U.S. Department of Housing and Urban Development
451 Seventh Street, SW
Washington, DC 20410
www.hud.gov

espanol.hud.gov

Environmental Review for Activity/Project that is Categorically Excluded Subject to Section 58.5

Pursuant to 24 CFR 58.35(a)

Project Information

Project Name: PR-ESP-00230 Advanced Medical Equipment & Services Inc

Responsible Entity: Puerto Rico Department of Housing

Grant Recipient: Department of Economic Development and Commerce (DEDC)

State/Local Identifier: Puerto Rico / Bayamón, PR

Preparer: Patricia Carmenatty, Environmental Specialist
Behar Ybarra & Associates LLC
patricia.carmenatty@byaea.com
787-783-0290

Certifying Officer Name and Title: Permit and Environmental Compliance Officers:

Aldo A. Rivera Vazquez, PE - Director, Permits and Environmental Compliance Division

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

Maria T. Torres-Bregón - Permits and Environmental Compliance Manager

Permits and Environmental Compliance Specialist: Sally Z. Acevedo-Cosme, Limary Vélez Marrero, Ivelisse Lorenzo Torres, Mónica Machuca Rios, Janette I. Cambrelen, Santa Ramírez Lebrón, Abdul Feliciano Plaza, Pedro de León Rodriguez, Javier Mercado Barrera, Priscilla Toro Rivera

Consultant (if applicable): Behar Ybarra & Associates LLC

Direct Comments to: Puerto Rico Department of Housing at
comentariosambiental@vivienda.pr.gov

Project Location: Urb Miraflores 3-9 Calle 2, Bayamón PR, 00957
Coordinates: 18.376710, -66.196617
Parcel cadastral: 084-089-265-09-001

Description of the Proposed Project [24 CFR 50.21 & 58.32]**:**

The subject property is a commercial building located in Bayamón, PR serving as a medical supply store. The project is located at Urb Miraflores 3-9 Calle 2, Bayamón PR, 00957, Latitude: 18.376710, Longitude: -66.196617. A Site Map is included in Figure 1 in Appendix 1, illustrating the location of the building. The area is characterized by being urban, near family residences and commercial buildings. The nearest roads with access to the building are PR-861 and Ave. Duero.

A field visit was conducted on March 14, 2025, to document existing conditions of the project site. The Field Visit Report is included in Appendix 2. The project scope includes the installation of a photovoltaic (solar) panel system on the existing commercial building's roof and appurtenant storage system (batteries) on a lateral wall of an existing concrete room located on the building. The proposed system includes 30 Solar Panels (405 Watts) and one Tesla Powerwall 2 – 13.5kWh, part of the equipment will be privately financed by the applicant. The system will be interconnected with the LUMA Energy distribution network under the Net Metering Program. The proposed project Scope of Work quote is included in Appendix 3.

Level of Environmental Review Determination:
Categorically Excluded per 24 CFR 58.35(a), and subject to laws and authorities at §58.5: 58.35(a) [3(iii)]. In the case of non-residential structures, including commercial, industrial, and public buildings: (A) The facilities and improvements are in place and will not be changed in size or capacity by more than 20 percent; and (B) The activity does not involve a change in land use, such as from non-residential to residential, commercial to industrial, or from one industrial use to another.

Funding Information

Grant Number	HUD Program	Funding Amount
B-18-DE-72-0001	Community Development Block Grant (CDBG-DR): Electrical Power Reliability and Resilience Program (ER2) (Energy Support Incentive Program 2.0 Set-Aside)	Energy Support Incentive Program 2.0 Set-Aside - $30,000,000 set aside from ER2 Total – **$1,316,406,180.00.**

Estimated Total HUD Funded Amount: $25,882.80

Estimated Total Project Cost (HUD and non-HUD funds) [24 CFR 58.32(d)]**:** $43,138.00

Privately funded by the applicant: $17,255.20

Compliance with 24 CFR 50.4, 58.5, and 58.6 Laws and Authorities

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

Compliance Factors: Statutes, Executive Orders, and Regulations listed at 24 CFR §58.5 and §58.6	Are formal compliance steps or mitigation required?	Compliance determinations
STATUTES, EXECUTIVE ORDERS, AND REGULATIONS LISTED AT 24 CFR 50.4 & 58.6		
Airport Hazards 24 CFR Part 51 Subpart D	Yes ☐ No ☒	The site is located 42,502 feet from the nearest civil airport, Fernando Ribas Dominicci in San Juan and 66,521 feet from the nearest military airport, Luis Muñoz Marín International Airport in San Juan. This topic is in compliance with HUD's Airport Hazard Regulations without further evaluation. Refer to Airports Map Zone, Figure 2 included in Appendix 1.
Coastal Barrier Resources Coastal Barrier Resources Act, as amended by the Coastal Barrier Improvement Act of 1990 [16 USC 3501]	Yes ☐ No ☒	This project is not located in a CBRS Unit. The project is located 30,816 feet south of the nearest Coastal Barrier Resource System, PR-86P. Therefore, this project has no potential to impact on a CBRS Unit and is in compliance with the Coastal Barrier Resources Act. Refer to Coastal Barrier Resource System Map, Figure 3 included in Appendix 1.
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 ☒	As per FEMA's FIRM Panel 72000C0340H, effective April 19, 2005, this project is located within Zone X. The project does not require flood insurance or is excepted from flood insurance. The project is in compliance with the Flood Insurance section without further evaluation. Refer to Flood Insurance Rate Map, Figure 4 included in Appendix 1.

STATUTES, EXECUTIVE ORDERS, AND REGULATIONS LISTED AT 24 CFR 50.4 & 58.5		
Clean Air Clean Air Act, as amended, particularly section 176(c) & (d); 40 CFR Parts 6, 51, 93	Yes ☐ No ☒	The project is located in a non-attainment municipality; however, it is not in a non-attainment area. This project includes the installation of a photovoltaic (solar) panel system on the existing commercial building's roof and appurtenant storage system (batteries) on a lateral wall of an existing concrete room located on the building's roof located in the Municipio of Bayamon. The project activities do not create new sources of air pollution. As described, the project does not involve new construction or a change in land use to facilitate the development of public, commercial, or industrial facilities, nor does it involve five or more dwelling units. Accordingly, under HUD's environmental review procedures, the project is presumed to result in emissions below de minimis levels and is considered compliant with the Clean Air Act (CAA). The project is located 14,869 feet from the nearest Non-attainment area. The proposed project activities will not create new air emission generator sources. Furthermore, under Puerto Rico's air quality regulations, the project meets the exemption criteria outlined in Rule 206 of the RCAP (1995), Regulation No. 5300, and is therefore in compliance with the Clean Air Act and all applicable federal, state, and local air quality standards. The installation and operation of this project will have no impact and is in compliance with the Clean Air Act without further evaluation. See attached published list of Puerto Rico Nonattainment/Maintenance Status for each country by year for all criteria pollutants in Appendix 4. Refer to Clean Air Map, Figure 5 included in Appendix 1.
Coastal Zone Management	Yes ☐ No ☒	The project is located 15,949 feet from the nearest Coastal Zone Management Area and

Coastal Zone Management Act, sections 307(c) & (d)		does not affect a Coastal Zone as defined in the state Coastal Management Plan. The project is in compliance with the Coastal Zone Management Act. Refer to CZMA map, Figure 6 included in Appendix 1.
Contamination and Toxic Substances 24 CFR Part 50.3(i) & 58.5(i)(2)	Yes ☒ No ☐	This project includes the installation of a photovoltaic (solar) panel system on the existing commercial building's roof and appurtenant storage system (batteries) on a lateral wall of an existing concrete room located on the building's roof. The project site was evaluated for potential contamination by conducting a field inspection on March 14, 2025, to identify any onsite hazards including, but not limited to, soil staining, above ground storage tanks, signs of underground storage tanks, odors, hazardous debris, potential contamination regarding lead-based paint or asbestos, etc. The site inspection did not identify any onsite hazards. In addition, a desktop review of USEPA databases, NEPAssist, and other sources was conducted to determine if the project site was located near dump sites, junk yards, landfills, hazardous waste sites, or industrial sites, including USEPA National Priorities List Sites (Superfund sites), CERCLA or state equivalent sites, RCRA Corrective Action sites with release(s) or suspected release(s) requiring clean-up action and/or further investigation. The desktop review finds two sites within 3,000 feet of the project area. One site is registered as RCRA facility with no violations and one site as AIR Pollution facility. Therefore, the sites do not present a risk to the health and safety of project occupants or conflict with the intended use of the property. • LA PROVIDENCIA ESSO, REGISTRY ID: 110007815720, RD 861 KM 3.9 BUCARABONES WARD – RCRAINFO – The site is inactive. No violations identified. – 2,467 feet

