from excessive noise exposure. The project consists of the purchase and installation of a greenhouse (SOW-1), a standby generator (SOW-2), and the purchase of a lawn tractor at a farm site. HUD noise regulations do not apply as the project does not include new construction for residential use or rehabilitation of an existing residential property. The proposed project is in compliance with Noise Abatement and Control.
Sole Source Aquifers Safe Drinking Water Act of 1974, as amended, particularly section 1424(e); 40 CFR Part 149	Yes No	There are no EPA sole source aquifers in Puerto Rico. The project is in compliance with Sole Source Aquifer requirements.

Wetlands Protection Executive Order 11990, particularly sections 2 and 5	Yes No	The southern coast is 86,467 feet southwest of the property. The closest fresh-water bodies include an unnamed creek 196 feet southwest, Quebrada Grande 1,748 feet west of the property, and Rio Frio 2,200 feet north of the
		property. The NWI maps indicated that the unnamed creek located 196 feet to the southwest of project area is identified as a riverine wetland. No wetlands are located within the proposed project area.
		Standard construction BMPs would be used to control erosion and runoff during construction. With these mitigations the construction of the greenhouse would not impact any wetlands and includes no activities that would require further evaluation under this section.
		The project is in compliance with Executive Order 11990. Refer to Figure 14 in Appendix B .
Wild and Scenic Rivers Wild and Scenic Rivers Act of 1968, particularly section 7(b) and (c)	Yes No	This project is not within proximity of a National Wild and Scenic River (WSR). The distance to the nearest WSR is approximately 175,734 feet. The project is in compliance with the Wild and Scenic Rivers Act. Refer to Figure 15 in Appendix B .

ENVIRONMENTAL JUSTICE		
Environmental Justice Executive Order 12898	Yes No	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.

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	Impact	
Assessment Factor	Code	Impact Evaluation
LAND DEVELOP/	MENT	
Conformance with Plans / Compatible Land Use and Zoning / Scale and Urban Design	2	The proposed project is located on a private farm. The project consists of the purchase and installation of a greenhouse (SOW-1), a standby generator (SOW-2), and the purchase of a lawn tractor. The project site is zoned as "Rural General (R-G)." The proposed action is compliant with the agricultural land use of the Project area.
Soil Suitability/ Slope/ Erosion/ Drainage/ Storm Water Runoff	2	The proposed project is located in relatively flat terrain. Soils in the proposed project area are classified Naranjito silty clay (NaF), Humatas clay (HtF), and Mucara Cay (MxF) all with 40 to 60 percent slopes, surrounded by forests and residences, 560 meters above mean sea level.
		The proposed project area for SOW 1 is located in a grassy planted area, within a cleared and maintained field. The proposed project for SOW 2 is located near the applicant's residence, on a flat, mowed surface. No trees will be removed during this project.
		The project site area is rated "moderate" for landslide susceptibility (see Figure 16 in Appendix B).
		Standard construction BMPs would be used to control erosion and runoff during construction.
		There will be little to no additional runoff associated with the project.

Hazards and Nuisances including Site Safety and Noise		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. Standard BMPs, such as construction fencing, would be applied to protect the farm residents and public from typical construction hazards.
Environmental Assessment Factor	Impact Code	Impact Evaluation
SOCIOECONOA	AIC	
Employment and Income Patterns	2	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.
		The proposed project would not negatively impact employment or income patterns.
Demographic Character Changes, Displacement	2	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	2	In the area (one mile radius) in which project will occur.
Justice		99% are people of color compared to PR average of 96%
		80% are low income compared to PR average of 70%
		28% are unemployed compared to PR average of 15% The proposed purchase and installation of a greenhouse (SOW- 1), a standby generator (SOW-2), and the purchase of a lawn tractor will result in restoration and increase in income and potential employment opportunities in the local area. The impacts would be beneficial. See EJScreen Report in Appendix C

Environmental	Impact
Assessment Factor	Code

		Impact Evaluation		
COMMUNITY FACILITIES AND SERVICES				
Educational and Cultural Facilities	2	The project consists of the purchase and installation of a greenhouse (SOW-1), a standby generator (SOW-2), and the purchase of a lawn tractor. 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 and installation of a greenhouse (SOW-1), a standby generator (SOW-2), and the purchase of a lawn tractor. 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 and installation of a greenhouse (SOW-1), a standby generator (SOW-2), and the purchase of a lawn tractor. 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	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 would be agricultural, which waste would be biodegradable.		
Wastewater / Sanitary Sewers	2	The project consists of the purchase and installation of a greenhouse (SOW-1), a standby generator (SOW-2), and the purchase of a lawn tractor. 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 and installation of a greenhouse (SOW-1), a standby generator (SOW-2), and the purchase of a lawn tractor. Applicant has access to a water supply from an existing water well located onsite. The proposed project will have minor impact on water usage.		

Public Safety – Police, Fire and Emergency Medical	2	The project consists of the purchase and installation of a greenhouse (SOW-1), a standby generator (SOW-2), and the purchase of a lawn tractor. 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 and installation of a greenhouse (SOW-1), a standby generator (SOW-2), and the purchase of a lawn tractor. 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 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	NATURAL FEATURES				
Unique Natural Features, Water Resources	2	The proposed project will be situated on a land with an unknown past use. The project consists of the purchase and installation of a greenhouse (SOW-1), a standby generator (SOW-2), and the purchase of a lawn tractor. The APE of the SOW-1 is at an estimated distance of 196 ft to the northeast of the identified unnamed creek, inside of the parcel. Natural vegetation buffer zone of equal or greater than 15 meters (50 ft) will be maintained, at all times. No cortex removal, ground disturbances, earth movement, or constructions activities are contemplated nearby a unique natural features or water resources.			
Vegetation, Wildlife	2	The proposed project will be situated on a land with an unknown past use. The project consists of the purchase and installation of a greenhouse (SOW-1), a standby generator (SOW-2), and the purchase of a lawn tractor. The proposed location area for the SOW-1 is partially maintained while some area has grown vegetation, brush and some trees. To minimize the possible impact of the construction activities on the present vegetation the greenhouse will be located in its majority to the cleaned area. All vegetative exceedance material resultant from the clearing activities will be disposed as per the Municipal vegetative material management and diversion plan. No vegetative material will be stored or left at site. Proposal does not contemplate cutting,			

pruning or transplanting of trees. The proposed project will have
minimal impact on vegetation and no impact on wildlife.

1		
Environmental	Impact	
Assessment Factor	Code	Impact Evaluation
CLIMATE AND ENERG	GY	
Climate Change	2	This is a small agricultural project with no measurable impact on
Impacts		climate change factors.
		The project area is rural and does not have urban heat island effects.
		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.
		With respect to climate change impact on the project, agricultural activities could be affected by drought.
Energy		The use of the generator on an as needed basis will reduce the
Efficiency/Energy	2	energy loss that would be experienced through transmission
Consumption		lines to the site.
		The project would not be connected to the local electricity provider. There would be no change in energy demand in the area.

Additional Studies Performed: None required.

Field Inspection (Date and completed by):

Site inspection was conducted on September 29, 2023 by Carlos Medina.

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 <u>map.</u> <u>www.fws.gov/CBRA/Maps/Locator/PR.pdf</u>

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

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: <u>www.epa.gov/environmental-topics/air-topics</u>

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

Federal Emergency Management Agency, Flood Mapping Service: <u>https://msc.fema.gov/portal/home_</u> (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 growth of agricultural products at the farm would not increase. The project would allow more efficient processing of the agricultural products. Water use would increase to a minor degree in the new greenhouses but would only impact the existing site water supply. There are no other wells nearby to be affected.

The project would not be connected to the local electricity provider. The proposed installation of a power generator will reduce the energy loss that would be experienced through transmission lines to the site and will allow for the water pump and the water well to be operated without representing an additional demand to the local utility. The project does not contemplate electrical connection to the new greenhouse. There would be no change in energy demand in the area.

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. The applicant submitted a proposal to initiate agricultural production on their property. The proposed use of grant funds will allow the applicant to initiate the cultivation, processing, and delivery of agricultural products through the purchase and installation of a greenhouse (SOW-1), a standby generator (SOW-2), and the purchase of a lawn tractor. Any alternative that would involve an off-property location would not enhance and expand agricultural production or allow for the economic development for this applicant. The actions are proposed in a property owned by the applicant and a field area that has been already cleared and maintained located proximate to the existing residence and the existing onsite water well. While the proposed location has the facilities to be used for storage of equipment, among the possibles impacts of alternative location, the location of the new greenhouse and generator off-property will require transportation of equipment and products in and out of property creating an increase in traffic and other vial impacts due to the transportation of materials and heavy equipment. Alternative locations off and on property may represent an impact to undisturbed and/or uneven ground which could require heavier clearing and grading activities. On the other hand, the property already has a drilled well. An offsite alternative could require the drilling of a new well or the need to connect the facilities to local utility services if available. 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)]:

Under the No Action Alternative, the applicant would not receive federal funding for the purchase and installation of a greenhouse (SOW-1), a standby generator (SOW-2), and the purchase of a lawn tractor, 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.

Law, Authority, or Factor	Mitigation Measure		
Soil Suitability/ Slope/ Erosion/ Drainage/ Storm Water Runoff	Standard construction BMPs would be used to control erosion and runoff during construction.		
Wetlands Protection	Standard construction BMPs would be used to control erosion and runoff during construction.		
Endangered Species	Implement Puerto Rican Boa and the Puerto Rican plain pigeon conservation measures included in Appendix D, prior to and during construction to avoid or minimize impacts to this species.		
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.		
Utility Connections- LUMA/PRASA	The project does not involve new utility connections. 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.		
Power generator	The SOW includes a power generator installation. Electricity generators with motor capacity equal or higher than 10 horsepower (HP) require the submittal and approval of an Electric Generator Permit. Applications are submitted via the		

	Single Business Portal of the OGPe to be evaluated and physicalized by the Air Quality Division of the PRDNER. Required permit should be obtained by the applicant prior to construction activities.
Well	Well or water intake activities require a construction and operation permit form the Water Permits and Franchises Division (DPFA) of the PRDRNER. The SOW does not involve the drilling, construction or installation of the existing well. However, the applicant is responsible for any permits or actions to ensure legalization (if needed) of existing well usage. 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.

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:	<i>ш</i> г[Date: 1/26/2024
Name/Title/Organization: <u>Andrew N</u>	<u>IcCadden, Senior Biolog</u>	gist, Tetra Tech Inc.
Certifying Officer Signature:	A. Le In'	Date: <u>3/2/2024</u>

Name/Title: Pedro A. de León Rodríguez, MSEM/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-04113			
Applicant Name		Angel M Rivera Arroyo		
Property Address	Carr 749 km			
Parcel ID		4-30		
Coordinates	18.212098,	-66.267690		
Inspector Name				
Inspection Date				
Building Type		, 		
	vacant			
Number of Units	1			
Number of Stories	1			
Year Built; Data Source	; Historia	in		
ENVIRONMENTAL OBSERVATIONS (attach	photos and n	otes, as nece	essary, for any YES answers)	
OBSERVATION ITEMS	YES	NO	СОММЕНТЯ	
A. Is the structure in use? B. is structure a greenhouse?		<u>ব</u>		
C. Is Electricity connected?				
D. Is water connected? (Utilities or Well)		V		
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.)				
2. Are there any 55-gallon drums visible on site? If yes, are they				
leaking?				
		_		
3 . Are there any (or signs of any) underground storage tanks on				
the property?		\checkmark		
4. Are there signs of ASTs on the parcel or adjacent parcel? If yes,				
list approximate size and contents, if known.		_		
5. Is there any stained soil or pavement on the parcel?		2		
		V		
6. Is a water drainage system in use?		V		
7. Is a warehouse in use for storage of Fertilizer or Pesticides ?		V		
8. Are there any groundwater monitoring wells on the site or adjacent parcel?	Ø		Existing water well.	
9. Is there evidence of a faulty septic system?		Ø		
10. Is there distressed vegetation on the parcel?		V		
11. Is there any visible indication of MOLD?		V		





12. Is there any visible evidence of asbestos, chipping, flaking or peeling paint, or hazardous materials present in or on the structure?	Ŋ	
13. Are any additional site hazards observed?	Ŋ	
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)?	Ŋ	
15 . Does the subject property have water frontage ?	Ŋ	
16. Is there any indication of the presence of Wetlands?	V	
17 . Are there any obvious signs of animals or birds nesting on or near the site?	Ø	
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?		
19 . Is a historic marker present?	Ŋ	

Additional Notes:

Case: PR-RGRW-04113 Project Name: Angel M Rivera Arroyo Coordinates: 18.212086, -66.267348

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

Scope of Work: The scope includes the purchase and installation of a greenhouse, a generator and a tractor.

Land current in use for: vacant

Past Land use was: unknown

The applicant plans to do: installation of a greenhouse and a generator with a concrete pad of 5' x 5'.

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 18.212098, -66.267690 Installation of a greenhouse of 70' x 30' in metal, plastic and saran. This greenhouse will be use for the production of sweet peppers in tables.

Scope of work 2: installation of a generator 18.211622, -66.267029 Installation of a generator in a concrete pad of 5' x 5'. This generator will provide power to an existing water well.

Any new water connection or power connection?

Water: water for the greenhouse will be provided from an existing water well located at 18.212542, -66.267500. Overground PVC tubes will be installed from the water well to the greenhouse, approximately 170' long.

Power: power for the water well will be provided by a generator. A connection thru an electric conduit underground at 3' with a distance of approximately 375' long.