		• RENE AUTO REPAIR, REGISTRY ID: 110001662077, CALLE 1, B-16– AIR – Minor Emissions. Status: OPERATING. No violations identified. – 640 feet Refer to the ECHO Reports included in Appendix 5. The lead-based paint review is subject to the Lead Safe Housing Rule (LSHR) under 24 CFR Part 35, the EPA's Renovation, Repair and Painting (RRP) Rule under 40 CFR Part 745 Subpart E, and Puerto Rico DNER Regulation 9098. A lead-based paint inspection and/or risk assessment is not required if the building was constructed after January 1, 1978. The subject property was built in circa 1965; therefore, it is required to perform a screen for lead-based paint prior to starting the work. • The work must be performed by RRP Certified Renovation Firm. • At least one RRP-Certified Renovator must be at the job site or available when work is being done. • Workers at the job site must receive on-the-job training from the Certified Renovator. • Lead Safe Work Practices are recommended if paint disturbance is "di minimis". • Lead Safe Work Practices are required if paint disturbance exceeds "di minimis" but not EPA's minor repair and maintenance threshold. • Property Risk Assessment and abatement of all lead-based paint hazards are required prior to commencing work if paint disturbance is significant. The proposed activities are minor in scope and involve limited surface penetration (e.g., drilling to mount equipment). They do not include demolition or renovation activities

		that would disturb significant quantities of ACM. The systems being installed have been consistently evaluated as non-invasive and do not trigger permitting thresholds under NESHAP. While minimal dust or particulate emissions may result from surface drilling, these emissions are expected to remain well below de minimis thresholds and do not result in the release of regulated asbestos fibers. Additionally, the program does not include new construction or land conversion. Under Puerto Rico's air quality regulations, these activities qualify for permitting exemptions under Rule 206 of the Regulation for the Control of Atmospheric Pollution (RCAP), Regulation No. 5300, confirming compliance with the Clean Air Act and all applicable federal, state, and local air quality standards. The Energy Support Incentive Program 2.0 – Set-Aside Program, funded through CDBG-DR, does not involve construction activities that would require a building or use permit. According to Planning Board Joint Regulation 9473, approved on June 16, 2023, Section 9.4.1.3.a.1 states: "Photovoltaic solar installations that are installed on the roofs of structures and whose capacity is up to one megawatt do not require a construction or use permit. Nor will a building permit be required for systems up to one hundred kilowatts above ground." As such, the proposed activities do not trigger construction permit requirements and do not involve regulated asbestos disturbance. No renovation or demolition activities that would exceed ACM thresholds are included in the program. On January 11, 2024, HUD issued Notice CPD-23-103, Departmental Policy for Addressing Radon in the Environmental Review Process, which requires the Responsible Entity (RE) to consider radon as part of the site contamination analysis for

		projects subject to HUD's contamination regulations at 24 CFR 58.5(i), unless the project qualifies for an exemption. According to the notice, radon must be addressed in environmental reviews for projects involving structures that are or will be occupied for at least four (4) hours per day. The eligible business activities under the Energy Support Incentive Program 2.0 – Set-Aside Program are expected to meet this occupancy threshold and thus would typically require radon consideration as part of the environmental review. However, there is currently no large-scale dataset available for Puerto Rico that meets HUD's standards for determining radon hazard levels. On March 6, 2024, the Puerto Rico Department of Housing (PRDOH) formally consulted with HUD to document the absence of reliable scientific data and to explain that radon testing in Puerto Rico would be impractical and infeasible. This determination was based on prior research efforts that lacked adequate laboratory support, making it difficult to obtain accurate or consistent results. Additionally, there is a limited number of trained radon testing professionals on the island, which presents another barrier to compliance with HUD's testing requirements. In response, on May 15, 2024, HUD requested that PRDOH consult with relevant agencies—including the Environmental Protection Agency (EPA), United States Geological Survey (USGS), University of Puerto Rico – Mayagüez Campus, and the Puerto Rico Department of Natural and Environmental Resources (DNER)—to further document the lack of scientific data, as outlined in Section III.C. of Notice CPD-23-103. On August 20, 2024, PRDOH conducted formal consultations with the above-mentioned agencies and submitted information requests to state and federal entities. Responses were received from the following: United States Geological Survey (USGS); Centers for Disease Control and

		Prevention (CDC); Puerto Rico Department of Health; United States Environmental Protection Agency (EPA). All responding agencies confirmed the absence of reliable, large-scale radon data for Puerto Rico and acknowledged the technical and logistical challenges associated with radon testing on the island. Based on these consultations and findings, radon testing is deemed infeasible and impracticable for the Energy Support Incentive Program 2.0 – Set-Aside Program. Therefore, no further consideration or evaluation of radon is required as part of the environmental review, in accordance with HUD Notice CPD-23-103. Supporting documentation is provided in Appendix 5. In conclusion, after reviewing the program in the context of the site contamination analysis requirements under 24 CFR 58.5(i), PRDOH has determined that radon testing is impractical and infeasible, and no further evaluation is required for radon. The project is in compliance with Contamination and Toxic Substances requirements. Refer to Contamination and Toxic Substances, Figure 7 included in Appendix 1.
Endangered Species Endangered Species Act of 1973, particularly section 7; 50 CFR Part 402	Yes ☐ No ☒	After reviewing data from the United States Fish and Wildlife Service (USFWS) Information and Planning Consultation (IPaC), the Puerto Rican boa (*Chilabothrus inornatus*) could be found in the project area. The scope of work includes the installation of a photovoltaic (solar) panel system on the existing commercial building's roof and appurtenant storage system (batteries) on a lateral wall of an existing concrete room located on the building's roof. Since the work to be carried out is limited to the roof of the structure, it does not involve any type of ground disturbance or removal of vegetation. The nature of the project, scope of work, information available, a careful analysis of the IpaC, the Caribbean Dkey in the US Fish

		and Wildlife Service's online IPaC application, and the observations during the field visit on March 14, 2025, were used to evaluate the potential impacts to federally listed species from this project. Based on the answers provided, a consistency letter was obtained for the Puerto Rican boa which determined that the proposed actions for this project would have "No Effect" (NE) for this species. The nearest Critical Habitat is 19,120 feet from the project site. Agency consultation was submitted on May 6, 2025, and response was received on May 28, 2025. The project is in compliance with the Endangered Species Act of 1973. 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 them to relocate the Boa. As established by the USFWS Puerto Rican Boa Conservation Measures Guideline. https://ipac.ecosphere.fws.gov/guideline/design/population/156/office/41430.pdf Refer to Threatened and Endangered Species Map, Figure 8 included in Appendix 1. See USFWS "No Effect" Memo and supporting documentation in Appendix 6.
Explosive and Flammable Hazards 24 CFR Part 51 Subpart C	Yes ☐ No ☒	This project includes the installation of a photovoltaic (solar) panel system on the existing commercial building's roof and appurtenant storage system (batteries) on a lateral wall of an existing concrete room located on the building's roof and will not result in increased densities, conversion to residential uses, or making a vacant building habitable. The project itself is not the development of a hazardous facility, nor will the project increase residential densities or result in land

		conversion. The project is in compliance with HUD Explosive and Flammable Hazards.
Farmlands Protection Farmland Protection Policy Act of 1981, particularly sections 1504(b) and 1541; 7 CFR Part 658	Yes ☐ No ☒	This project does not include any activities that could potentially convert agricultural land to non-agricultural use. The project is in an area designated as not prime farmland. The project is in compliance with the Farmland Protection Policy Act. Refer to Farmland Protection Map, Figure 9 included in Appendix 1.
Floodplain Management Executive Order 11988, particularly section 2(a); 24 CFR Part 55	Yes ☐ No ☒	PFIRMs in Puerto Rico was only developed for certain sections of the municipalities of Carolina, Canovanas, Loiza, San Juan, Trujillo Alto and Rio Grande. The proposed project is located in the municipality of Bayamon. Therefore, PFIRM information is not available for the area and considered in the review. As per the FEMA Advisory Based Flood Elevation Maps (ABFE), the project site is located within Zone X (area of minimal flood hazard). As the project site is not located within the FEMA-designated Special Flood Hazard Areas for the 1 percent (100-year) or 0.2 percent (500-year) flood zones, it is not classified as being within the floodplain. The project is in compliance with the HUD Floodplain Management Regulations and the Executive Order 11988. Refer to Preliminary FIRM Figure 4-A and Advisory Base Flood Elevation Map, Figure 10 included in Appendix 1.
Historic Preservation National Historic Preservation Act of 1966, particularly sections 106 and 110; 36 CFR Part 800	Yes ☐ No ☒	The State Historic Preservation Office reviewed the proposed project location in accordance with 54 U.S.C. 306108 (commonly known as Section 106 of the National Historic Preservation Act) and 36 CFR Part 800: Protection of Historic Properties. Documentation with photographs and maps was subsequently submitted to SHPO (attached Appendix 7). In response from PR SHPO dated June 17, 2025, SHPO concurred with a finding of "*No Historic Properties Affected*" within the project's Area

		of Potential Effects. The property is not considered historic or contributing to an historic district (See attached Historic map, Figure 11). Therefore, this activity is in compliance with the National Historic Preservation Act. Refer to Historic Preservation Map, Figure 11 included in Appendix 1.
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 ☒	This project includes the installation of a photovoltaic (solar) panel system on the existing commercial building's roof and appurtenant storage system (batteries) on a lateral wall of an existing concrete room located on the building's roof. The project does not include new construction for residential use or rehabilitation of an existing residential property. The site is urban developed and there will be no impact to or from the surrounding area from a noise perspective. This topic is in compliance with Noise abatement and Control without further evaluation. Refer to Noise Abatement and Control Map, Figure 12 included in Appendix 1.
Sole Source Aquifers Safe Drinking Water Act of 1974, as amended, particularly section 1424(e); 40 CFR Part 149	Yes ☐ No ☒	According to the USEPA's Source Water Protection, Sole Source Aquifer Protection Program, there are no sole source aquifers in Puerto Rico. Therefore, the proposed project site is not located within a sole source aquifer, nor will it directly or indirectly impact one. Therefore, the project is in compliance with the Safe Drinking Water Act of 1974, as amended, particularly section 1424(e); 40 C.F.R. Part 149 without further evaluation. Refer to Sole Source Aquifer Map, Figure 13 included in Appendix 1.
Wetlands Protection Executive Order 11990, particularly sections 2 and 5	Yes ☐ No ☒	The project does not involve new constructions and/or activities that may have a direct or indirect adverse impact on any on site wetlands, there are no wetlands within or in the vicinity of the project area. The closest wetland is located 1,450 feet from the Project Site. The project does not have the potential

		to impact wetlands. The project is in compliance with E.O. 11990. Refer to Wetlands Map, Figure 14 included in Appendix 1.
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 the NWSRS river. The project is located 143,714 feet from the nearest Wild and Scenic River (De la Mina River). The project is in compliance with the Wild and Scenic Rivers Act. Refer to Wild and Scenic Rivers Map, Figure 15 included in Appendix 1.

Field Inspection: March 14, 2025, by Egon Gonzalez and Patricia Carmenatty.

Summary of Findings and Conclusions: The proposed activity has been found to not have any adverse effects on the environment nor is there a requirement for further consultation with any agency. There is no environmental review topics addressed that result in the need for formal compliance steps or the requirement for mitigation.