Site Sketch









Side #1 of Structure

Photo Direction: East















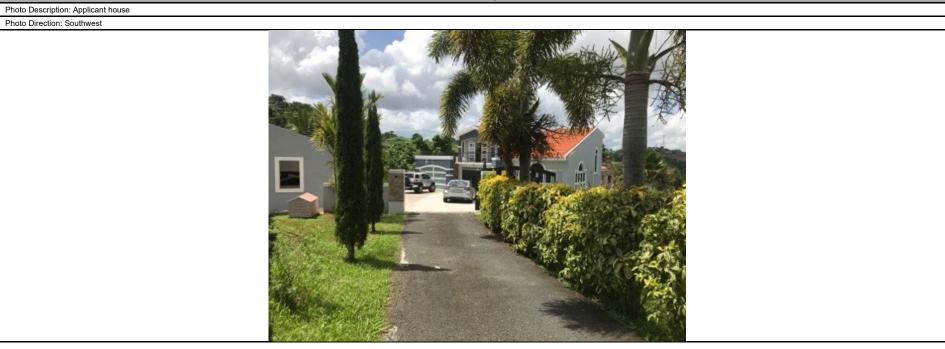
Address





Photo Log - PR-RGRW-04113

Outbuildings





Structural Details

Photo Description: Architectural details

Photo Direction: West



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: East





Photo Description: Architectural details

Photo Direction: Northwest





Structural Details

Photo Description: Architectural details

Photo Direction: Northwest

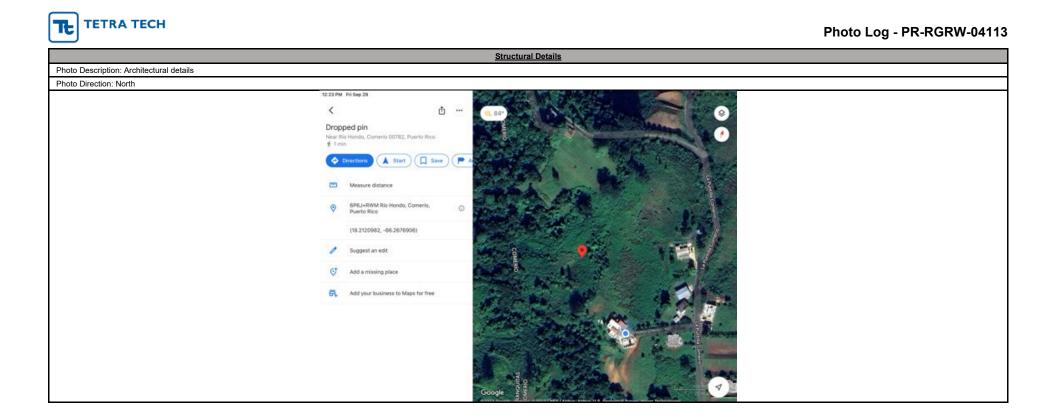


Structural Details

Photo Description: Architectural details

Photo Direction: Northwest

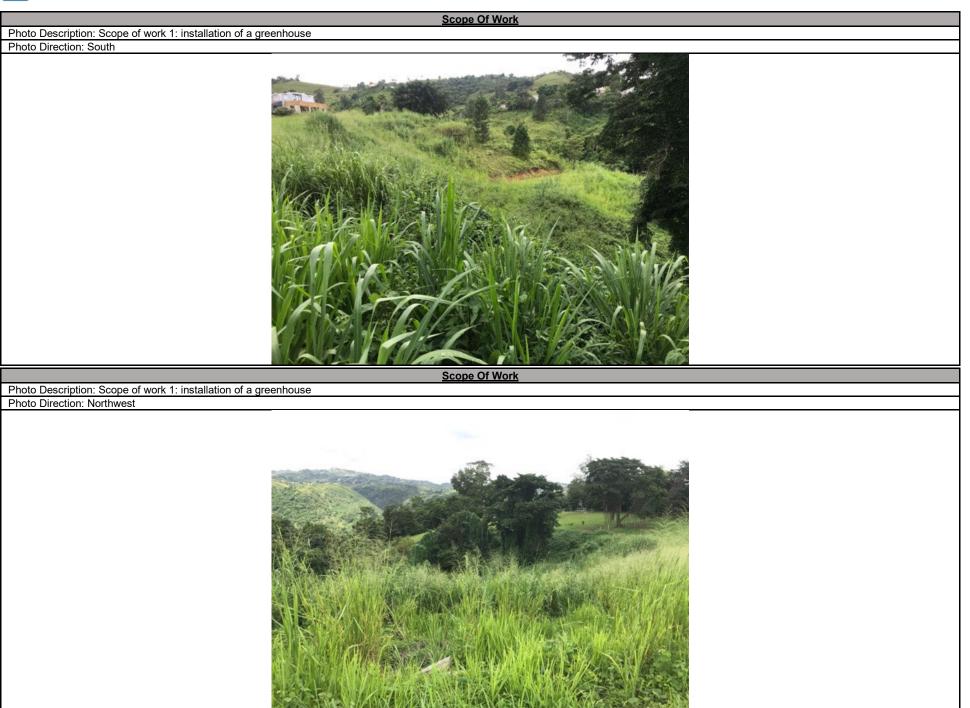
















Scope Of Work

Photo Description: Scope of work 2: installation of a generator

Photo Direction: North



Photo Description: Scope of work 2: installation of a generator Photo Direction: East

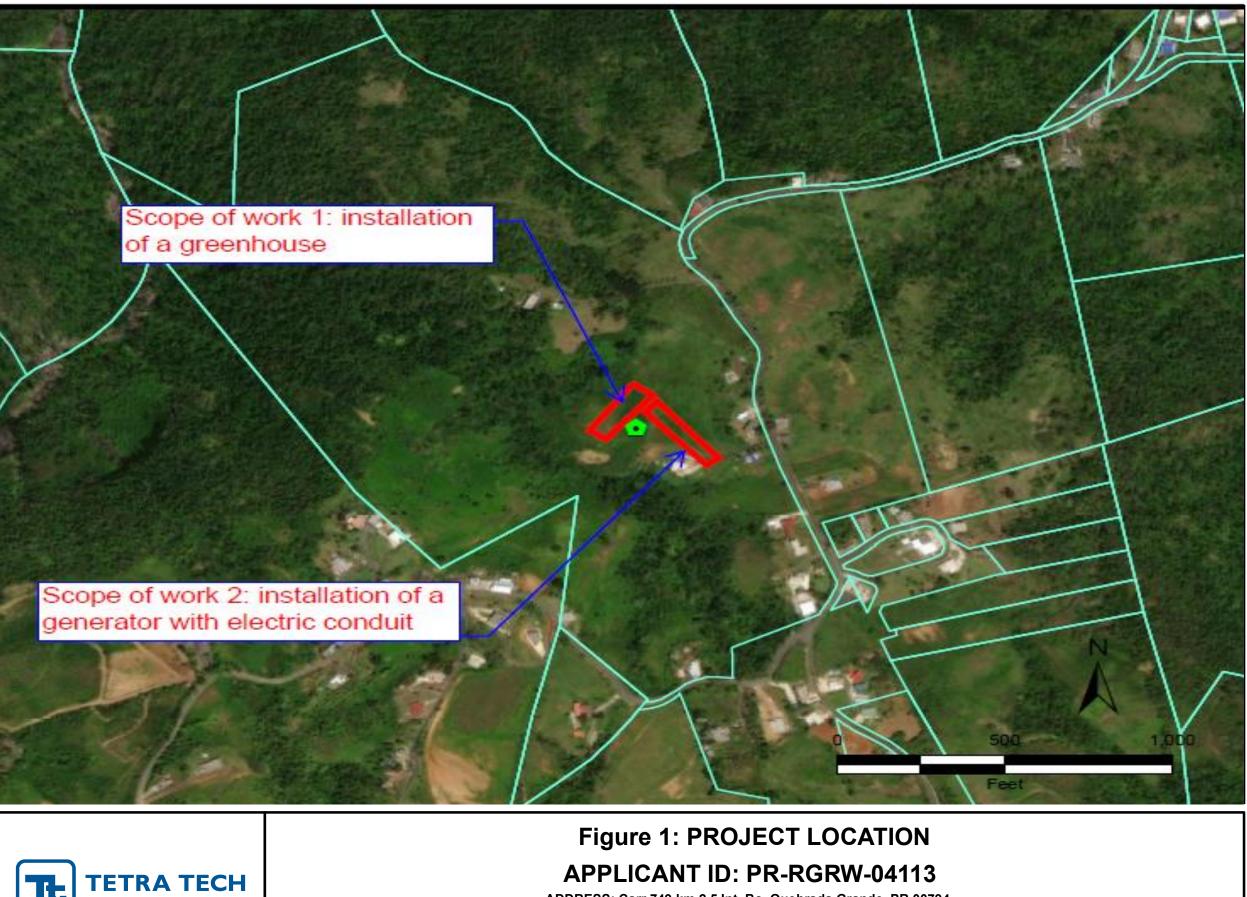






APPENDIX B

Maps





ADDRESS: Carr 749 km 2.5 Int. Bo. Quebrada Grande, PR 00794 Name of Development: Angel M Rivera Arroyo Parcel Coordinates: 18.212098, -66.267690

Legend • Project Parcel



Area of Potential Effect



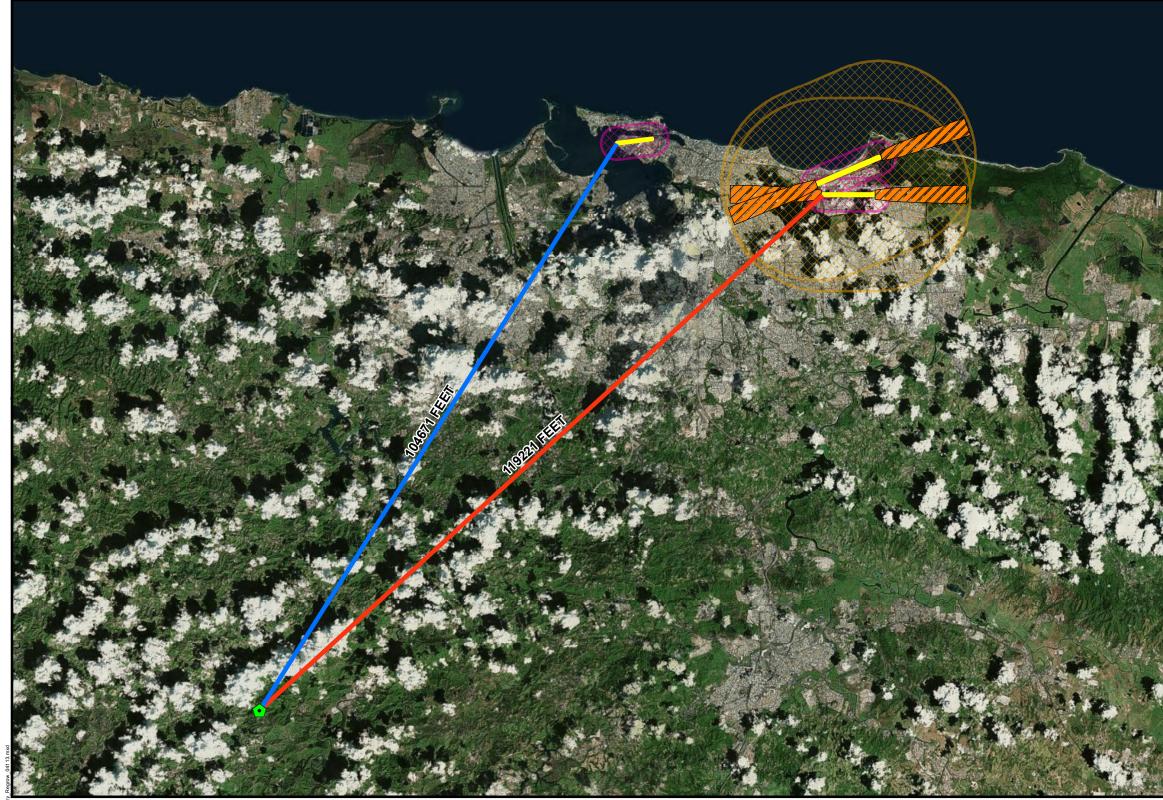




Figure 2: AIRPORT ZONES **APPLICANT ID: PR-RGRW-04113**

ADDRESS: Carr 749 km 2.5 Int. Bo. Quebrada Grande, PR 00794 Name of Development: Angel M Rivera Arroyo Parcel Coordinates: 18.212098, -66.267690



Legend

Civilian Runway Protection Zones



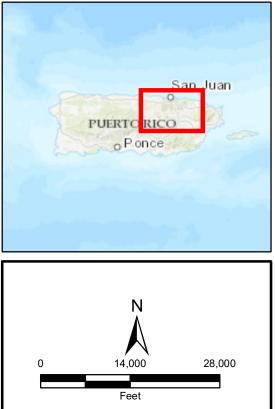
Military Accident Potential Zones

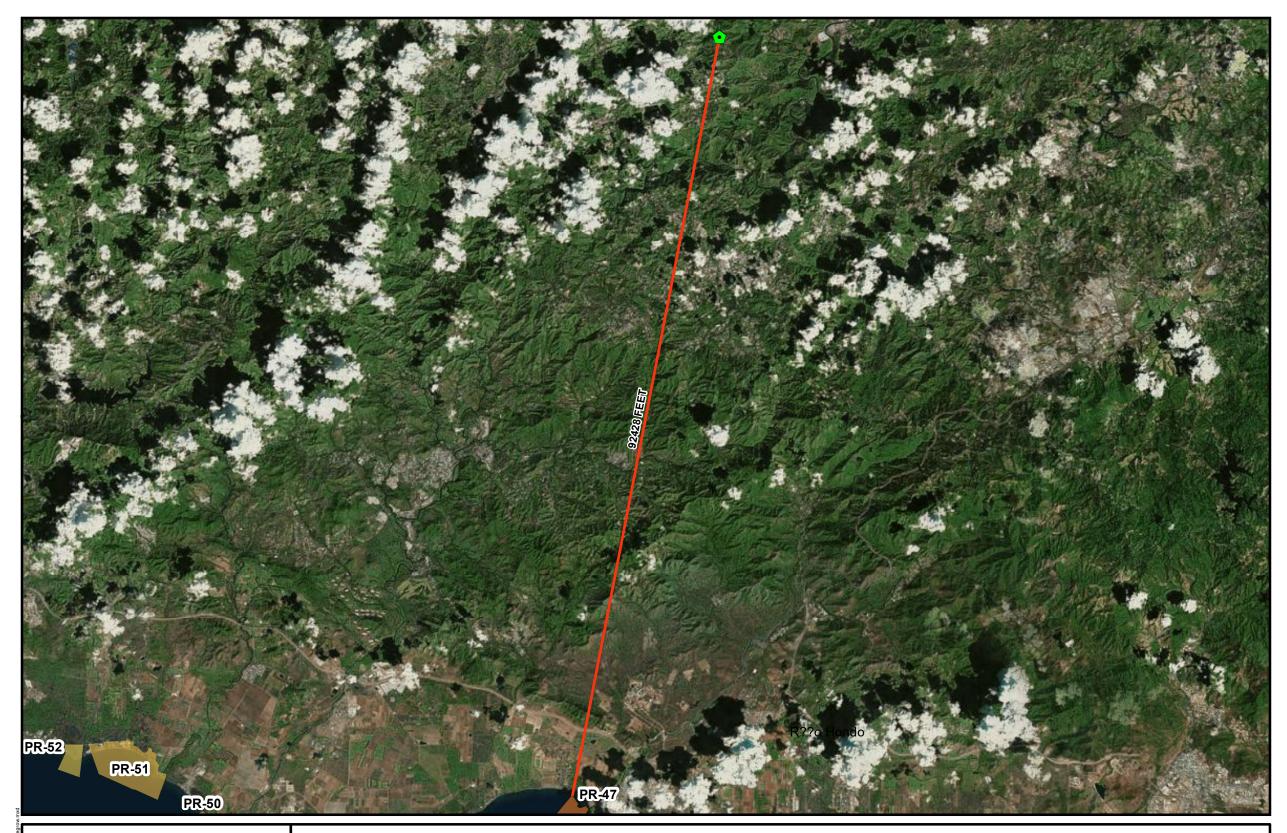


Civilian Airport 2,500 Feet Buffer

Military Airport 15,000 Feet Buffer

Distance to Nearest Airport in Feet: 104671







Author: TG

Figure 3: COASTAL BARRIERS IMPROVEMENT ACT APPLICANT ID: PR-RGRW-04113

ADDRESS:Carr 749 km 2.5 Int. Bo. Quebrada Grande, PR 00794 Name of Development:"Angel M Rivera Arroyo" Parcel Coordinates: 18.212098, -66.26769