Mitigation Measures and Conditions

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
Contamination and Toxic Substances 24 CFR Part 50.3(i) & 58.5(i)(2)	The subject property was built circa 1970; therefore, it is required to perform a screen for lead-based paint prior to starting the work. • The work must be performed by RRP Certified Renovation Firm. • At least one RRP-Certified Renovator must be at the job site or available when work is being done. • Workers at the job site must receive on-the-job training from the Certified Renovator. • Lead Safe Work Practices are recommended if paint disturbance is "di minimis". • Lead Safe Work Practices are required if paint disturbance exceeds "di minimis" but not EPA's minor repair and maintenance threshold.

	• Property Risk Assessment and abatement of all lead-based paint hazards is required prior to commencing work if paint disturbance is significant.

Determination:

☐ This categorically excluded activity/project converts to Exempt, per 58.34(a)(12) because there are no circumstances which require compliance with any of the federal laws and authorities cited at §58.5. **Funds may be committed and drawn down after certification of this part** for this (now) EXEMPT project; OR

☒ This categorically excluded activity/project cannot convert to Exempt because there are circumstances which require compliance with one or more federal laws and authorities cited at §58.5. Complete consultation/mitigation protocol requirements, **publish NOI/RROF and obtain "Authority to Use Grant Funds"** (HUD 7015.16) per Section 58.70 and 58.71 before committing or drawing down any funds; OR

☐ This project is now subject to a full Environmental Assessment according to Part 58 Subpart E due to extraordinary circumstances (Section 58.35(c)).

Preparer Signature: Date: 8/19/2025

Name/Title/Organization: Patricia Carmenatty Santiago
Environmental Specialist,
Behar Ybarra & Associates LLC

Responsible Entity Agency Official Signature:
Abdul X. Feliciano Plaza Digitally signed by Abdul X. Feliciano Plaza
Date: 2025.08.26 12:15:07 -04'00' Date: 8/26/2025

Name/Title: Abdul X. Feliciano Plaza, Permits and Environmental Specialist

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

Appendices

List of Appendices

Appendix Number	Appendix Description
1	Figures
2	Field Visit Report
3	Scope of Work Quote
4	EPA's published Summary of Nonattainment Area Population Exposure 1 Report. This is a summary of the 2010 population living in an area that is in nonattainment for at least one of the National Ambient Air Quality Standards (NAAQS). EPA's Published Status of Puerto Rico Designated Areas. This is a summary of Puerto Rico's designated areas by NAAQS and year
5	RADON - Memorandum to File and Supporting documentation
6	USFWS "No Effect" Memo and supporting documentation
7	Section 106 Consultation Package

Appendix 1: Figures

List of Figures

Figure Number	Appendix 1 Description
1	Location: Aerial Map
2	Airports Map
3	Coastal Barrier Resource System Map
4	Flood Insurance Rate Map
4-A	Preliminary Flood Insurance Rate Map
5	Clean Air Map
6	Coastal Zone Management Map
7	Toxic and Hazardous Facilities Map
8	Threatened and Endangered Species Map
9	Farmland Protection Map
10	Advisory Base Flood Elevation Map
11	Historic Preservation Map
12	Noise Abatement and Control Map
13	Sole Source Aquifer
14	Wetlands Map
15	Wild and Scenic Rivers Map

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554 Calle Perseo, Suite J-3, San Juan, P.R. 00920 Tel.(787)783-0290

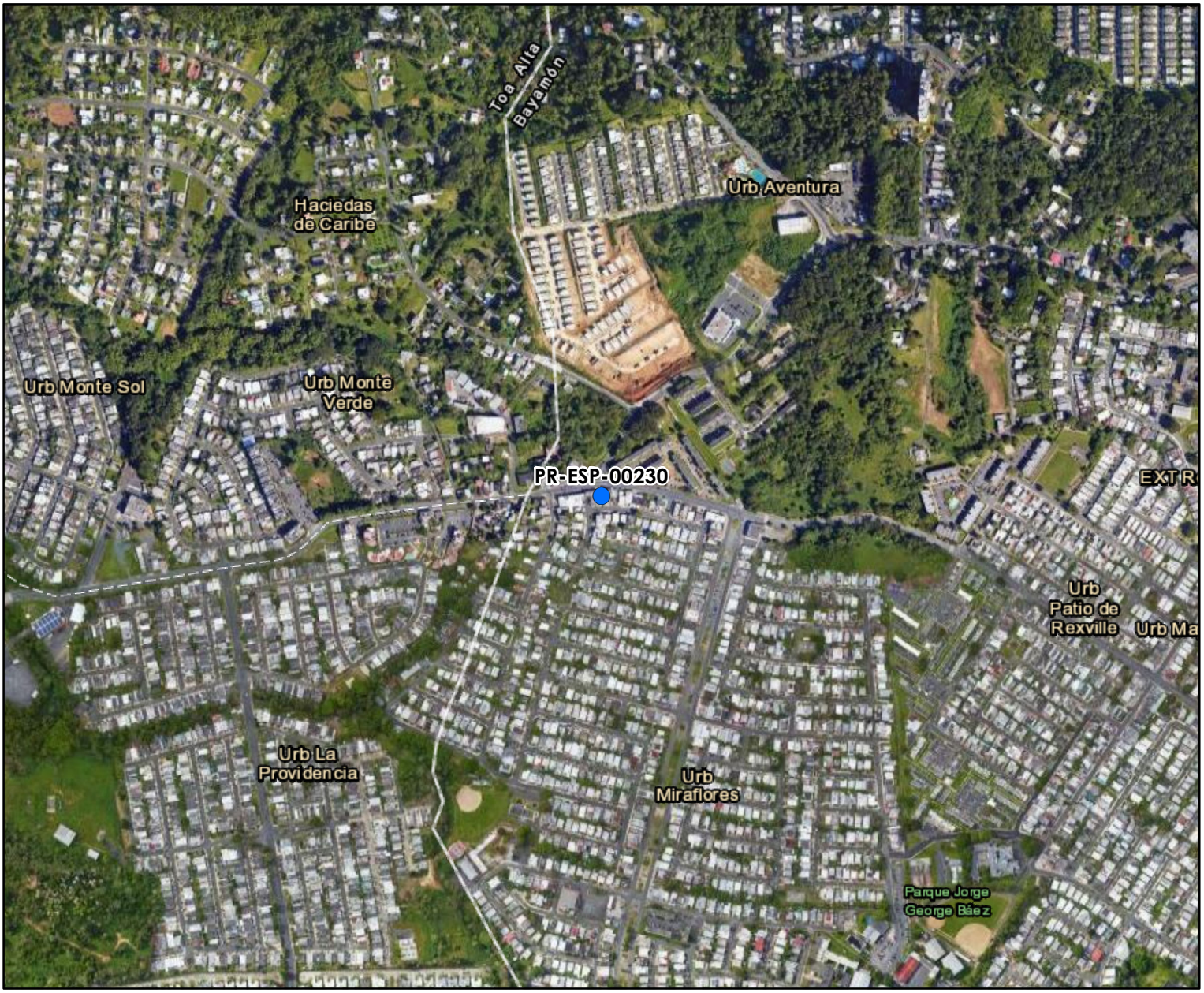
Application ID: PR-ESP-00230

Figure 1

Location: Aerial Map

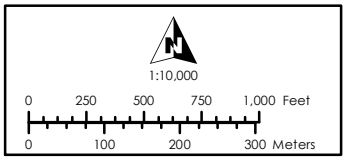
Electrical Power Reliability and Resilience Program (ER2)

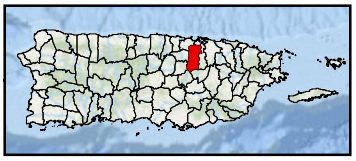
Advanced Medical Equipment & Services Inc.
Urb. Miraflores 3-9 Calle 2,
Bayamón PR 00657
Catastro: 084-089-265-09-001
Lat: 18.376710, Lon: -66.196617



Legend:

- PR-ESP-00230





Service Layer Credits:
Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community
Esri, Garmin, GEBCO, NOAA NGDC, and other contributors

Source:
Centro de Recaudación de Ingresos Municipales (CRIM)
https://catastro.crimpr.net/cdprpc/

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Figure 2

Airports Map

Electrical Power Reliability and Resilience Program (ER2)

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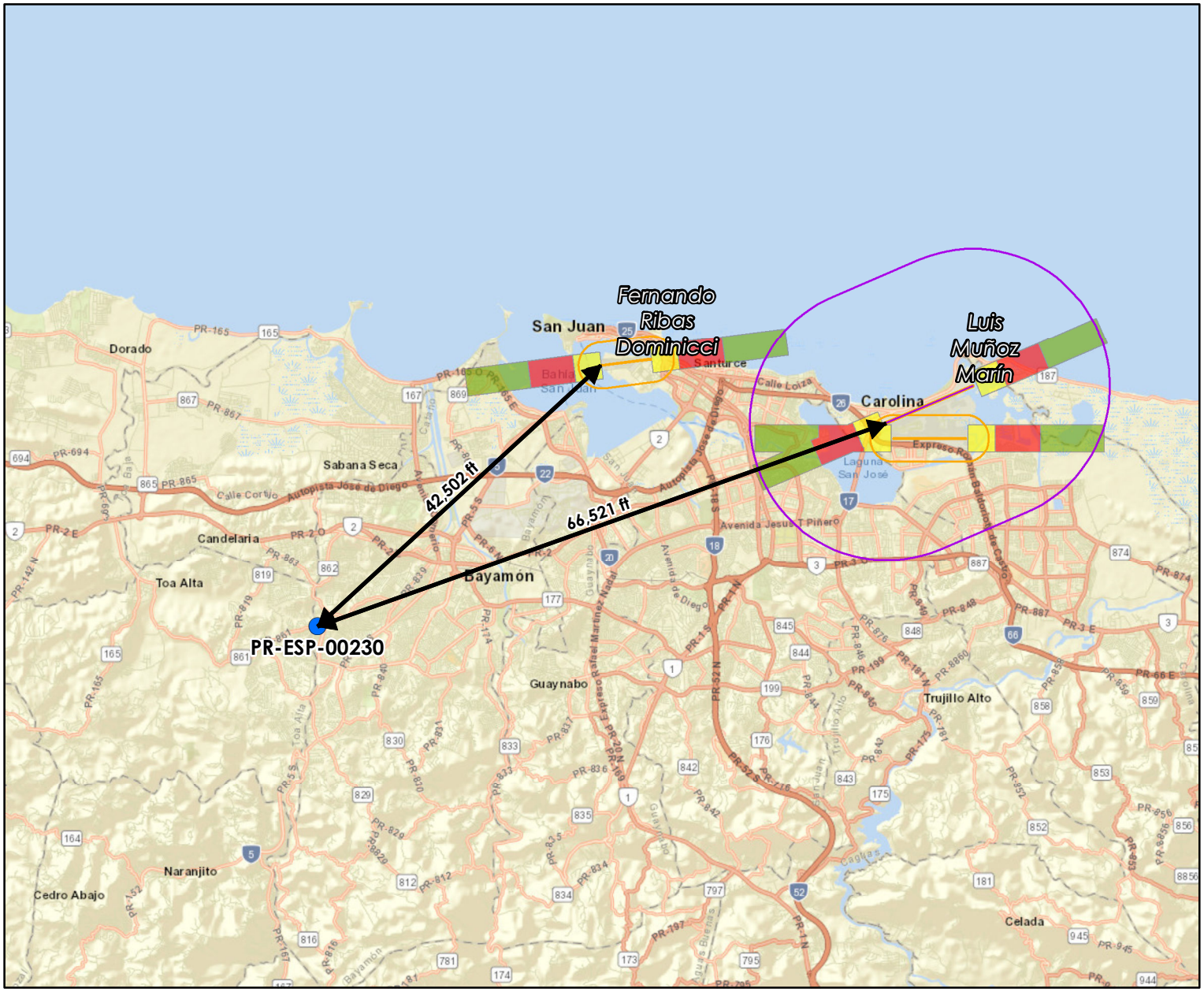
Catastro: 084-089-265-09-001
Lat: 18.376710, Lon: -66.196617