Date: 6/29/2023

Legend

• Project Parcel

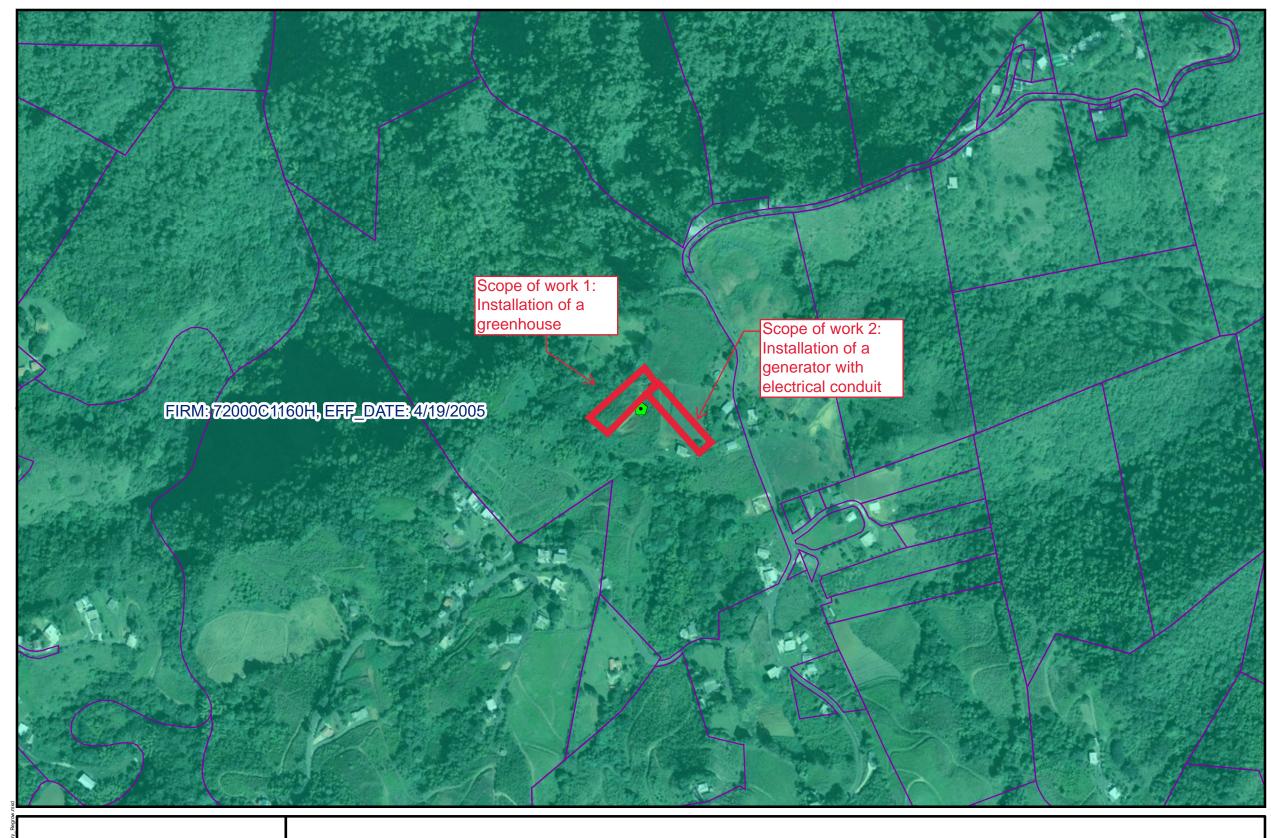
Coastal Barrier Resources System Boundary

Unit

PR-47
PR-50
PR-51
PR-52

Distance to Nearest Coastal Barrier Resources System in Feet: 92428 Feet





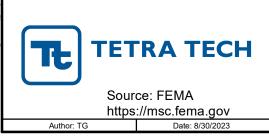


Figure 4: FLOODPLAIN MANAGEMENT APPLICANT ID: PR-RGRW-04113

ADDRESS: Carr 749 km 2.5 Int. Bo. Quebrada Grande, PR 00794 Name of Development: Angel M Rivera Arroyo Parcel Coordinates: 18.212098, -66.26769

Legend

• Project Parcel

Parcels

FIRM Panels

Floodway

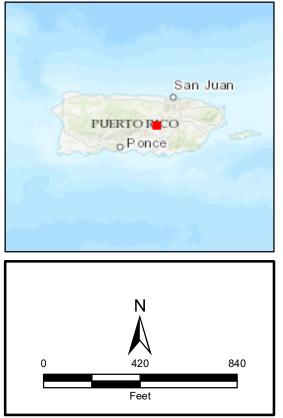
100 Yr Floodzone

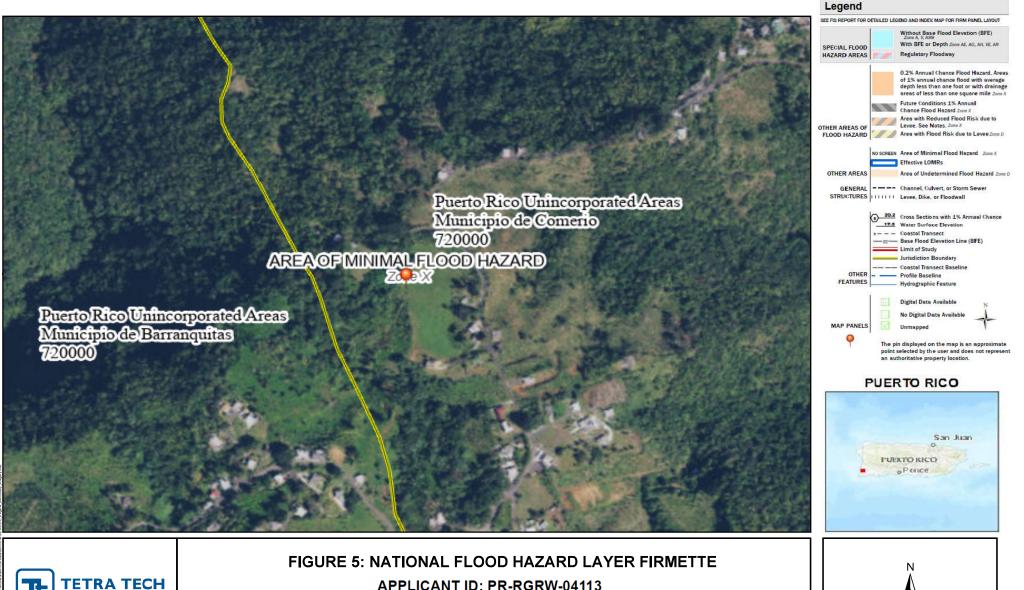
500 Yr Floodzone

Area Of Minimal Flood Hazard

Unmapped for Floodplain

Area of Potential Effect





Source: FEMA https://www.msc.fema.gov Author: TG Date: 5/31/2023

TE

APPLICANT ID: PR-RGRW-04113 ADDRESS: Carr 749 km 2.5 Int. Bo. Quebrada Grande, PR 00794

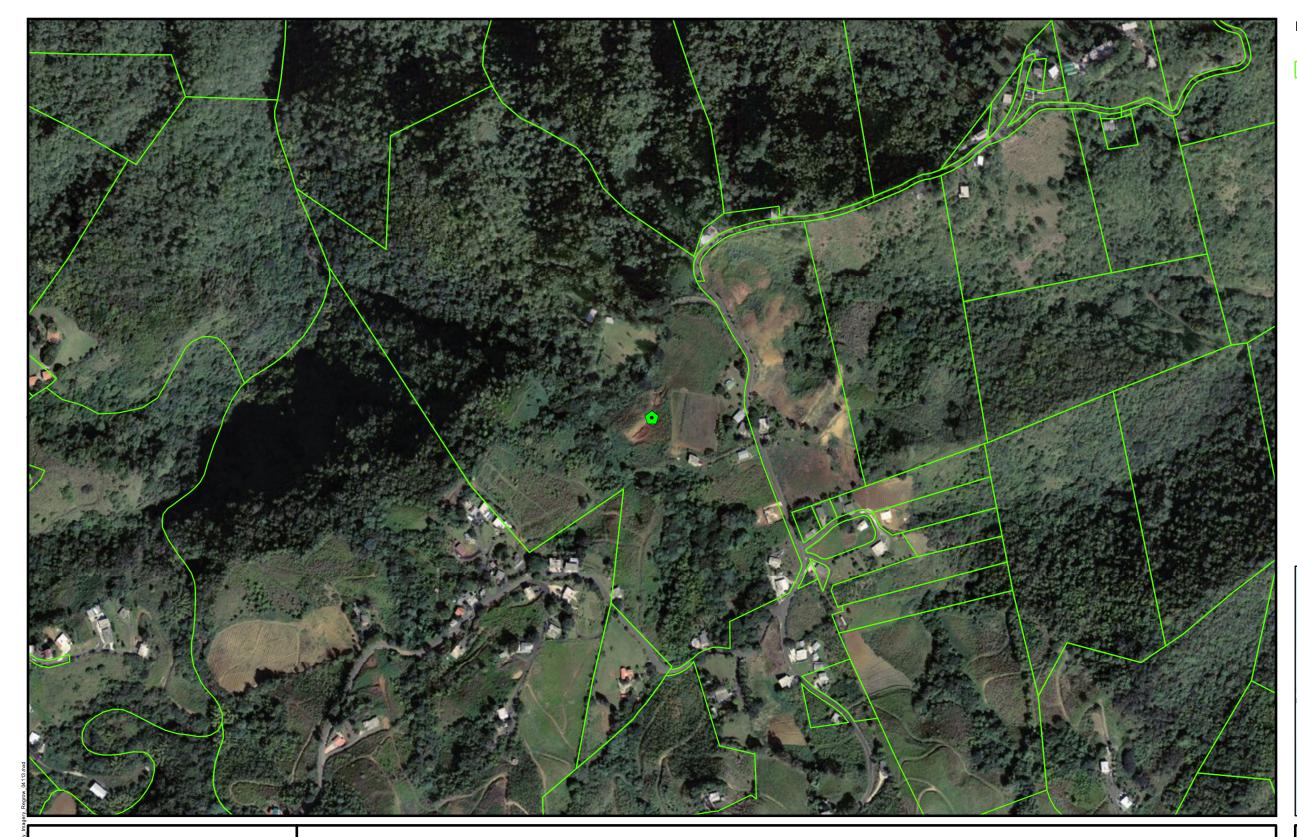
140

Fee

280

Name of Development: Angel M Rivera Arroyo

Parcel Coordinates: 18.212098 , -66.26769



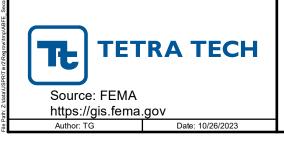


Figure 6: ADVISORY BASE FLOOD ELEVATION APPLICANT ID: PR-RGRW-04113

ADDRESS: Carr 749 km 2.5 Int. Bo. Quebrada Grande, PR 00794

Name of Development: Angel M Rivera Arroyo

Parcel Coordinates : 18.212098, -66.267690

Legend







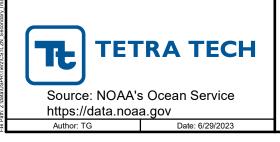


Figure 7: COASTAL ZONE MANAGEMENT APPLICANT ID: PR-RGRW-04113

ADDRESS: Carr 749 km 2.5 Int. Bo. Quebrada Grande, PR 00794 Name of Development: Angel M Rivera Arroyo