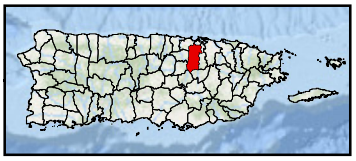
Legend:

- PR-ESP-00230
- SJU Military Runaway
- SJU Civil Runaway
- Militaryl Airport Buffer (15,000 Fts.)
- Civil Airport Buffer (2,500 Fts.)

Accident Potential Zone

- APZ 1
- APZ 2
- Clear Zone

1:200,000
0 10,000 20,000 Feet
0 2,000 4,000 6,000 Meters



Service Layer Credits:
Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community
Esri, Garmin, GEBCO, NOAA NGDC, and other contributors

Source:
Federal Aviation Administration (FAA)
https://adds-faa.opendata.arcgis.com/
The Environmental Protection Agency
https://www.epa.gov/nepa/nepassist

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Figure 3

Coastal Barrier Resource System Map

Electrical Power Reliability and Resilience Program (ER2)

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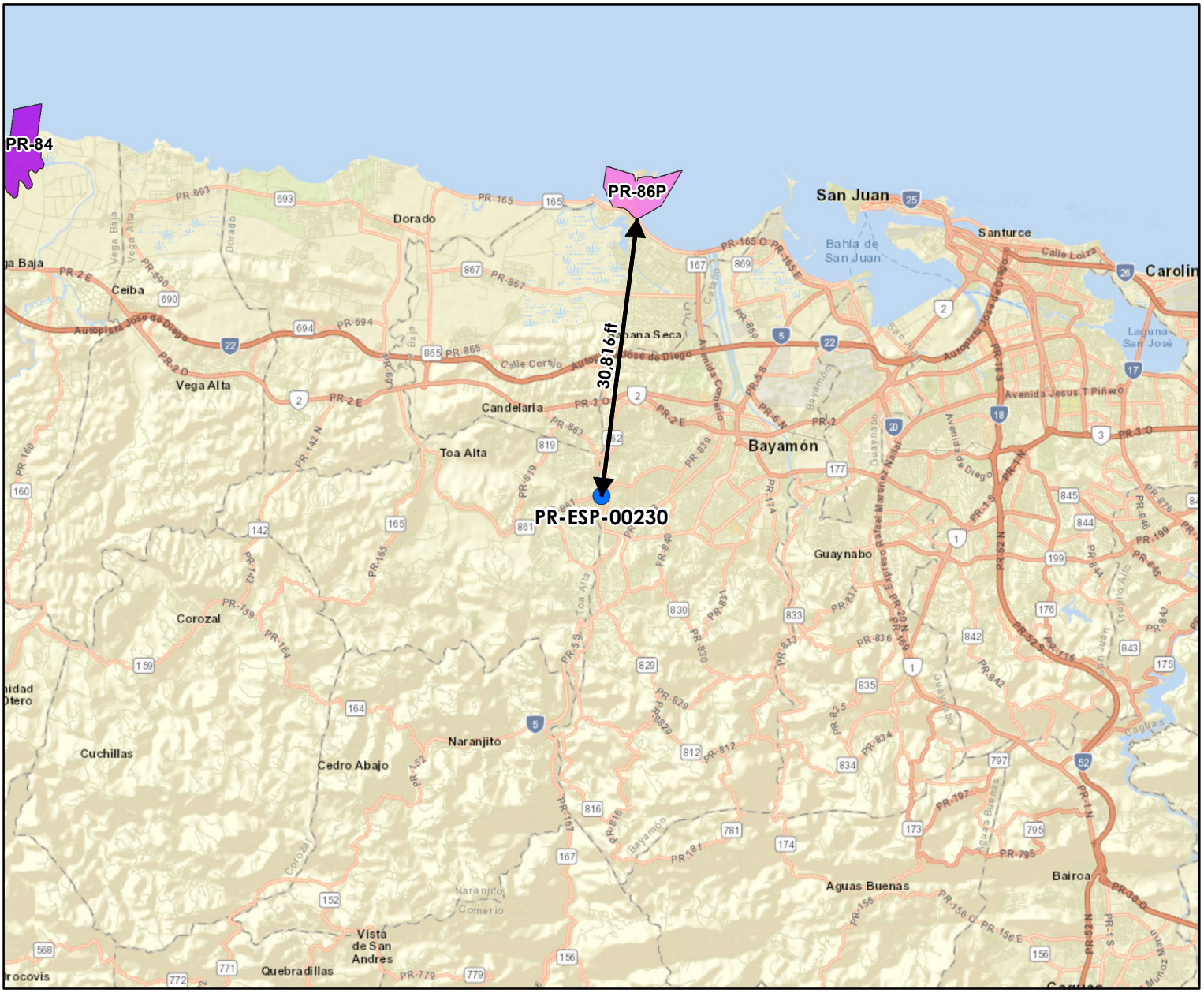
Catastro: 084-089-265-09-001
Lat: 18.376710, Lon: -66.196617



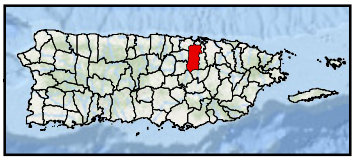
Legend:

- PR-ESP-00230

Coastal Barrier Resources System

- Otherwise Protected Area
- System Unit

1:200,000
0 10,000 20,000 Feet
0 2,000 4,000 6,000 Meters



Service Layer Credits:
Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community
Esri, Garmin, GEBCO, NOAA NGDC, and other contributors

Source:
U.S. Fish and Wildlife Service (FWS)
https://www.fws.gov/program/coastal-barrier-resources-act

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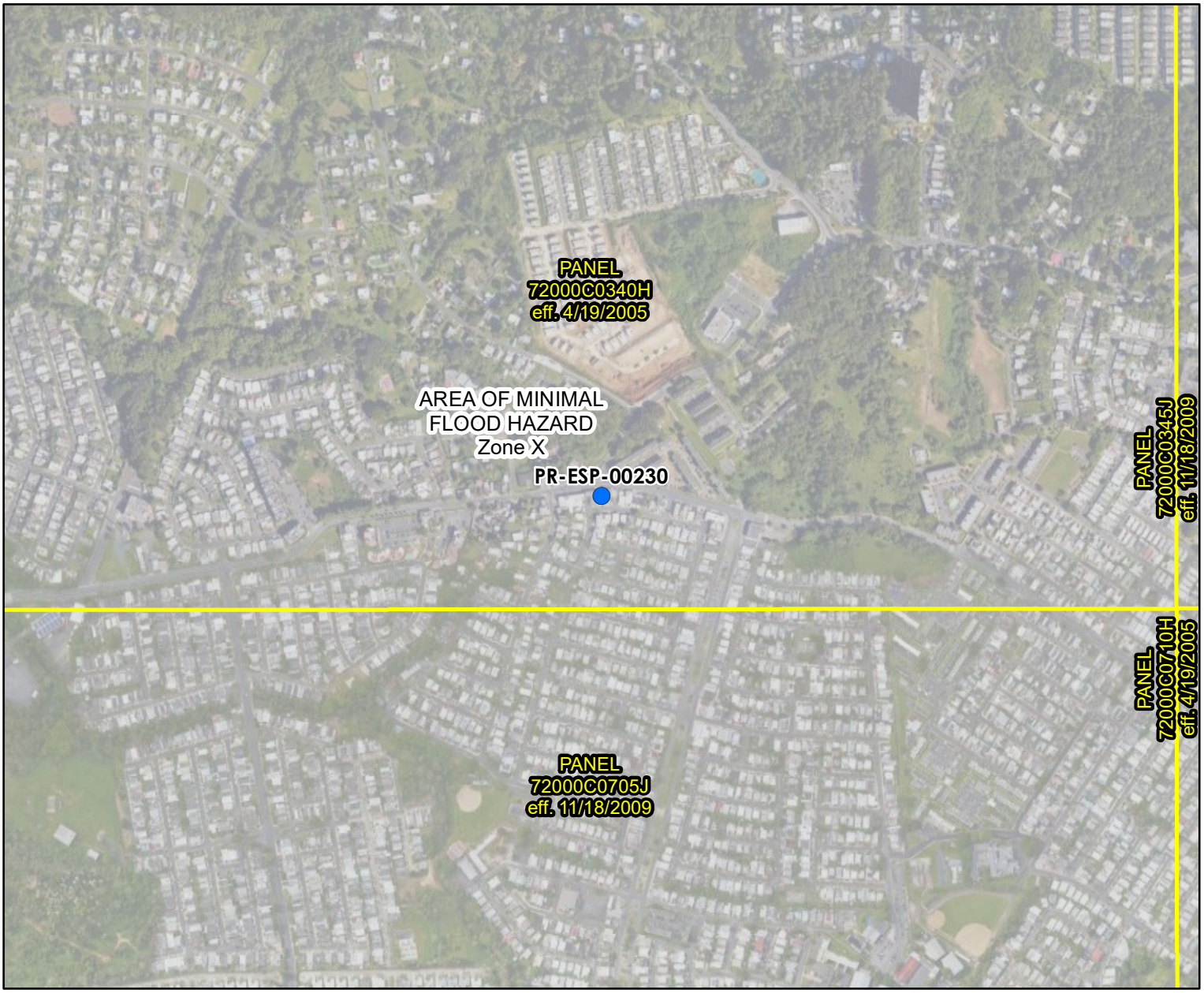
Application ID: PR-ESP-00230