Parcel Coordinates: 18.212098, -66.26769

Legend



Distance to Nearest Coastal Zone: 82705 Feet



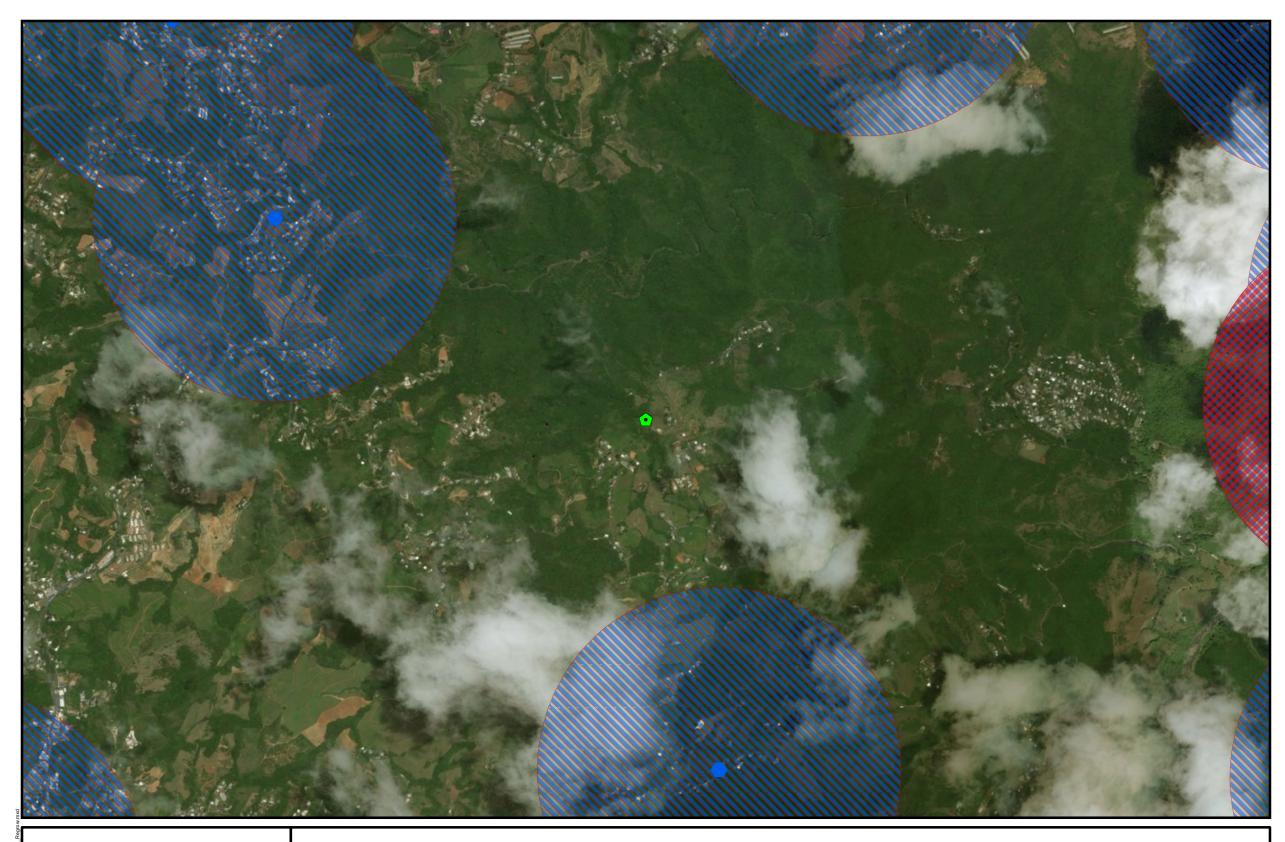


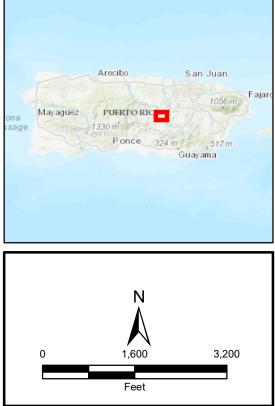


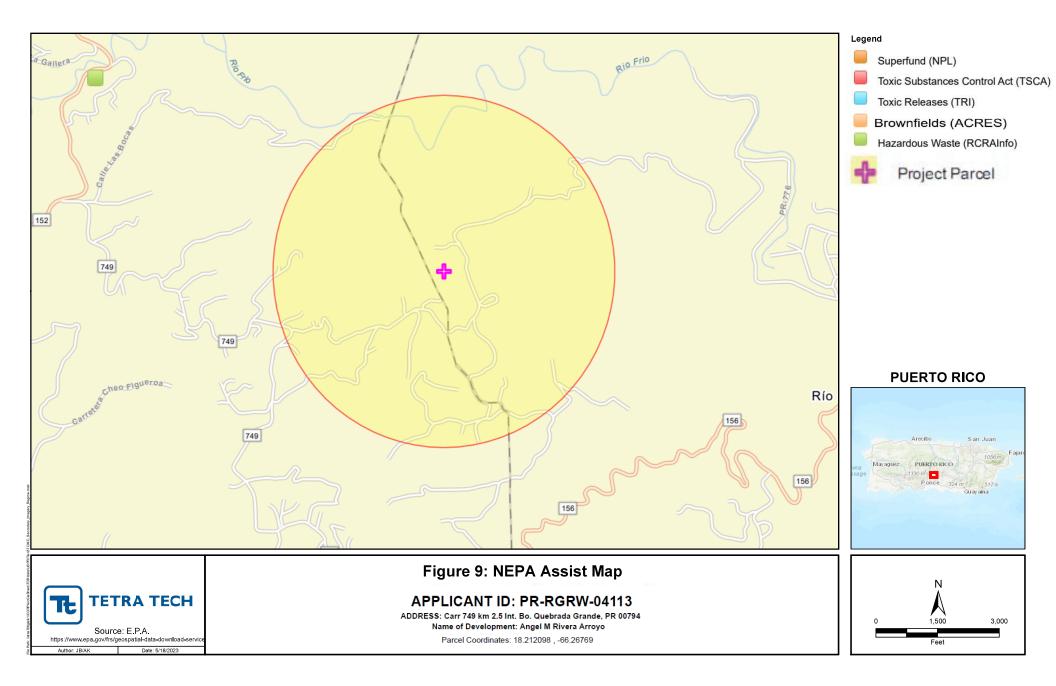
Figure 8: TOXIC CHEMICALS AND GASES, HAZARDOUS MATERIALS, CONTAMINATION, AND RADIOACTIVE SUBSTANCES APPLICANT ID: PR-RGRW-04113

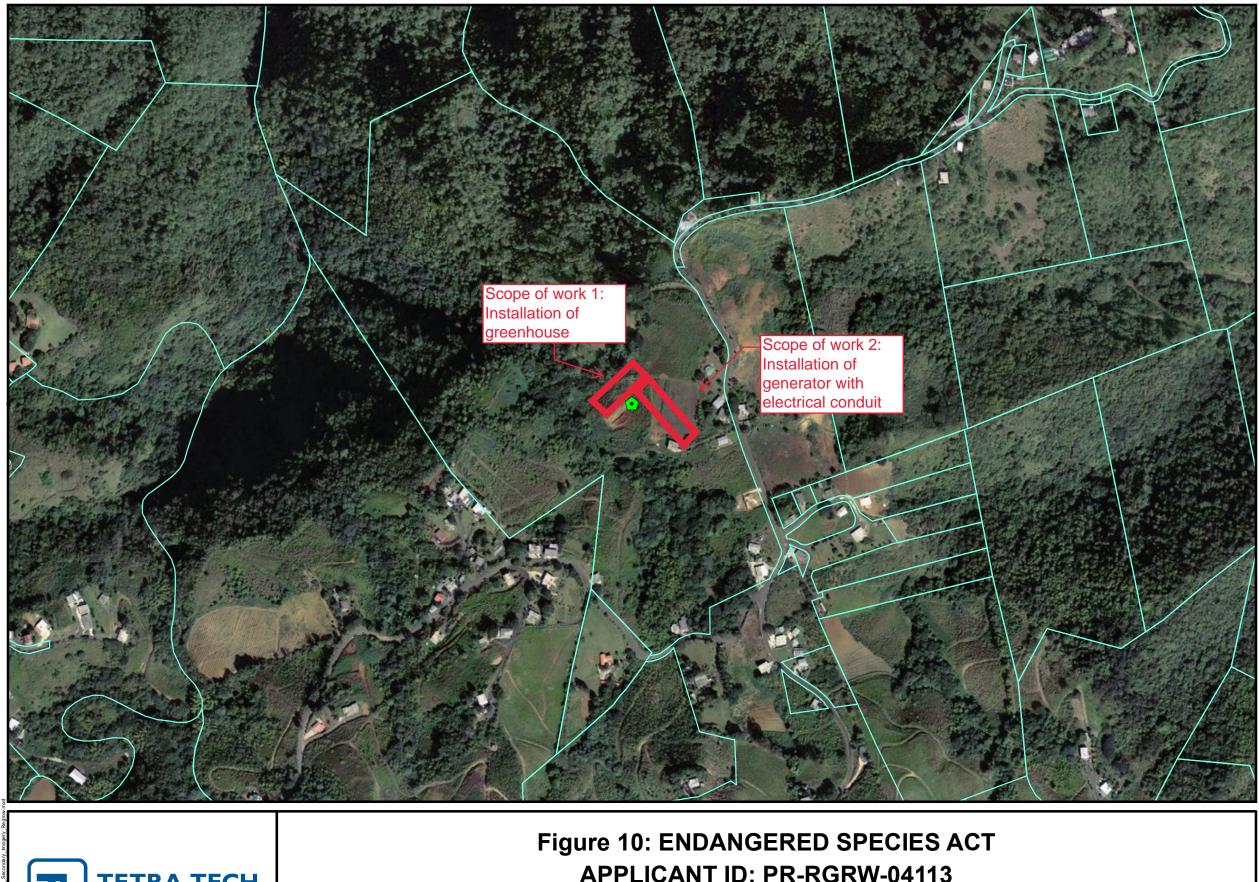
ADDRESS: Carr 749 km 2.5 Int. Bo. Quebrada Grande, PR 00794 Name of Development: Angel M Rivera Arroyo Parcel Coordinates: 18.212098, -66.26769

Legend

- Project Parcel
- RCRA
- Toxic Release Inventory Site
- Superfund Site
- Brownfield Sites
- ParcelsForMapRun_WMAS_ReGrow
- 3000 Ft Buffer TRI
 - 3000 Ft Buffer Superfund
- 3000 Ft Buffer RCRA
 - 3000 Ft Buffer Brownfield









APPLICANT ID: PR-RGRW-04113

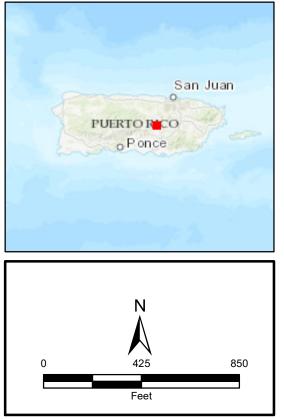
ADDRESS: Carr 749 km 2.5 Int. Bo. Quebrada Grande, PR 00794 Name of Development: Angel M Rivera Arroyo

Parcel Coordinates: 18.212098, -66.26769

Legend



Area of Cirtical Hábitat



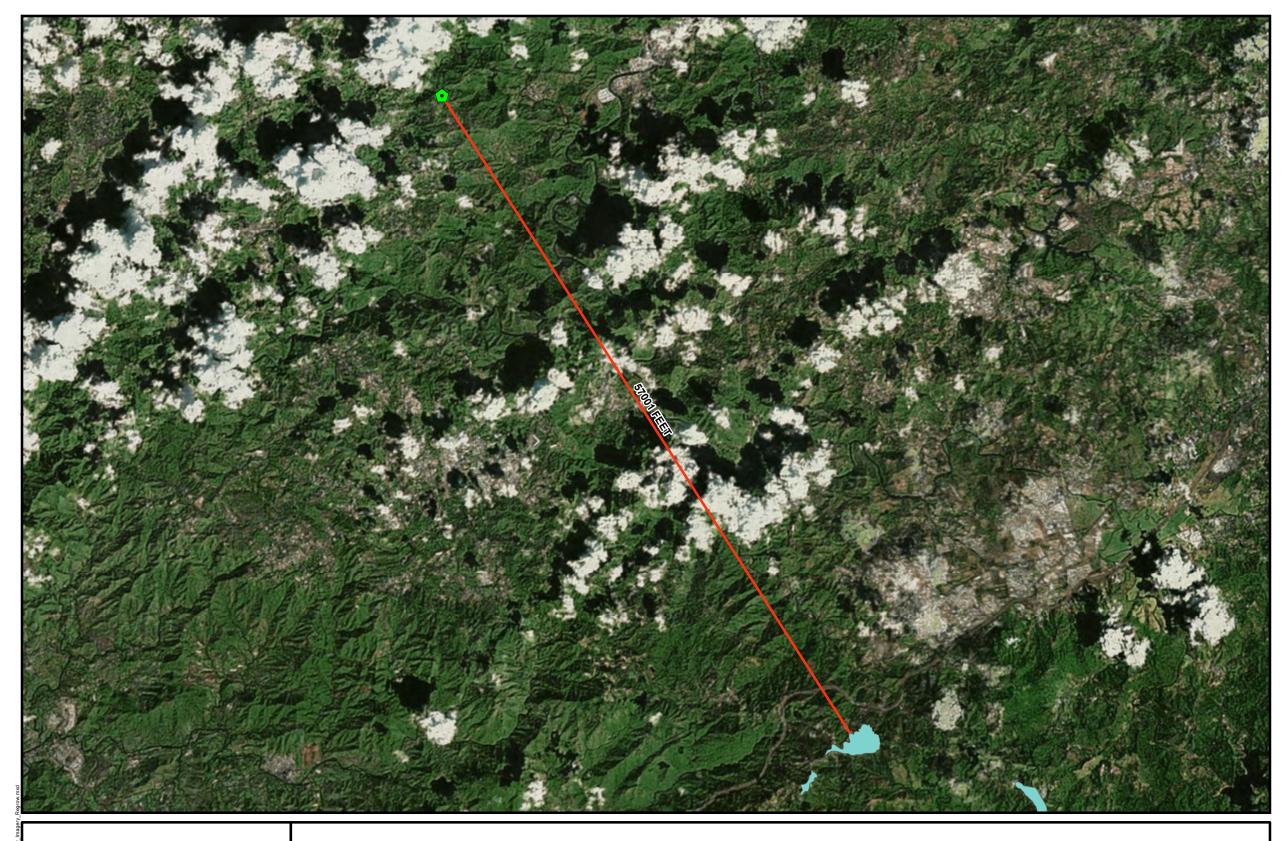




Figure 11: CRITICAL HABITATS APPLICANT ID: PR-RGRW-04113

ADDRESS: Carr 749 km 2.5 Int. Bo. Quebrada Grande, PR 00794 Name of Development: Angel M Rivera Arroyo

Parcel Coordinates: 18.212098, -66.26769

Legend



comname

Golden coqui

Distance to Nearest Critical Habitat in Feet: 57001 Feet



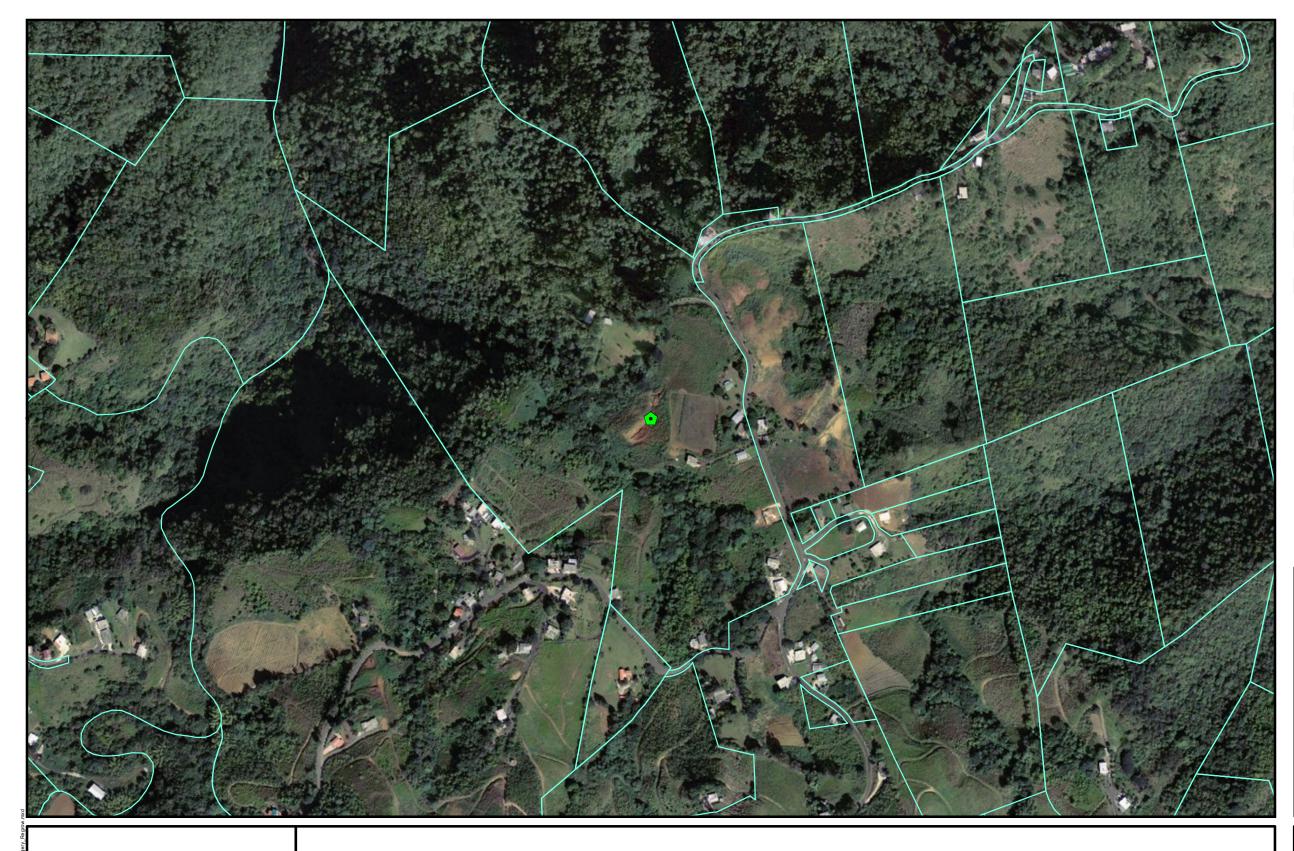




Figure 12: FARMLAND PROTECTION APPLICANT ID: PR-RGRW-04113

ADDRESS: Carr 749 km 2.5 Int. Bo. Quebrada Grande, PR 00794 Name of Development: Angel M Rivera Arroyo Parcel Coordinates: 18.212098, -66.26769