Figure 4

Flood Insurance Rate Map

Electrical Power Reliability and Resilience Program (ER2)

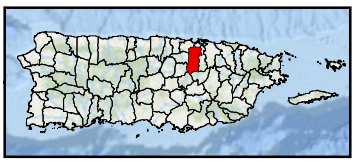
Advanced Medical Equipment & Services Inc.
Urb. Miraflores 3-9 Calle 2,
Bayamón PR 00657
Catastro: 084-089-265-09-001
Lat: 18.376710, Lon: -66.196617



Legend:

- PR-ESP-00230
- FIRM Panel
- Floodway
- 0.2% Annual Chance Flood Hazard
- Zone D Area of Undetermined Flood Hazard
- Zone A
- Zone AE
- Zone AH
- Zone AO
- Zone VE
- Zone X

1:10,000
0 250 500 750 1,000 Feet
0 100 200 300 Meters



Service Layer Credits:
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Source:
Federal Emergency Management Agency (FEMA)
https://msc.fema.gov/portal/home

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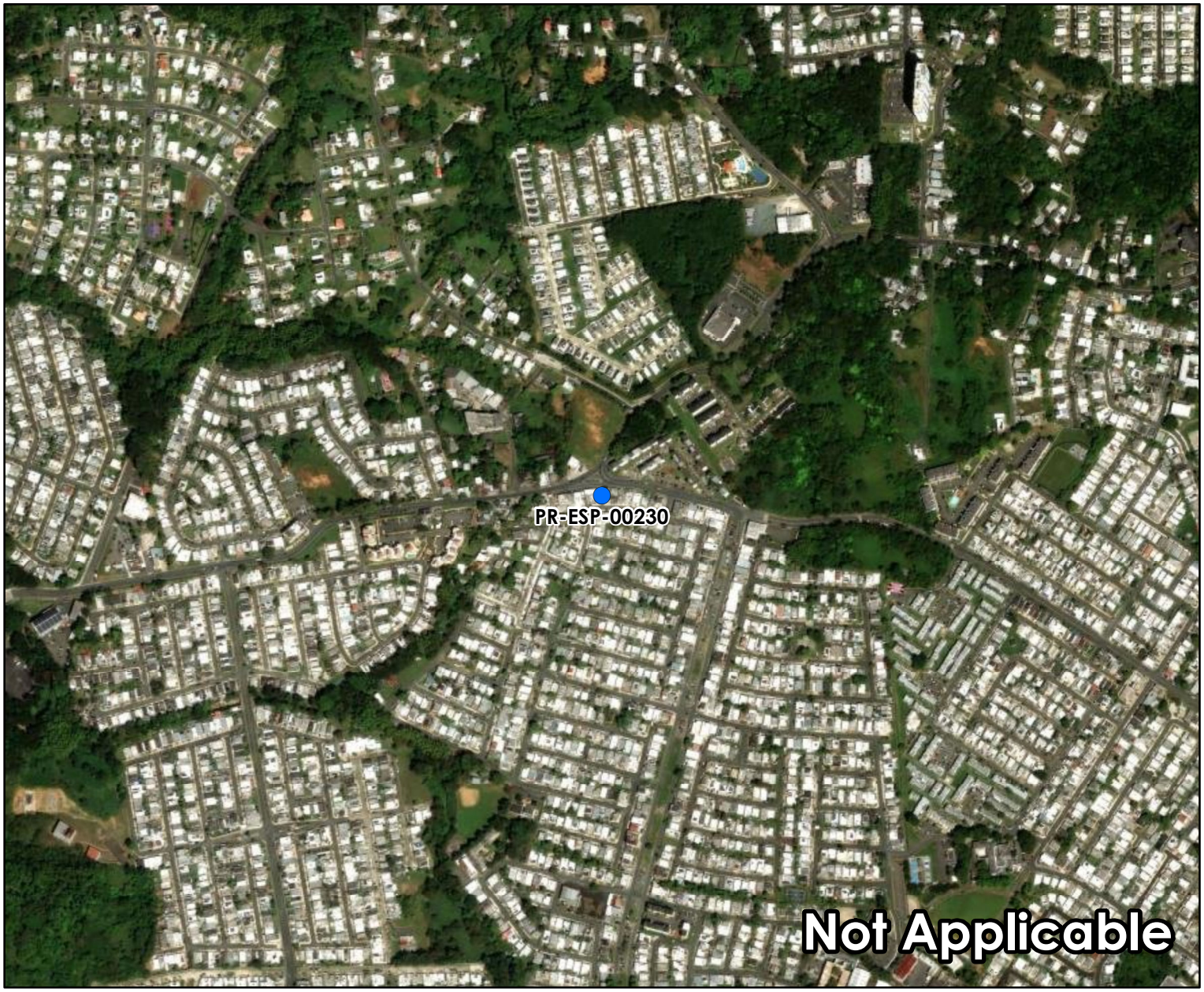
Application ID: PR-ESP-00230

Figure 4-A

Preliminary Flood Insurance Rate Map

Electrical Power Reliability and Resilience Program (ER2)

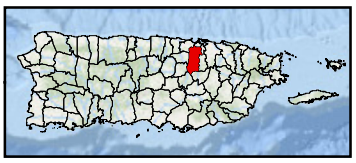
Advanced Medical Equipment & Services Inc.
Urb. Miraflores 3-9 Calle 2,
Bayamón PR 00657
Catastro: 084-089-265-09-001
Lat: 18.376710, Lon: -66.196617



Legend:

- PR-ESP-00230
- Preliminary FIRM Panel
- Floodway
- Profile Baseline
- Base Flood Elevation (m)
- 0.2% Annual Chance Flood Hazard (Zone X)
- Zone A
- Zone AE
- Zone AH
- Zone AO
- Zone VE
- Zone X

1:10,000
0 250 500 750 1,000 Feet
0 100 200 300 Meters



Service Layer Credits:
Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community
Esri, Garmin, GEBCO, NOAA NGDC, and other contributors

Source:
Federal Emergency Management Agency (FEMA)
https://msc.fema.gov/portal/home

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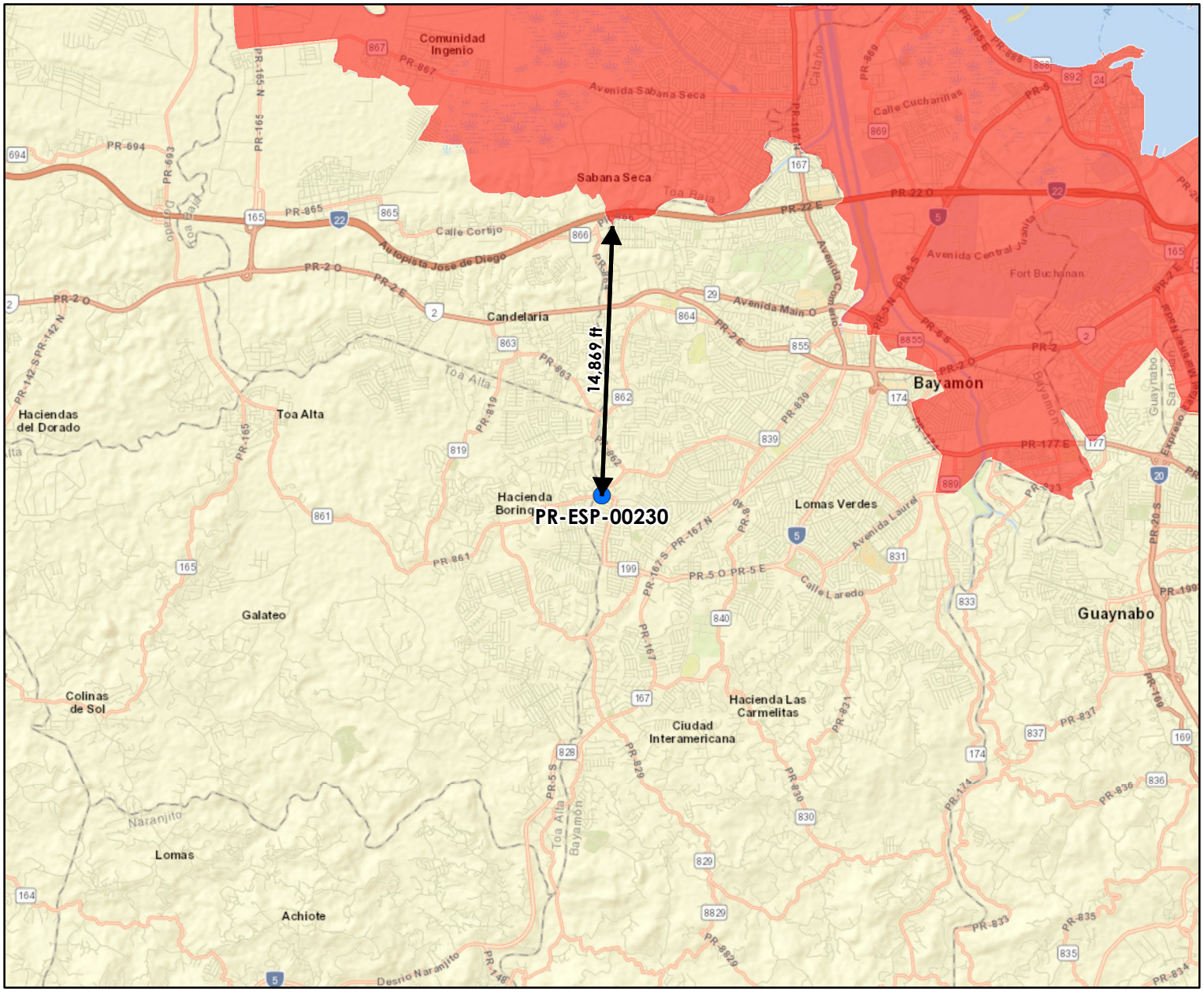
Figure 5

Clean Air Map

Electrical Power Reliability and Resilience Program (ER2)

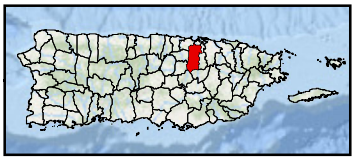
Advanced Medical Equipment & Services Inc.
Urb. Miraflores 3-9 Calle 2,
Bayamón PR 00657
Catastro: 084-089-265-09-001
Lat: 18.376710, Lon: -66.196617



Legend:

- PR-ESP-00230
- Clean Air Areas - SO2
- Clean Air Areas - Lead

1:100,000
0 2,000 4,000 6,000 8,000 10,000 Feet
0 1,000 2,000 3,000 Meters



Service Layer Credits:
Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community
Esri, Garmin, GEBCO, NOAA NGDC, and other contributors

Source:
U.S. Geological Survey (USGS)
https://pubs.er.usgs.gov

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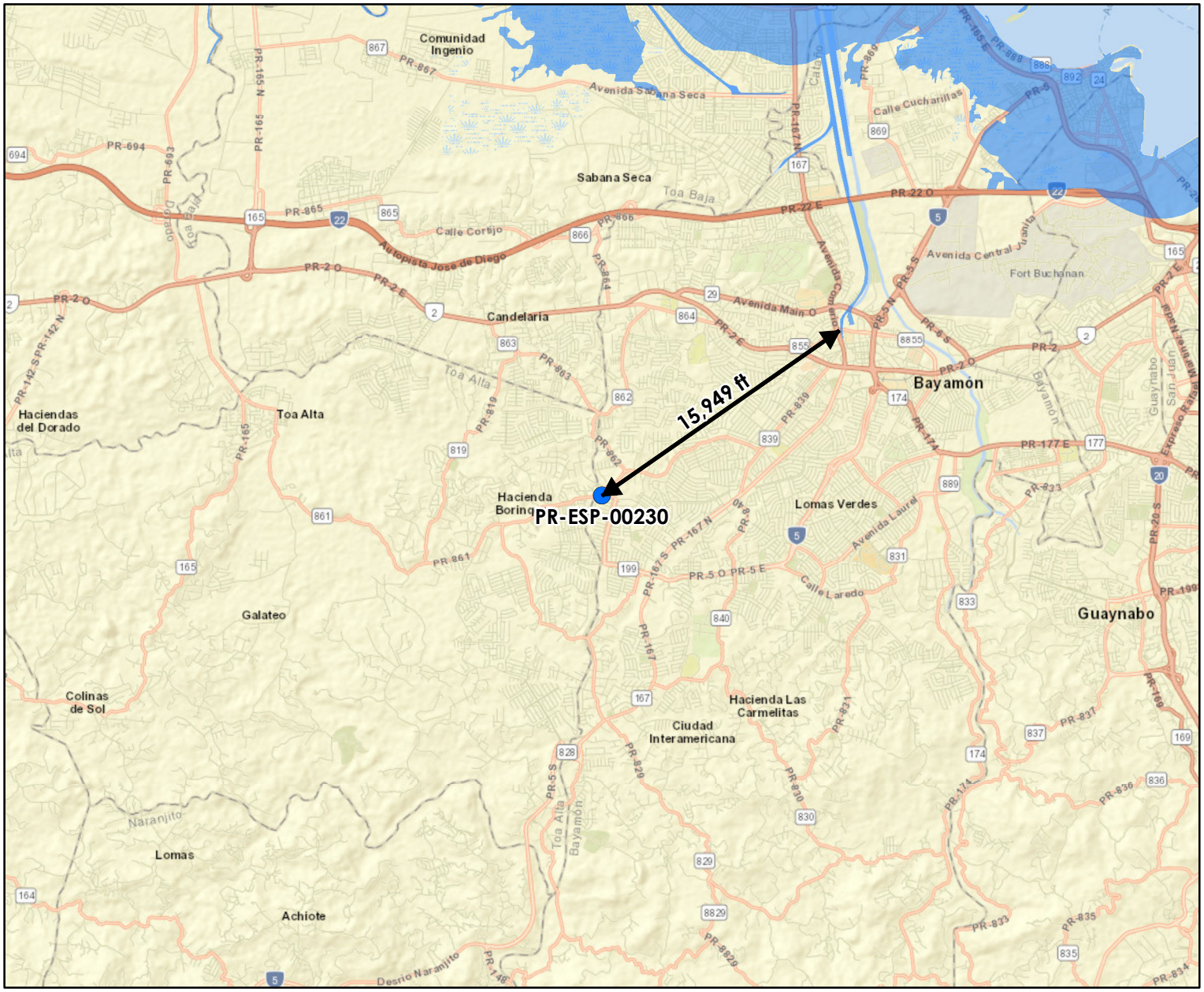
Application ID: PR-ESP-00230

Figure 6

Coastal Zone Management Map

Electrical Power Reliability and Resilience Program (ER2)

Advanced Medical Equipment & Services Inc.
Urb. Miraflores 3-9 Calle 2,
Bayamón PR 00657
Catastro: 084-089-265-09-001
Lat: 18.376710, Lon: -66.196617



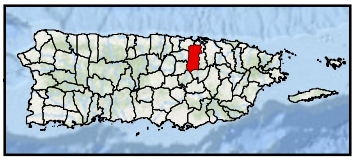
Legend:

- PR-ESP-00230
- Coastal Zone Management Act Boundary

1:100,000

0 2,000 4,000 6,000 8,000 10,000 Feet

0 1,000 2,000 3,000 Meters



Service Layer Credits:
Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community
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Source:
NOAA Office for Coastal Management (NOAA/OCM)
https://www.fisheries.noaa.gov/inport/item/53132

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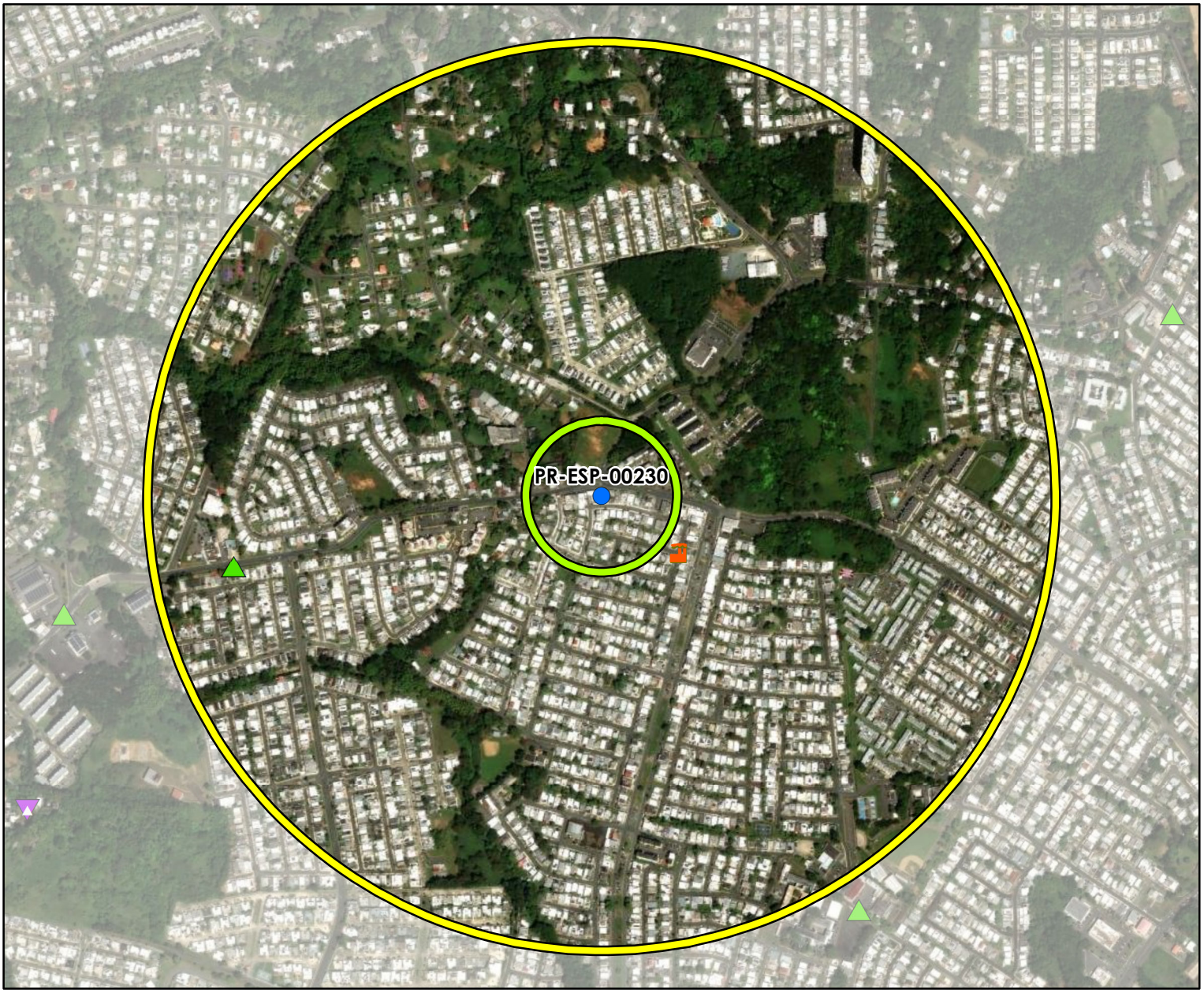
Application ID: PR-ESP-00230