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



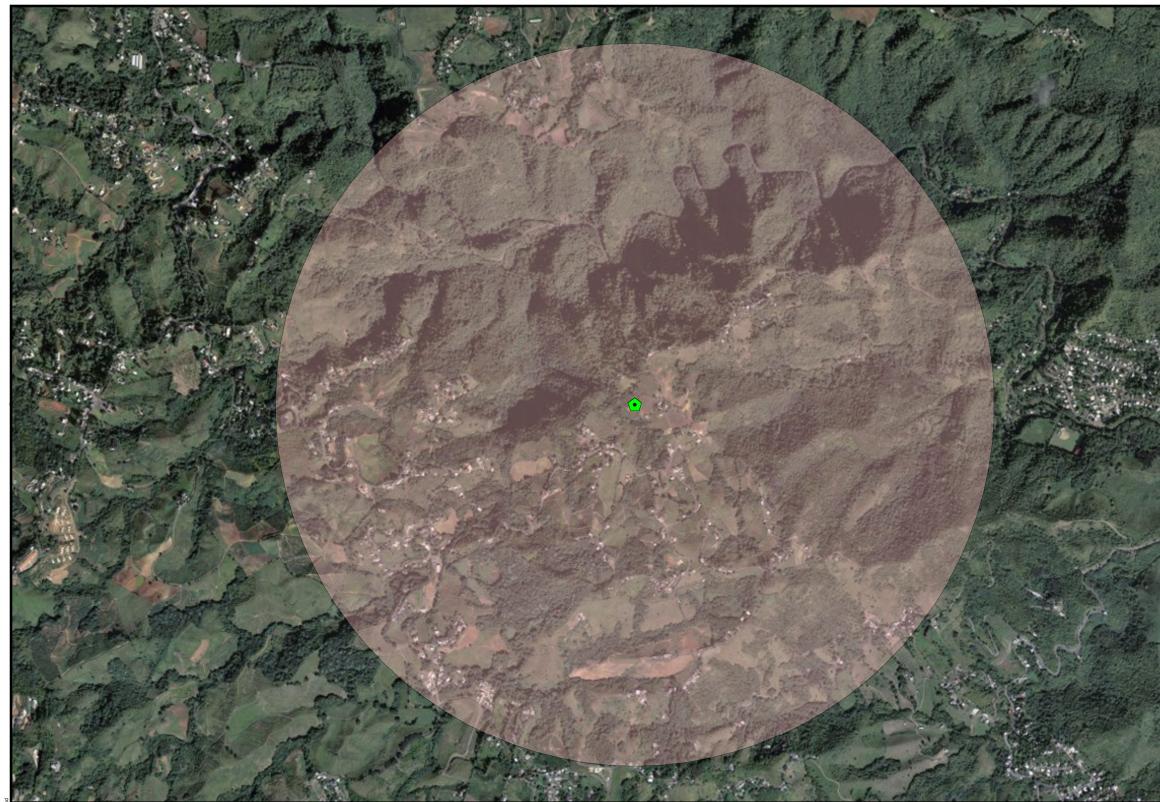




Figure 13: HISTORIC PRESERVATION APPLICANT ID: PR-RGRW-04113

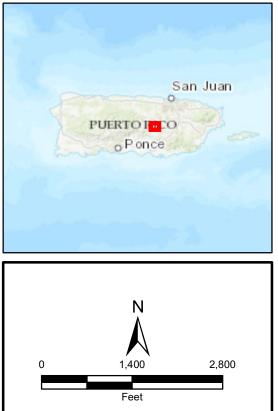
ADDRESS: Carr 749 km 2.5 Int. Bo. Quebrada Grande, PR 00794 Name of Development: Angel M Rivera Arroyo

Parcel Coordinates: 18.212098, -66.26769



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



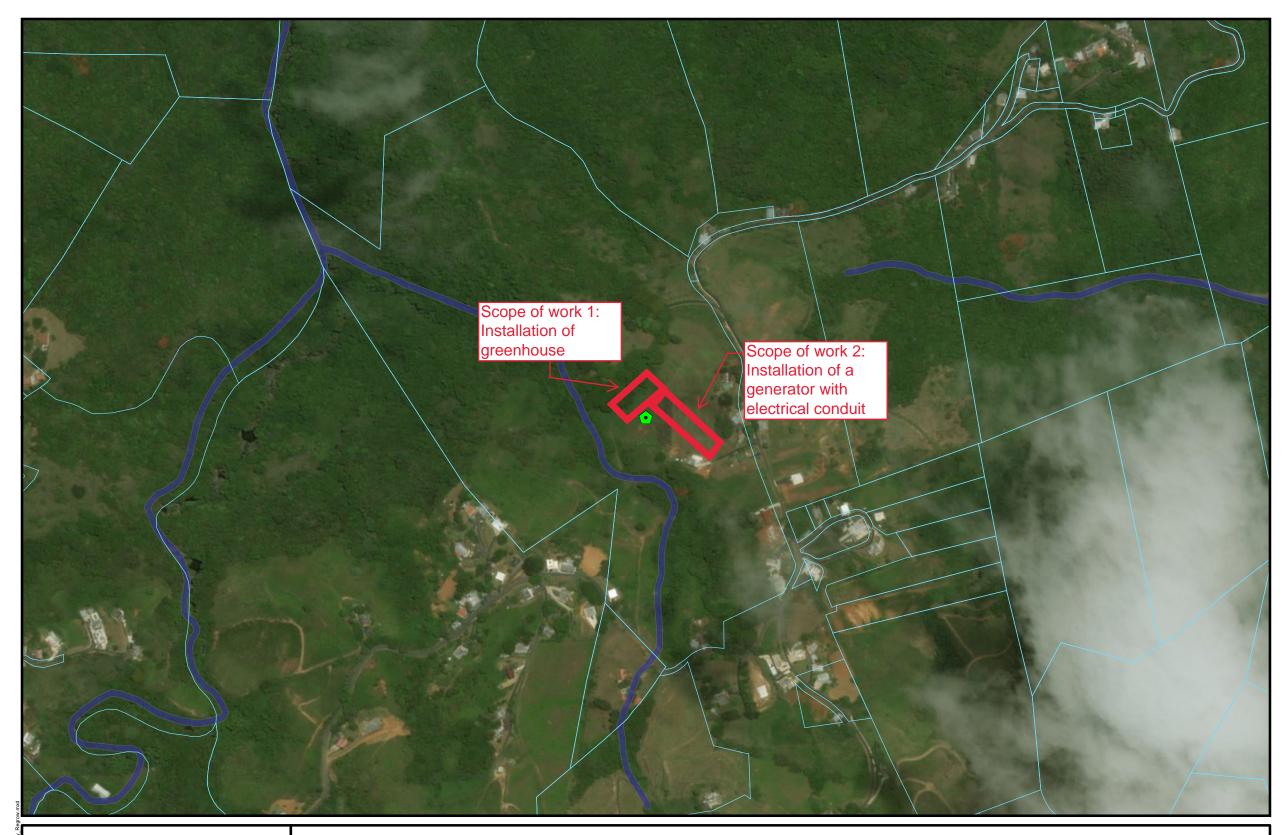




Figure 14: WETLANDS APPLICANT ID: PR-RGRW-04113

ADDRESS: Carr 749 km 2.5 Int. Bo. Quebrada Grande, PR 00794

Name of Development: Angel M Rivera Arroyo

Parcel Coordinates: 18.212098, -66.26769

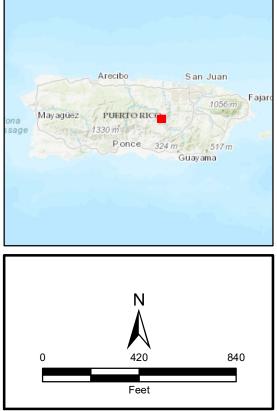
Legend

• 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



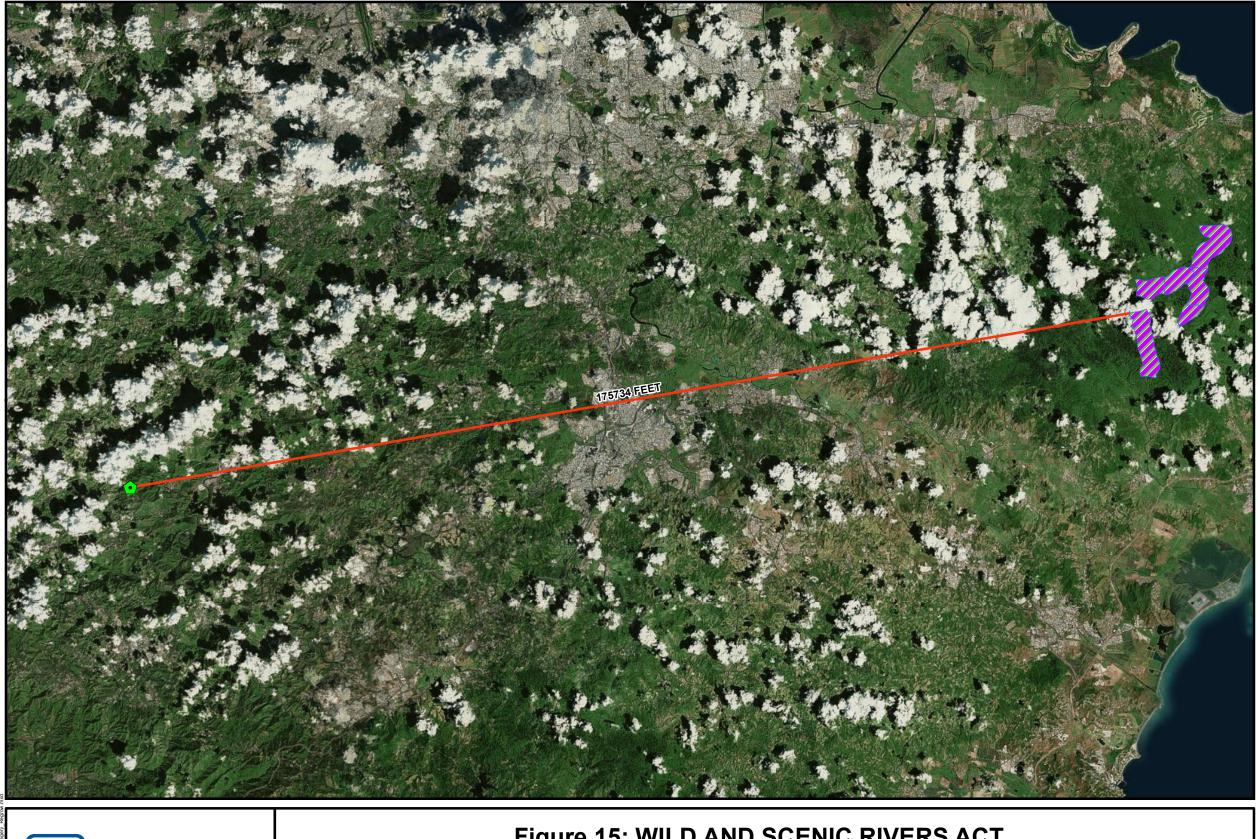




Figure 15: WILD AND SCENIC RIVERS ACT APPLICANT ID: PR-RGRW-04113

ADDRESS:Carr 749 km 2.5 Int. Bo. Quebrada Grande, PR 00794 Name of Development: Angel M Rivera Arroyo Parcel Coordinates: 18.212098, -66.26769

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

Author: TG Date: 6/29/2023

Legend Project Parcel Wild and Scenic Rivers

Distance to Nearest Wild and Scenic River in Feet: 175734 Feet







Figure 16: SLOPE AND EROSION APPLICANT ID: PR-RGRW-04113

ADDRESS: Carr 749 km 2.5 Int. Bo. Quebrada Grande, PR 00794 Name of Development: Angel M Rivera Arroyo

Parcel Coordinates: 18.212098, -66.26769



Legend

Project Parcel

Parcels

Landslide Susceptibility

- Extremely High
- Very High
- High
- Moderate
- Low



APPENDIX C

Additional Documentation

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 December 31, 2023

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

* The 1997 Primary Annual PM-2.5 NAAQS (level of 15 μg/m³) is revoked in attainment and maintenance areas for that NAAQS. For additional information see the PM-2.5 NAAQS SIP Requirements Final Rule, effective October 24, 2016. (81 FR 58009)

Change	the	State:	

PUERTO RICO 🗸	GO

Important	Notes		Downloa	d National Datas	set: dbf xls	Data	a dictionary	(PDF)
	NAAQS	Area Name	Nonattainment in Year	Redesignation to Maintenance	Classification	Whole or/ Part County	Population (2010)	State/ County FIPS Codes
PUERTO	RICO							
Arecibo Municipio	(2008)	Arecibo, PR	1112131415161718192021222	3 / /		Part	32,185	72/013
Bayamon Municipio	Sulfur Dioxide (2010)	San Juan, PR	18192021222	3 //		Part	22,921	72/021
Catano Municipio	Sulfur	San Juan, PR	18192021222	3 //		Whole	28,140	72/033
Guaynabo Municipio	PM-10	Mun. of Guaynabo, PR	929394959697989900010203040506070809	02/11/2010	Moderate	Part	90,470	72/061
Guaynabo Municipio	Sulfur Dioxide (2010)	San Juan, PR	18192021222	3 //		Part	23,802	72/061
Salinas Municipio	Sulfur	Guayama-	18192021222	3 //		Part	23,401	72/123
San Juan Municipio	Sulfur	San Juan, PR	18192021222	3 //		Part	147,963	72/127
Toa Baja Municipio	Culfue.	San Juan, PR	18192021222	3 //		Part	52,441	72/137

Important Notes

SEPA EJScreen Community Report

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

Comerío Municipio, PR

1 mile Ring Centered at 18.211719,-66.267136 Population: 1,112 Area in square miles: 3.14

A3 Landscape



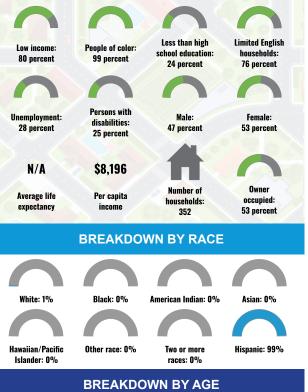
O4113
 Search Result (noint)

1.1,120
 0.03
 0.05 mi
 0.02
 0.04
 0.02
 0.04
 0.08 km
 Superclass Data MBEL George Bits
 Macro Estimate George Bits

LANGUAGES SPOKEN AT HOME

LANGUAGE	PERCENT
English	6%
Spanish	94%
Total Non-English	94%

COMMUNITY INFORMATION





LIMITED ENGLISH SPEAKING BREAKDOWN

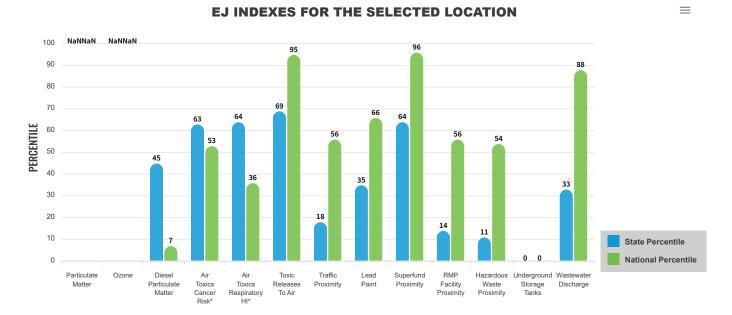
Speak Spanish	100%
Speak Other Indo-European Languages	0%
Speak Asian-Pacific Island Languages	0%
Speak Other Languages	0%

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.