Figure 7

Toxic and Hazardous Facilities Map

Electrical Power Reliability and Resilience Program (ER2)

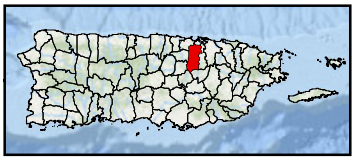
Advanced Medical Equipment & Services Inc.
Urb. Miraflores 3-9 Calle 2,
Bayamón PR 00657
Catastro: 084-089-265-09-001
Lat: 18.376710, Lon: -66.196617



Legend:

- PR-ESP-00230
- Buffer (500 Fts.)
- Buffer (3,000 Fts.)
- AIR
- NPDES
- NPDES - Major
- RADINFO
- RCRA
- RCRA - Active
- RCRA - Inactive
- TRI

1:12,000
0 250 500 750 1,000 1,250 Feet
0 100 200 300 400 Meters



Service Layer Credits:
Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community
Esri, Garmin, GEBCO, NOAA NGDC, and other contributors

Source:
EPA Facility Registry Service (FRS)
https://www.epa.gov/frs

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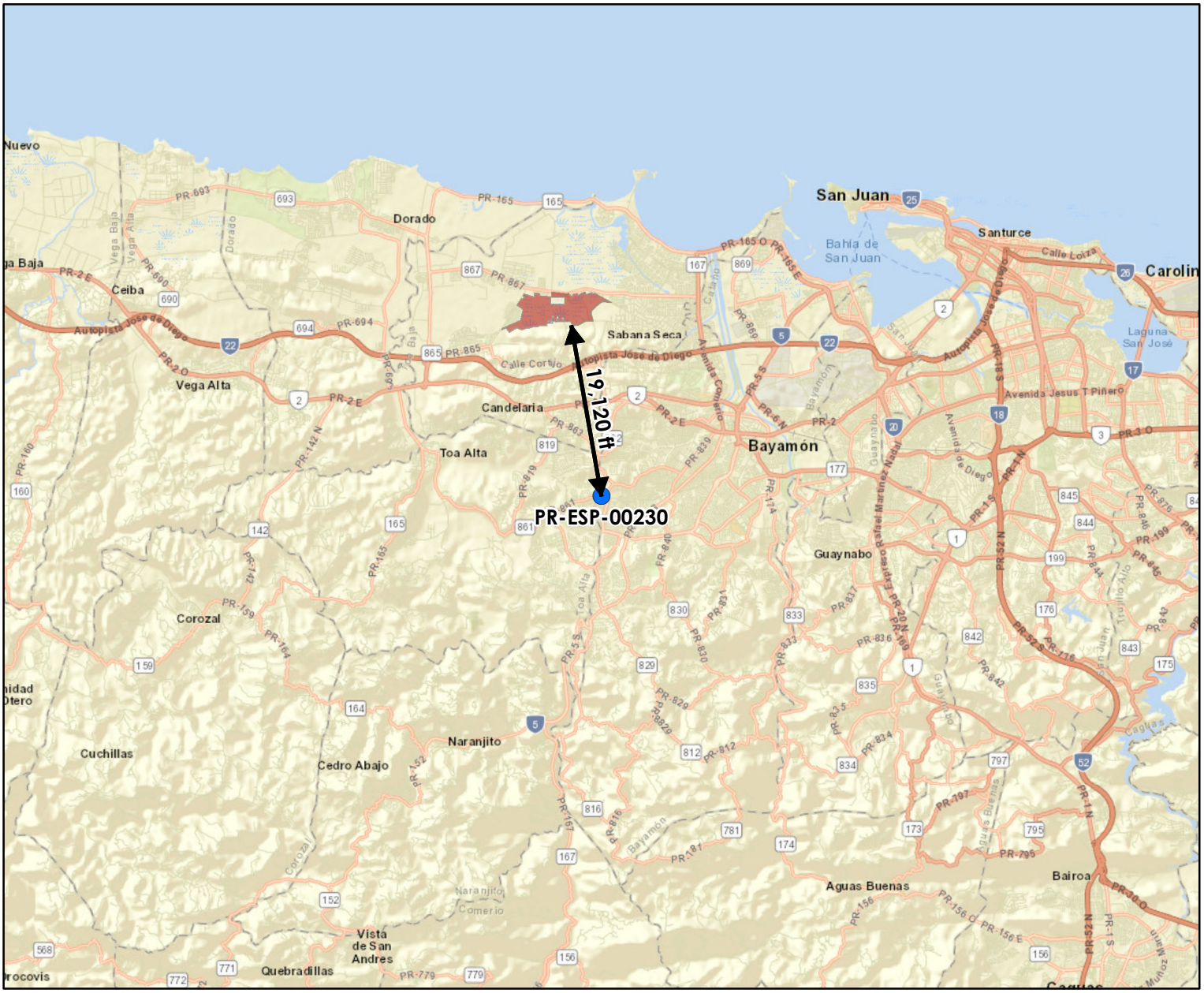
Application ID: PR-ESP-00230

Figure 8

Threatened and Endangered Species Map

Electrical Power Reliability and Resilience Program (ER2)

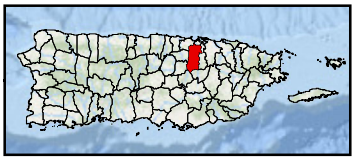
Advanced Medical Equipment & Services Inc.
Urb. Miraflores 3-9 Calle 2,
Bayamón PR 00657
Catastro: 084-089-265-09-001
Lat: 18.376710, Lon: -66.196617



Legend:

- PR-ESP-00230
- Critical Habitat

1:200,000
0 10,000 20,000 Feet
0 2,000 4,000 6,000 Meters



Service Layer Credits:
Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community
Esri, Garmin, GEBCO, NOAA NGDC, and other contributors

Source:
NOAA Office of Response and Restoration
https://response.restoration.noaa.gov/

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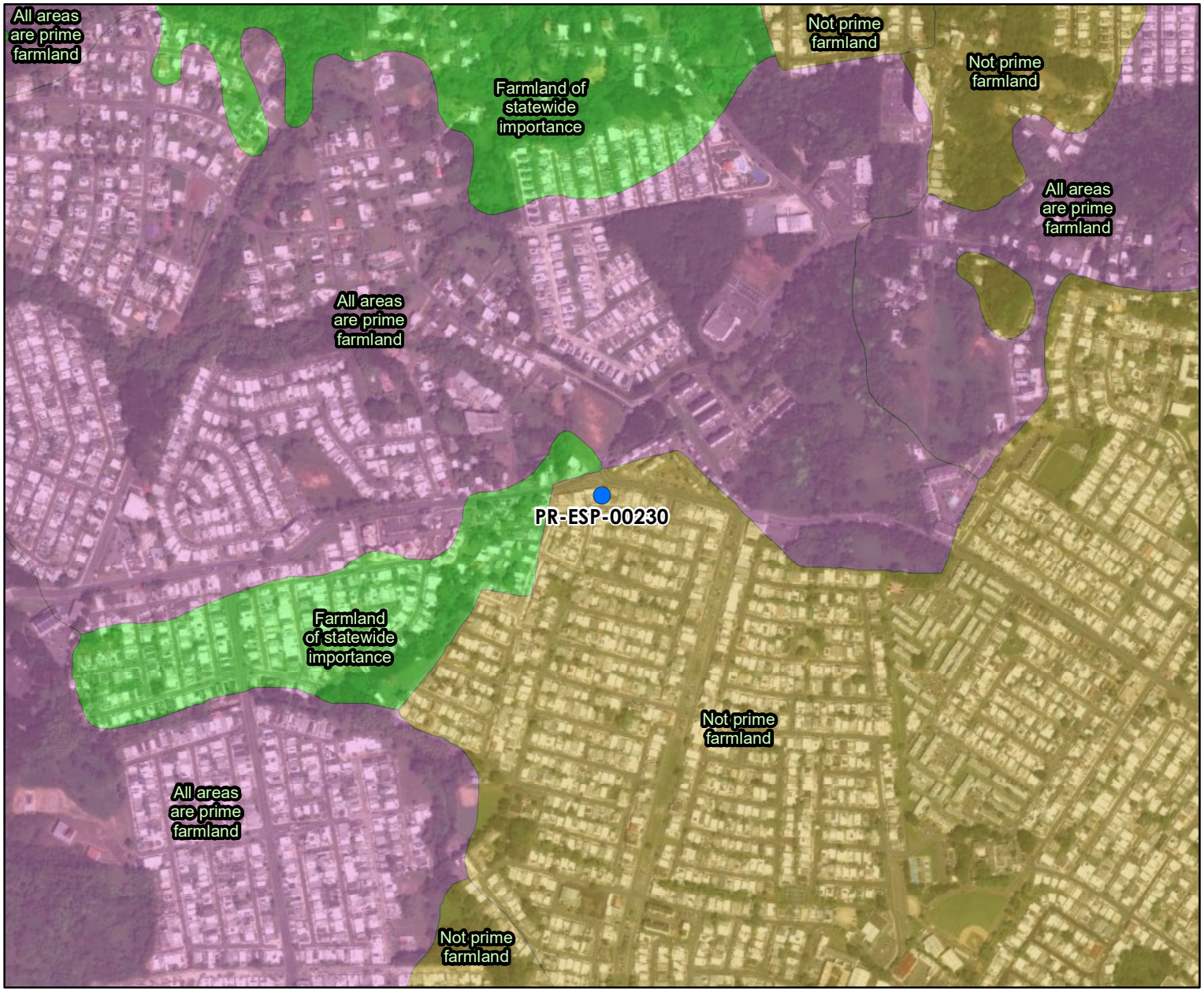
Figure 9

Farmland Protection

Electrical Power Reliability and Resilience Program (ER2)

Advanced Medical Equipment & Services Inc.
Urb. Miraflores 3-9 Calle 2,
Bayamón PR 00657
Catastro: 084-089-265-09-001
Lat: 18.376710, Lon: -66.196617