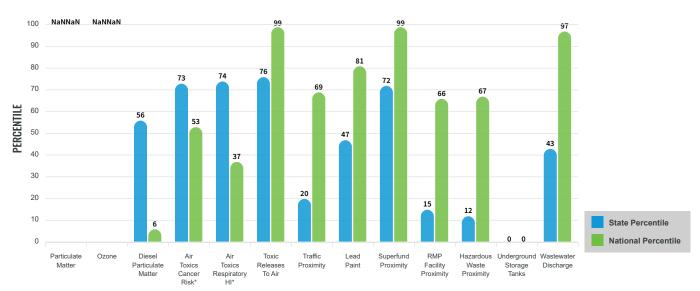
EJ INDEXES



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.

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.

 \equiv

Report for 1 mile Ring Centered at 18.211719,-66.267136

EJScreen Environmental and Socioeconomic Indicators Data

SELECTED VARIABLES	VALUE	STATE AVERAGE	PERCENTILE IN STATE	USA AVERAGE	PERCENTILE IN USA	
POLLUTION AND SOURCES	POLLUTION AND SOURCES					
Particulate Matter (µg/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 (µg/m ³)	0.0314	0.0667	42	0.261	1	
Air Toxics Cancer Risk* (lifetime risk per million)	20	20	15	25	5	
Air Toxics Respiratory HI*	0.2	0.19	17	0.31	4	
Toxic Releases to Air	1,300	4,300	66	4,600	65	
Traffic Proximity (daily traffic count/distance to road)	15	180	18	210	20	
Lead Paint (% Pre-1960 Housing)	0.081	0.16	46	0.3	32	
Superfund Proximity (site count/km distance)	0.1	0.15	62	0.13	68	
RMP Facility Proximity (facility count/km distance)	0.066	0.47	12	0.43	16	
Hazardous Waste Proximity (facility count/km distance)	0.081	0.76	10	1.9	16	
Underground Storage Tanks (count/km ²)	0	1.7	0	3.9	0	
Wastewater Discharge (toxicity-weighted concentration/m distance)	0.0032	2.3	48	22	58	
SOCIOECONOMIC INDICATORS						
Demographic Index	89%	83%	58	35%	98	
Supplemental Demographic Index	51%	43%	71	14%	99	
People of Color	99%	96%	23	39%	96	
Low Income	80%	70%	59	31%	97	
Unemployment Rate	28%	15%	84	6%	98	
Limited English Speaking Households	76%	67%	64	5%	99	
Less Than High School Education	24%	21%	60	12%	86	
Under Age 5	7%	4%	85	6%	68	
Over Age 64	16%	22%	26	17%	52	
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 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: <u>https://www.epa.gov/haps/air-toxics-data-update</u>.

Sites reporting to EPA within defined area:

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

Other community features within defined area:

Schools)
Hospitals C)
Places of Worship C)

Other environmental data:

Air Non-attainment	No
Impaired Waters	Yes

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

Report for 1 mile Ring Centered at 18.211719,-66.267136

EJScreen Environmental and Socioeconomic Indicators Data

HEALTH INDICATORS					
INDICATOR	HEALTH 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	21.6%	21.6%	48	13.4%	89

CLIMATE INDICATORS					
INDICATOR	HEALTH 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	HEALTH VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Broadband Internet	34%	32%	59	14%	92
Lack of Health Insurance	2%	7%	8	9%	15
Housing Burden	No	N/A	N/A	N/A	N/A
Transportation Access	No	N/A	N/A	N/A	N/A
Food Desert	No	N/A	N/A	N/A	N/A

Footnotes

Report for 1 mile Ring Centered at 18.211719,-66.267136

APPENDIX D

Endangered Species



Date: November 10, 2023

Applicant ID: PR-RGRW-04113 Street Address: Carr 749 km 2.5 Int. Bo. Quebrada Grande Municipality: Barranquitas

Subject – Endangered Species No Effect Determination for PR-RGRW-04113 SOW 1

Tetra Tech conducted a site-specific review of endangered species 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 located at Carr. PR-406 Km 3.8 Int. Bo. Anones, in the Municipality of Barranquitas, Puerto Rico (Parcel ID# 247-000-004-30).

The proposed project is for the purchase and installation of a greenhouse at coordinates 18.212098, -66.267690. The proposed greenhouse will be a metal structure covered with plastic and Saran sheet that has an approximate footprint of 70-foot (ft) x 30 ft and be used to grow peppers. Water connection to the new greenhouse will be achieved above-ground using 170 ft of PVC tube pipe. The power for the water pump will be provided by connecting the pump to the new generator (See **Endangered Species No Effect Determination for PR-RGRW-04113 SOW 2)** with an approximately 375 ft long underground electric conduit to be installed at a depth of 3 ft.

The proposed project area is located in a grassy planted area, within a cleared and maintained field. There are residences to the east and south of the proposed project area. A forested area is located to the west, outside of the proposed project area. No trees will be removed during this project.

The National Wetlands Inventory indicated that no wetlands are located within the proposed project area (Figure 14). The proposed project will not affect any wetlands.

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:

Species	Status
Puerto Rican Plain Pigeon (Columba inornate wetmorei)	Endangered
Puerto Rican Boa (Chilabothrus inornatus)	Endangered

No Critical Habitats were noted within the project area (Figure 10). Based on site review and site photos, no suitable habitat was found within the proposed project area for the listed species. 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:



Species	Effect Determination	Conservation Measures to be implemented (if needed)
Puerto Rican Plain Pigeon (Columba inornate wetmorei)	No Effect	No Conservation Measures
Puerto Rican Boa (Chilabothrus inornatus)	No Effect	No Conservation Measures

A 'No Effect' determination has been made based on the lack of suitable habitat for the listed species, as well as previous disturbance and current land use of the proposed project area.

If a Puerto Rican Plain Pigeon is found within any of the working or construction areas, activities should stop at that area and information recorded. Designated personnel shall immediately contact the Puerto Rico Department of Natural and Environmental Resources (PRDNER) Rangers for additional directions (PRDNER phone #s: ((787) 724-5700, (787) 230-5550, (787) 771-1124).

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.

Attachments:

IPaC Resource List

Shelby McDowell

Shelby McDowell

B.S. Biologist, Tetra Tech

Type text here

IPaC resource list

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

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

Location

Comerío County, Puerto Rico



Local office

Caribbean Ecological Services Field Office

- **\$** (787) 834-1600
- (787) 851-7440
- CARIBBEAN_ES@FWS.GOV

IPaC: Explore Location resources

NOTFORCONSULTATIO

MAILING ADDRESS Post Office Box 491 Boqueron, PR 00622-0491

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

https://ipac.ecosphere.fws.gov/location/GQU4KT52UBE3FDUPL27N4G3RYQ/resources

Endangered species

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

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

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

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

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

Listed species¹ and their critical habitats are managed by the <u>Ecological Services Program</u> of the U.S. Fish and Wildlife Service (USFWS) and the fisheries division of the National Oceanic and Atmospheric Administration (NOAA Fisheries²).

Species and critical habitats under the sole responsibility of NOAA Fisheries are **not** shown on this list. Please contact <u>NOAA Fisheries</u> for <u>species under their jurisdiction</u>.

1. Species listed under the <u>Endangered Species Act</u> are threatened or endangered; IPaC also shows species that are candidates, or proposed, for listing. See the <u>listing status page</u> for more information. IPaC only shows species that are regulated by USFWS (see FAQ). <u>NOAA Fisheries</u>, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

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

Birds

NAME	STATUS
Puerto Rican Plain Pigeon Columba inornata wetmorei Wherever found No critical habitat has been designated for this species. <u>https://ecos.fws.gov/ecp/species/7955</u>	Endangered
Reptiles NAME	STATUS
Puerto Rican Boa Chilabothrus inornatus Wherever found No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/6628	Endangered
Critical habitats	

Critical habitats

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

There are no critical habitats at this location.

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

Bald & Golden Eagles

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

Additional information can be found using the following links:

- Eagle Managment https://www.fws.gov/program/eagle-management
- Measures for avoiding and minimizing impacts to birds <u>https://www.fws.gov/library/collections/avoiding-and-minimizing-incidental-take-migratory-birds</u>
- Nationwide conservation measures for birds <u>https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf</u>
- Supplemental Information for Migratory Birds and Eagles in IPaC <u>https://www.fws.gov/media/supplemental-information-migratory-birds-and-bald-and-golden-eagles-may-occur-project-action</u>

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

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

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

The Migratory Bird Resource List is comprised of USFWS <u>Birds of Conservation Concern (BCC)</u> and other species that may warrant special attention in your project location.

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

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

What if I have eagles on my list?

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

Migratory birds

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

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

- 1. The Migratory Birds Treaty Act of 1918.
- 2. The <u>Bald and Golden Eagle Protection Act</u> of 1940.

Additional information can be found using the following links:

- Eagle Management https://www.fws.gov/program/eagle-management
- Measures for avoiding and minimizing impacts to birds <u>https://www.fws.gov/library/collections/avoiding-and-minimizing-incidental-take-migratory-birds</u>
- Nationwide conservation measures for birds <u>https://www.fws.gov/sites/default/files/</u> <u>documents/nationwide-standard-conservation-measures.pdf</u>
- Supplemental Information for Migratory Birds and Eagles in IPaC <u>https://www.fws.gov/media/supplemental-information-migratory-birds-and-bald-and-golden-eagles-may-occur-project-action</u>

The <u>data</u> in this location indicates there are no migratory <u>birds of</u> <u>conservation concern</u> expected to occur in this area.

There may be migratory birds in your project area, but we don � � � t have any survey data available to provide further direction. For additional information, please refer to the links above for recommendations to minimize impacts to migratory birds or contact your local FWS office.

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

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

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

IPaC: Explore Location resources

The Migratory Bird Resource List is comprised of USFWS <u>Birds of Conservation Concern (BCC)</u> and other species that may warrant special attention in your project location.

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

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

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

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

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

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

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

What are the levels of concern for migratory birds?

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

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

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

Details about birds that are potentially affected by offshore projects

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

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

What if I have eagles on my list?

If your project has the potential to disturb or kill eagles, you may need to <u>obtain a permit</u> to avoid violating the Eagle Act should such impacts occur.

Proper Interpretation and Use of Your Migratory Bird Report

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

Facilities

National Wildlife Refuge lands

Any activity proposed on lands managed by the <u>National Wildlife Refuge</u> system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns. There are no refuge lands at this location.

Fish hatcheries

There are no fish hatcheries at this location.

Wetlands in the National Wetlands Inventory (NWI)

Impacts to <u>NWI wetlands</u> 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>U.S. Army Corps of</u> <u>Engineers District</u>.

Wetland information is not available at this time

This can happen when the National Wetlands Inventory (NWI) map service is unavailable, or for very large projects that intersect many wetland areas. Try again, or visit the <u>NWI map</u> to view wetlands at this location.

Data limitations

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

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

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

Data exclusions

IPaC: Explore Location resources

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

Data precautions

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

OTFORCONSULT



Date: November 10, 2023

Applicant ID: PR-RGRW-04113 Street Address: Carr 749 km 2.5 Int. Bo. Quebrada Grande Municipality: Barranquitas

Subject – Endangered Species No Effect Determination for PR-RGRW-04113 SOW 2

Tetra Tech conducted a site-specific review of endangered species 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 located at Carr. PR-406 Km 3.8 Int. Bo. Anones, in the Municipality of Barranquitas, Puerto Rico (Parcel ID# 247-000-004-30).

The proposed project is for the purchase and installation of a standby generator and construction of a concrete pad, located at coordinates 18.211622, -66.267029. This generator will provide power to the pump of an existing water well located at coordinates 18.212542, -66.267500 that will be used to supply water to the new greenhouse (See Endangered Species No Effect Determination for PR-RGRW-04113 SOW 1).

The proposed project area is located near the applicant's residence, on a flat, mowed surface. No trees will be removed during this project.

The National Wetlands Inventory indicated that no wetlands are located within the proposed project area (Figure 14). The proposed project will not affect any wetlands.

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:

Species	Status	
Puerto Rican Plain Pigeon (Columba inornate wetmorei)	Endangered	
Puerto Rican Boa (Chilabothrus inornatus)	Endangered	

No Critical Habitats were noted within the project area (Figure 10). Based on site review and site photos, no suitable habitat was found within the proposed project area for the listed species. 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:

Species	Effect Determination	Conservation Measures to be implemented (if needed)
Puerto Rican Plain Pigeon (Columba inornate wetmorei)	No Effect	No Conservation Measures
Puerto Rican Boa (Chilabothrus inornatus)	No Effect	No Conservation Measures

A 'No Effect' determination has been made based on the lack of suitable habitat for the listed species, as well as previous disturbance and current land use of the proposed project area.

If a Puerto Rican Plain Pigeon is found within any of the working or construction areas, activities should stop at that area and information recorded. Designated personnel shall immediately contact the Puerto Rico Department of Natural and Environmental Resources (PRDNER) Rangers for additional directions (PRDNER phone #s: ((787) 724-5700, (787) 230-5550, (787) 771-1124).

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.

<u>Attachments:</u> IPaC Resource List

Shelby McDowell

Shelby McDowell

B.S. Biologist, Tetra Tech

IPaC resource list

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

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

Location

Comerío County, Puerto Rico



Local office

Caribbean Ecological Services Field Office

- **\$** (787) 834-1600
- (787) 851-7440
- CARIBBEAN_ES@FWS.GOV

IPaC: Explore Location resources

NOTFORCONSULTATIO

MAILING ADDRESS Post Office Box 491 Boqueron, PR 00622-0491

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

https://ipac.ecosphere.fws.gov/location/JZ664XYDAJB4ZMULZTXPDYLXRY/resources

Endangered species

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

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

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

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

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

Listed species¹ and their critical habitats are managed by the <u>Ecological Services Program</u> of the U.S. Fish and Wildlife Service (USFWS) and the fisheries division of the National Oceanic and Atmospheric Administration (NOAA Fisheries²).

Species and critical habitats under the sole responsibility of NOAA Fisheries are **not** shown on this list. Please contact <u>NOAA Fisheries</u> for <u>species under their jurisdiction</u>.

1. Species listed under the <u>Endangered Species Act</u> are threatened or endangered; IPaC also shows species that are candidates, or proposed, for listing. See the <u>listing status page</u> for more information. IPaC only shows species that are regulated by USFWS (see FAQ). <u>NOAA Fisheries</u>, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

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

Birds

NAME	STATUS
Puerto Rican Plain Pigeon Columba inornata wetmorei Wherever found No critical habitat has been designated for this species. <u>https://ecos.fws.gov/ecp/species/7955</u>	Endangered
Reptiles NAME	STATUS
Puerto Rican Boa Chilabothrus inornatus Wherever found No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/6628	Endangered
Critical habitats	

Critical habitats

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

There are no critical habitats at this location.

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

Bald & Golden Eagles

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

Additional information can be found using the following links:

- Eagle Managment https://www.fws.gov/program/eagle-management
- Measures for avoiding and minimizing impacts to birds <u>https://www.fws.gov/library/collections/avoiding-and-minimizing-incidental-take-migratory-birds</u>
- Nationwide conservation measures for birds <u>https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf</u>
- Supplemental Information for Migratory Birds and Eagles in IPaC <u>https://www.fws.gov/media/supplemental-information-migratory-birds-and-bald-and-golden-eagles-may-occur-project-action</u>

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

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

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

The Migratory Bird Resource List is comprised of USFWS <u>Birds of Conservation Concern (BCC)</u> and other species that may warrant special attention in your project location.

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

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

What if I have eagles on my list?

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

Migratory birds

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

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

- 1. The Migratory Birds Treaty Act of 1918.
- 2. The <u>Bald and Golden Eagle Protection Act</u> of 1940.

Additional information can be found using the following links:

- Eagle Management https://www.fws.gov/program/eagle-management
- Measures for avoiding and minimizing impacts to birds <u>https://www.fws.gov/library/collections/avoiding-and-minimizing-incidental-take-migratory-birds</u>
- Nationwide conservation measures for birds <u>https://www.fws.gov/sites/default/files/</u> <u>documents/nationwide-standard-conservation-measures.pdf</u>
- Supplemental Information for Migratory Birds and Eagles in IPaC <u>https://www.fws.gov/media/supplemental-information-migratory-birds-and-bald-and-golden-eagles-may-occur-project-action</u>

The <u>data</u> in this location indicates there are no migratory <u>birds of</u> <u>conservation concern</u> expected to occur in this area.

There may be migratory birds in your project area, but we don � � � t have any survey data available to provide further direction. For additional information, please refer to the links above for recommendations to minimize impacts to migratory birds or contact your local FWS office.

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

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

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

IPaC: Explore Location resources

The Migratory Bird Resource List is comprised of USFWS <u>Birds of Conservation Concern (BCC)</u> and other species that may warrant special attention in your project location.

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

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

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

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

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

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

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

What are the levels of concern for migratory birds?

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

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

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

Details about birds that are potentially affected by offshore projects

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

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

What if I have eagles on my list?

If your project has the potential to disturb or kill eagles, you may need to <u>obtain a permit</u> to avoid violating the Eagle Act should such impacts occur.

Proper Interpretation and Use of Your Migratory Bird Report

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

Facilities

National Wildlife Refuge lands

Any activity proposed on lands managed by the <u>National Wildlife Refuge</u> system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns. There are no refuge lands at this location.

Fish hatcheries

There are no fish hatcheries at this location.

Wetlands in the National Wetlands Inventory (NWI)

Impacts to <u>NWI wetlands</u> 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>U.S. Army Corps of</u> <u>Engineers District</u>.

Wetland information is not available at this time

This can happen when the National Wetlands Inventory (NWI) map service is unavailable, or for very large projects that intersect many wetland areas. Try again, or visit the <u>NWI map</u> to view wetlands at this location.

Data limitations

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

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

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

Data exclusions

IPaC: Explore Location resources

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

Data precautions

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

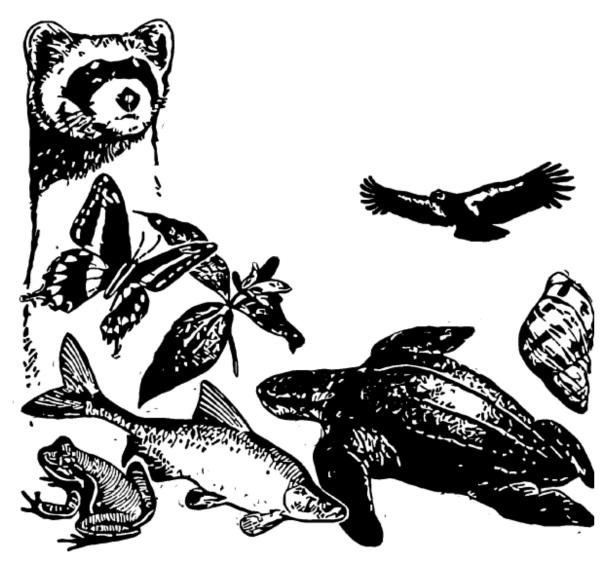
OTFORCONSULTAT

U.S. Fish & Wildlife Service

USFWS Puerto Rican boa Conservation Measures

Puerto Rican Boa

Generated September 11, 2023 01:39 PM UTC, IPaC v6.97.0-rc3



IPaC - Information for Planning and Consultation (https://ipac.ecosphere.fws.gov/): A project planning tool to help streamline the U.S. Fish and Wildlife Service environmental review process.

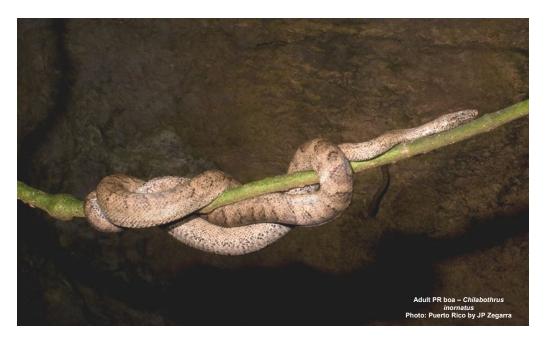


U.S. FISH AND WILDLIFE SERVICE CARIBBEAN ECOLOGICAL SERVICES FIELD OFFICE

Conservation Measures for the Puerto Rican boa (Chilabothrus inornatus)

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

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



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

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

Conservation Measures:

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

- 7. If a PR boa is found within any of the working or construction areas, activities should stop at that area and information recorded (see #6). Do not capture the boa. If boas need to be moved out of harm's way, designated personnel shall immediately contact the Puerto Rico Department of Natural and Environmental Resources (PRDNER) Rangers for safe capture and relocation of the animal (PRDNER phone #s: ((787) 724-5700, (787) 230-5550, (787) 771-1124). If immediate relocation is not an option, project-related activities at this area must stop until the boa moves out of harm's way on its own. Activities at other work sites, where no boas have been found after surveying the area, may continue.
- 8. If a PR boa is captured by the PRDNER, record the name of the PRDNER staff and information on where the PR boa will be taken. This information should be reported to the Service.
- 9. Measures should be taken to avoid and minimize PR boa casualties by heavy machinery or motor vehicles being used on site. Any heavy machinery left on site (staging) or near potential PR boa habitat (within 50 meters of potential boa habitat), needs to be thoroughly inspected each morning before work starts to ensure that no boas have sheltered within engine compartments or other areas of the equipment. If PR boas are found within vehicles or equipment, do not capture the animal and let it move on its own or call PRDNER Rangers for safe capture and relocation of the animal (see #7). If not possible, the animal should be left alone until it leaves the vehicle on its own.
- 10. PR boas may seek shelter in debris piles. Measures should be taken to avoid and minimize boa casualties associated with sheltering in debris piles as a result of project activities. Debris piles should be placed far away from forested areas. Prior to moving, disposing or shredding, debris piles should be carefully inspected for the presence of boas. If debris piles will be left on site, we recommend they be placed in areas that will not be disturbed in the future.
- 11. If a dead PR boa is found, immediately cease all work in that area and record the information accordingly (see #6). If the PR boa was accidentally? killed as part of the project actions, please include information on what conservation measures had been implemented and what actions that will be taken to avoid further killings. A dead boa report should be sent by email (see contacts below) to the Service within 48 hours of the event.
- 12. Projects must comply with all state laws and regulations. Please contact the PRDNER for further guidance.

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

- Marelisa Rivera, Deputy Field Supervisor
 - Email: <u>marelisa rivera@fws.gov</u>
 - Office phone (786) 244-0081 or mobile (305) 304-1814
- José Cruz-Burgos, Endangered Species Coordinator
 - Email: jose cruz-burgos@fws.gov
 - Office phone (786) 244-0081 or mobile (305) 304-1386

Guidelines for Puerto Rican Plain Pigeon

The Puerto Rican plain pigeon is a large pigeon about the size and shape of a domestic pigeon. At a distance the species appears pale blue-gray. The head, hindneck, breast, and the top central part of the folded wing are washed with a wine color. The wing coverts are margined with white. Legs and feet are dark red. A variety of fruits and seeds, and livestock feed provide nourishment for this species. Approximately 70 percent of the foods come from tree branches, and 30 percent from the ground. Principal foods at Cidra are royal palm (Roystonea borinquena); mountain immortelle (Erythrina poeppigiana); West Indies trema (Trema lamarckiana); and white prickle (Zanthoxylum martinicense). Water is usually taken from the axils of bromeliads or from waterretaining blossoms of the African tulip-tree. Nesting occurs primarily in bamboo groves and the hardwood canyons of Cidra.

- For any project activity that involves construction or tree-disturbing activities, all construction workers will be required to participate in environmental awareness training. The training will educate workers on: (a) special-status species that may occur in the work area, (b) procedures to follow in the event a species is observed, and (c) other environmental BMPs and emergency spill response protocols.
- 2. All non-emergency work activities will be confined to daylight hours (i.e., sunrise to sunset), unless necessary for assessing or protecting biological resources.
- 3. Whenever possible, impacts to native nesting birds will be avoided by not conducting Project activities that involve clearing of vegetation, generation of mechanical noise, or tree disturbance during the typical breeding season for this pigeon (late January to early July), if the paigeon is determined to be present.
- 4. If Project activities must be conducted during the nesting bird season, the Contractor will conduct surveys for nesting birds within a 1,000-ft radius of the construction area. If nests are detected, the Contractor will notify the DNER and establish buffers around nests that are sufficient to ensure that breeding is not likely to be disrupted or adversely impacted by construction. Buffers around active nests will be a minimum of 250 feet, unless a qualified biologist determines that smaller buffers would be sufficient to avoid impacts to nesting birds. Factors to be considered for determining buffer size will include: the presence of natural buffers provided by vegetation or topography; nest height; locations of foraging territory; and baseline levels of noise and human activity. Buffers will be maintained until young have fledged or the nests become inactive.
- If a pigeon is found within any of the working or construction areas, activities should stop at that area and information recorded. Designated personnel shall immediately contact the Puerto Rico Department of Natural and Environmental Resources (PRDNER) Rangers for additional directions (PRDNER phone #s: ((787) 724-5700, (787) 230-5550, (787) 771-1124).

- 6. Designated critical habitat within the vicinity of project activities will be identified. All Proposed Project actions will be designed to avoid direct and indirect adverse modifications to these areas. Minimization measures, such as establishing and maintaining buffers around areas of designated critical habitat will be implemented in the event that avoidance is not feasible.
- 7. If critical habitat may be adversely modified by the implementation of Proposed Project actions, the area to be modified will be evaluated by a qualified biologist to determine the potential magnitude of the project effects (e.g., description of primary constituent elements present and quantification of those affected) at a level of detail necessary to satisfy applicable environmental compliance and permitting requirements. This information shall be submitted to the PRDNER as shown in Number 5 above.
- 8. Projects must comply with all state laws and regulations. Please contact PRDNER for further guidance.

APPENDIX E

SHPO Consultation



STATE HISTORIC PRESERVATION OFFICE

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

November 22, 2023

Lauren Bair Poche

HORNE- Architectural Historian Manager 10000 Perkins Rowe, Suite 610 Bldg G Baton Rouge, LA 70810

SHPO: 11-15-23-07 PUERTO RICO DISASTER RECOVERY, CDBG-DR RE-GROW PR URBAN-RURAL AGRICULTURAL RE-GROW PROGRAM, PR-RGRW-04113, ANGEL M. RIVERA ARROYO, CARR. 749 KM 2.5 INT., BO. QUEBRADA GRANDE, BARRANQUITAS, PUERTO RICO

Dear 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,

Janly aphilip

Carlos A. Rubio-Cancela State Historic Preservation Officer CARC/GMO/LGC



OFICINA ESTATAL DE CONSERVACIÓN HISTÓRICA OFICINA DEL GOBERNADOR

STATE HISTORIC PRESERVATION OFFICE

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



November 16, 2023

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

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

Section 106 NHPA Effect Determination Submittal: PR-RGRW-04113 – Angel M Rivera Arroyo – Carr 749 km 2.5 Int. Bo. Quebrada Grande, Barranquitas, Puerto Rico – *No Historic Properties Affected*

Dear Architect Rubio Cancela,

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

On behalf of PRDOH and the subrecipient, the Puerto Rico Department of Agriculture, HORNE is submitting documentation for activities proposed by Angel M Rivera Arroyo located at Carr 749 km 2.5 Int. Bo. Quebrada Grande, in the municipality of Barranquitas. The undertaking for this project includes the purchase and installation of a greenhouse (SOW-1) and a standby generator (SOW-2), and the purchase of a lawn tractor. The proposed greenhouse is a metal structure covered with plastic and Saran sheet that has an approximate footprint of 70-foot (ft) x 30 ft. The greenhouse will be supported by posts anchored approximately 2 ft into the ground. Ground clearance and leveling are anticipated as part of the secure installation of the new structure. The proposal includes the purchase and installation of a standby generator (SOW-2) on a new concrete pad measuring 5 ft x 5 ft. This generator will provide power to an existing pump at an existing water well (northeast of the proposed greenhouse location) that will be used to supply water to the new greenhouse via above-ground water lines. The



power for the water pump will be provided by connecting the pump to the new generator with an approximately 375 ft long underground electric conduit to be installed at a depth of 3 ft.

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 <u>lauren.poche@horne.com</u> or phone at 225-405-7676 with any questions or concerns.

Kindest regards, Jawa B Rock Lauren Bair Poche, M.A. Architectural Historian, EHP Senior Manager

Attachments



Subrecipient: Angel M Rivera Arroyo

Case ID: PR-RGRW-04113

City: Barranquitas

Project Location: Carr 749 km 2.5 Int. Bo. Quebrada Grande		
Project Coordinates: 18.211720, -66.267136		
TPID (Número de Catastro): 247-000-004-30		
Type of Undertaking:		
🗆 Substantial Repair		
☑ New Construction		
Construction Date (AH est.): c1975	Property Size (acres): 61.7	

SOI-Qualified Architect/Architectural Historian: Maria F. Lopez Schmid		
Date Reviewed: 10/17/2023		
SOI-Qualified Archaeologist: Roberto G. Muñoz-Pando, PhD		
Date Reviewed: 10/20/2023		

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

Project Description (Undertaking)

The scope of work (SOW) includes the purchase and installation of a greenhouse (SOW-1) and a standby generator (SOW-2), and the purchase of a lawn tractor. The proposed project site is a vacant lot with an unknown past use.

The applicant plans to purchase and install a greenhouse (SOW-1) at coordinates 18.212098, -66.267690 to produce sweet peppers. The proposed greenhouse is a metal structure covered with plastic and Saran sheet that has an approximate footprint of 70-foot (ft) x 30 ft. The greenhouse will be supported by posts anchored approximately 2 ft into the ground. Ground clearance and leveling are anticipated as part of the secure installation of the new structure.

The proposal includes the purchase and installation of a standby generator (SOW-2) to be installed at coordinates 18.211622, -66.267029 in a new concrete pad measuring 5 ft x 5 ft. This generator will provide power to an existing pump at an existing water well located at coordinates 18.212542, -66.267500 (northeast of the greenhouse location) that will be used to supply water to the new greenhouse. The power for the water pump will be provided by connecting the pump to the new generator with an approximately 375 ft long underground electric conduit to be installed at a depth of 3 ft. Water connection to the new greenhouse will be achieved using 170 ft of PVC above-ground tube pipe between the existing well and Type text here

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new greenhouse. No ground disturbance is anticipated for the installation of the aboveground water line.

Area of Potential Effects

As defined in 36 CFR §800.16(d), the area of potential effects (APE) is the geographic area or areas within which an undertaking may directly or indirectly cause changes in the character or use of historic properties if any such properties exist. Based on this definition and the nature and scope of the Undertaking, the Program has determined that the direct APE for this project is the location of the proposed concrete pad, the path of the below-ground electric line, and location of the new greenhouse; this APE includes a 15-meter buffer to allow for variation in placement, where not constrained by the landform. The visual APE is the viewshed of the proposed project.

Identification of Historic Properties - Archaeology

Existing information on previously identified historic properties has been reviewed to determine if any such properties are located within the APE of this undertaking. The review of this existing information, by a Program contracted Historic Preservation 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 within a half mile radius of the APE. In our research at the archives of the SHPO and the ICPR, no archaeological resource surveys in the area up to a half mile radius from the APE. The soil combination around the APE is Naranjito silty clay (NaF), Humatas clay (HtF), and Mucara Cay (MxF) all with 40 to 60 percent slopes. These data indicates that the probability of finding new, undisturbed, and significant archaeological sites would be low to moderate.

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 located in a rural, mountainous terrain with mature vegetation and grasslands. The property is located west of La Puntilla Comerío Road in Barranquitas that runs

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north south. A circa 1975 building is located near Scope of Work 2 (installation of concrete pad and new electric conduit). This building appears in a 1977 aerial image, shown below, which is the earliest available for the area.



Figure 1, 2 & 3. Detail of the 1977, 2015, and 2023 aerial images, showing the building on the property.

The building had a smaller footprint than it is currently. The building is a reinforced concrete house with a flat concrete roof. As it is evident by the aerial images comparing the original house shape to the current one, that the c1975 building has been extensively renovated with the addition of concrete volumes in front and the rear as well as other detached garages. All metal and glass fenestrations appear recently installed, and the design of the building is contemporary in design. These changes and additions were done starting in 2015 according to the aerial images from Google Earth have significantly changed the house to the point where it no longer resembles the c1975 house and is more of a large residence.



Figure 4 & 5. Photographs of the buildings on the property, view to the southwest and to the west.

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The building shown above **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:

o N/A

- Indirect Effect:
 - o N/A

Based on the results of our historic property identification efforts, the Program has determined 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. Nor were any previously recorded archaeological sites identified within a half mile radius of the project area. The soils around the APE have 4 to 60 percent slopes, making the probability of finding new and significant archaeological sites near the APE low to moderate. Therefore, no historic properties will be affected by the proposed project activities.

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 ReGrow Puerto Rico Program

 Section 106 NHPA Effect Determination

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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):

 \boxtimes No Historic Properties Affected

□ No Adverse Effect

Condition (if applicable):

□ Adverse Effect

Proposed Resolution (if appliable)

This Section is to be Completed by SHPO Staff Only

The Puerto Rico State Historic Preservation Office has reviewed the above information and:

□ **Concurs** with the information provided.

Does not concur with the information provided.

Comments:

Carlos Rubio-Cancela State Historic Preservation Officer

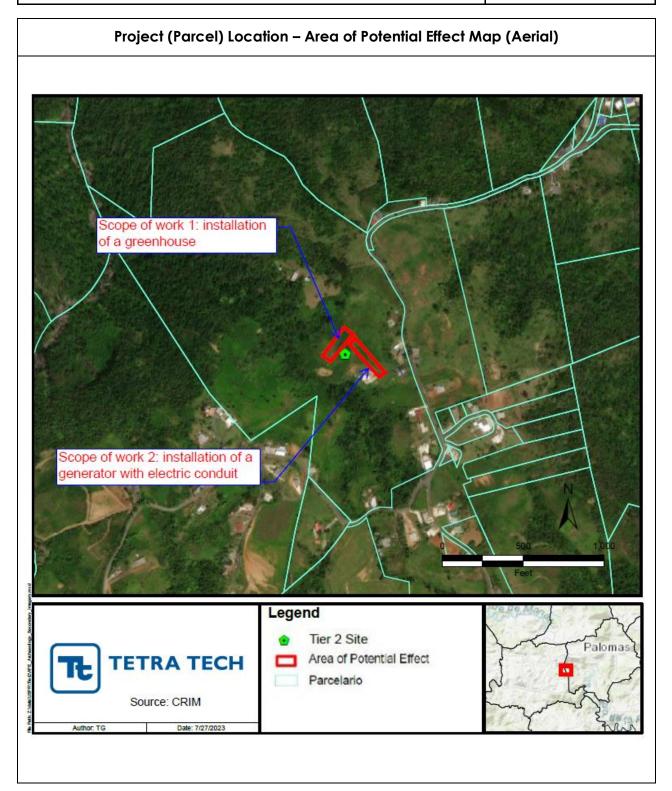
Date:



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Project (Parcel) Location - Aerial Map Legend Palomas Tier 2 Site ۲ TETRA TECH Historic Comunidades Traditional Urban Centers Source: CRIM Cultural Resource District Polygon Parcelario Date: 8/23/2023 Author: TG

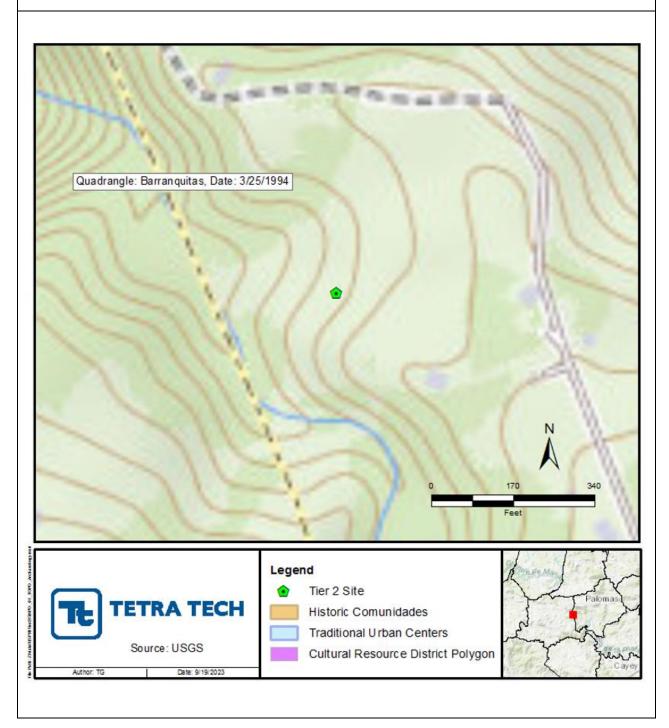


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Project (Parcel) Location - USGS Topographic Map

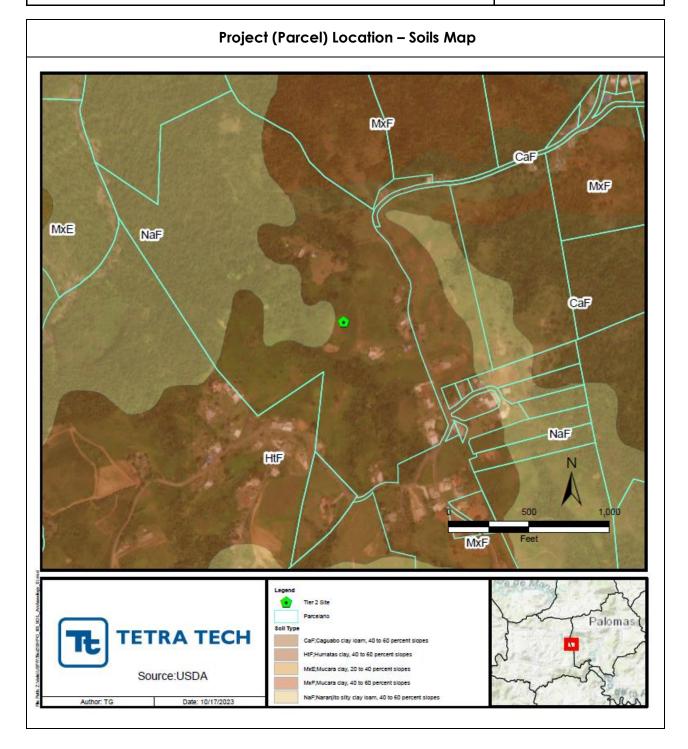




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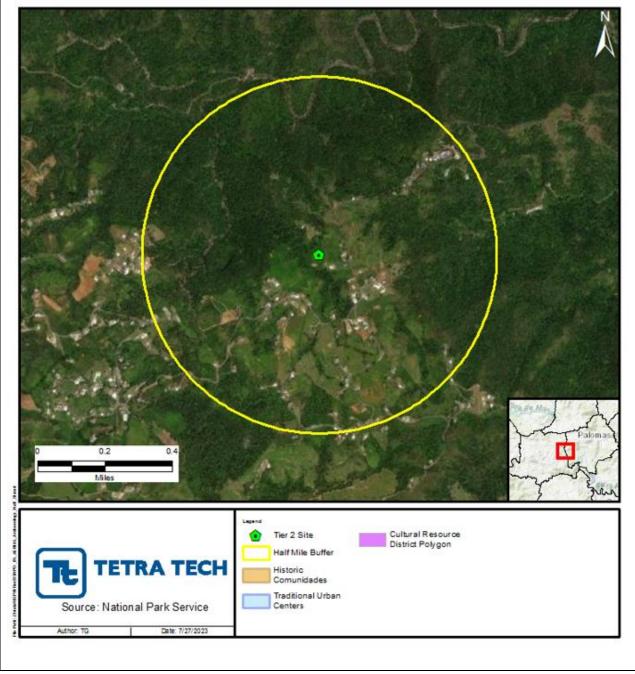
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Project (Parcel) Location with Previous Investigations - Aerial Map

Project (Parcel) Location with Previously Recorded Cultural Resources - Aerial Map



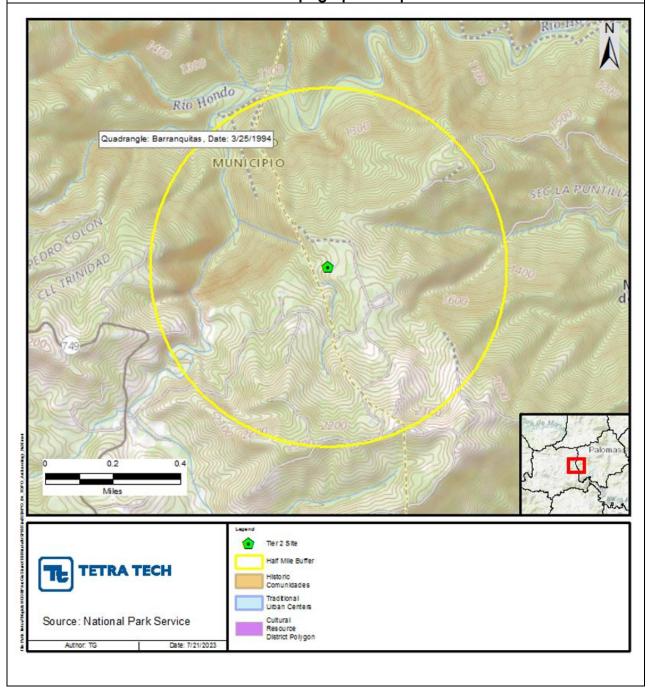


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Project (Parcel) Location with Previously Recorded Cultural Resources USGS Topographic Map





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Photo #: 1 Description (include direction): Scope of Work 1: Installation of a	
Greenhouse, view to the South.	
Date: 10/09/2023	
Photo #: 2 Description (include direction): Scope of Work 1: Installation of a	
Greenhouse, view to the Northwest.	
Date: 10/09/2023	



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Photo #: 3	Description (include direction): Scope of Work 1 : Installation of a Greenhouse, view to the West.
Date: 10/09/2023	
Photo #: 4	Description (include direction): Scope of Work 1 : Existing water well, view to the South.
Date: 10/09/2023	



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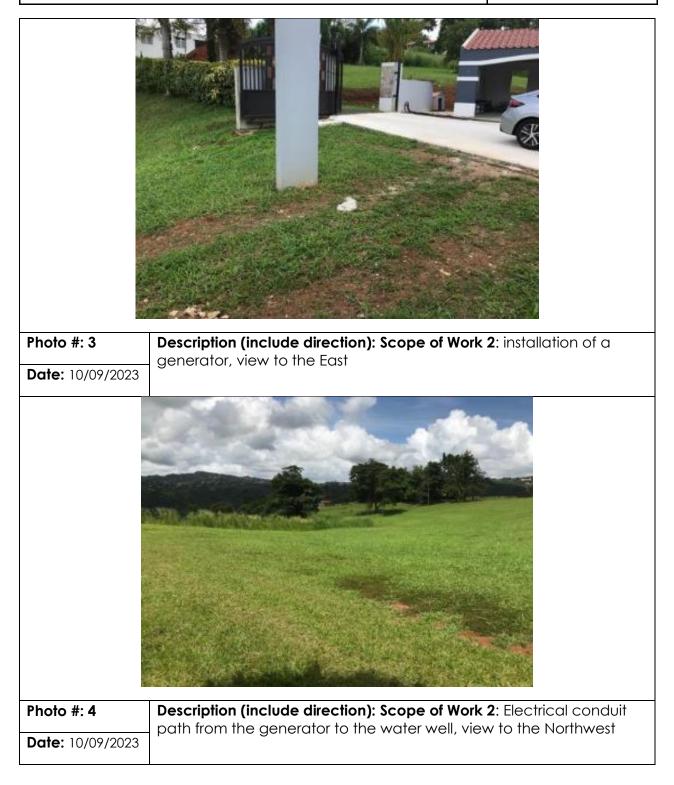
Photo #: 1 Date: 10/09/2023	Description (include direction): Scope of Work generator, view to the North	2: installation of a
Photo #: 2 Date: 10/09/2023	Description (include direction): Scope of Work : generator, view to the Northeast	2: installation of a



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October 20, 2022

Arch. Carlos A. Rubio Cancela

Executive Director State Historic Preservation Officer Cuartel de Ballajá Bldg. San Juan, Puerto Rico

Re: Authorization to Submit Documents

Dear Arch. Rubio Cancela:

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

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

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

Cordially,

Juan C Pérez Bofill, P.E. M.Eng Director of Disaster Recovery CDBG DR-MIT

CDBG-DR FUNDS I HOUSING