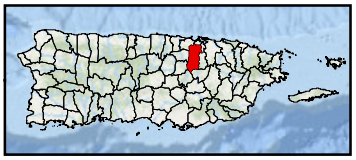
Legend:

- PR-ESP-00230

Farm Class

- All areas are prime farmland
- Farmland of statewide importance
- Not prime farmland

1:10,000
0 250 500 750 1,000 Feet
0 100 200 300 Meters



Service Layer Credits:
Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community
Esri, Garmin, GEBCO, NOAA NGDC, and other contributors

Source:
Underground Storage Tanks (USTs)
https://www.epa.gov/ust

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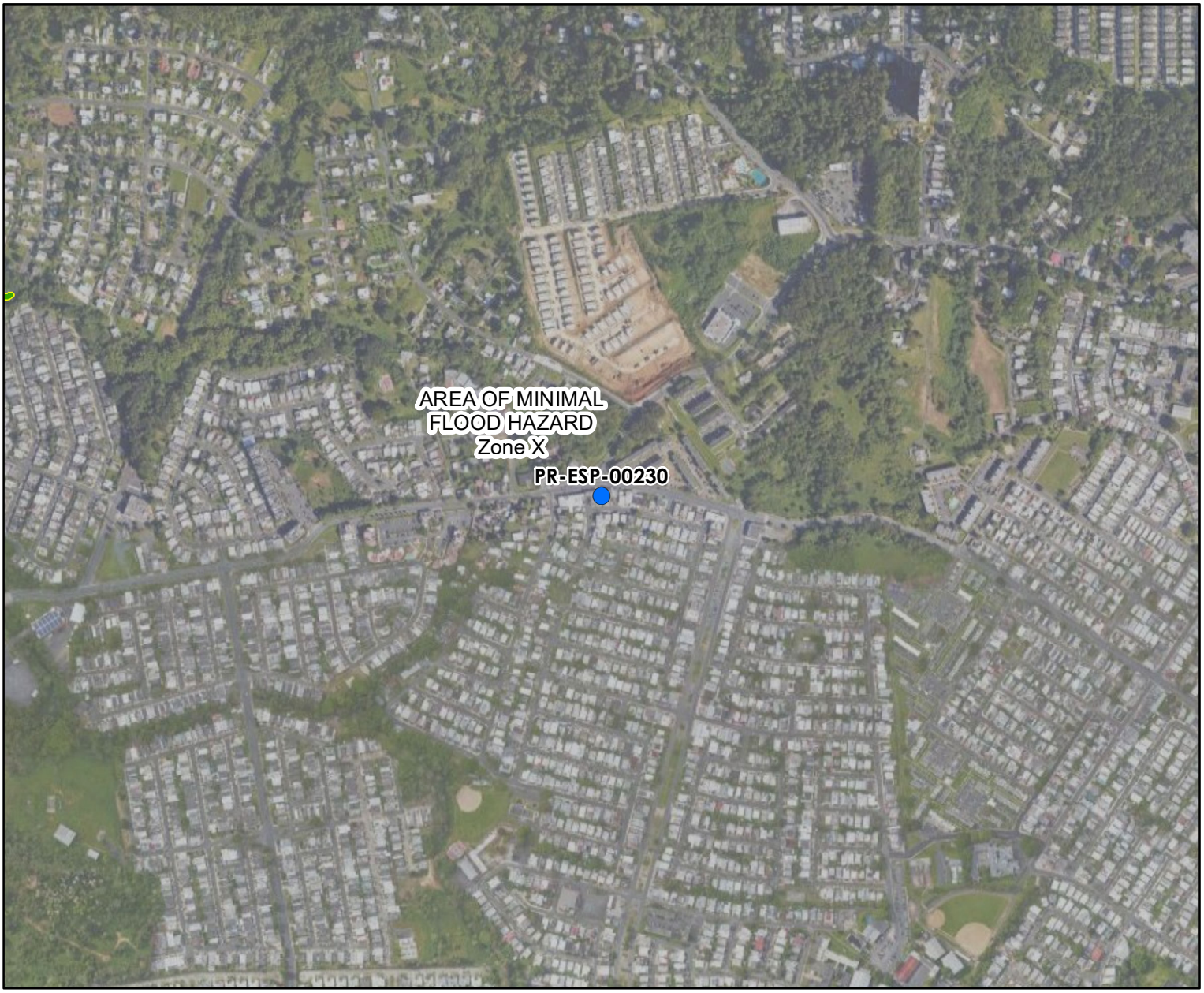
Application ID: PR-ESP-00230

Figure 10

Advisory Base Flood Elevation Map

Electrical Power Reliability and Resilience Program (ER2)

Advanced Medical Equipment & Services Inc.
Urb. Miraflores 3-9 Calle 2,
Bayamón PR 00657
Catastro: 084-089-265-09-001
Lat: 18.376710, Lon: -66.196617



Legend:

- PR-ESP-00230
- Area Potential Effect (Building Footprint)
- CRIM-Parcel
- Advisory Base Flood Elevations (ABFE)
- 0.2 % Annual Chance Flood
- 1 % Annual Chance Flood

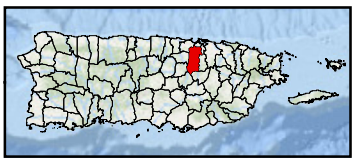
Flood Zone

- Zone A
- Zone AE
- Zone AO
- Zone VE
- Zone X - Area of Minimal Flood Hazard
- 0.2 % Annual Chance Flood
- Floodway

1:10,000

0 250 500 750 1,000 Feet

0 100 200 300 Meters



Service Layer Credits:
Esri, Garmin, GEBCO, NOAA NGDC, and other contributors

Source:
Federal Emergency Management Agency (FEMA),
https://gis-r2-fema.hub.arcgis.com/
Junta de Planificacion de Puerto Rico (JP), https://maps.jp.pr.gov/
Mapas de Niveles de Inundacion Base Recomendados

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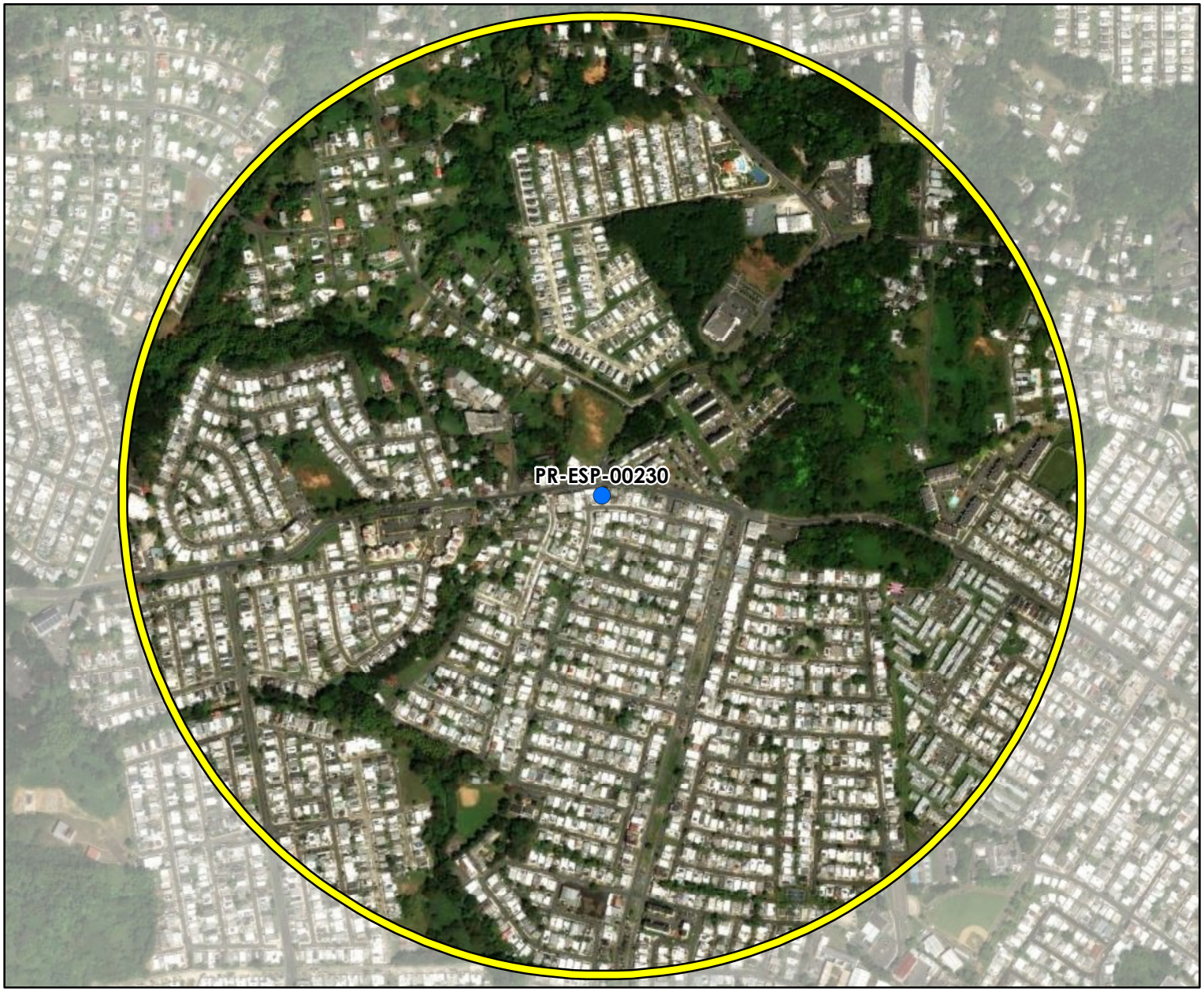
Application ID: PR-ESP-00230

Figure 11

Historic Preservation Map

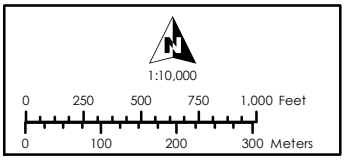
Electrical Power Reliability and Resilience Program (ER2)

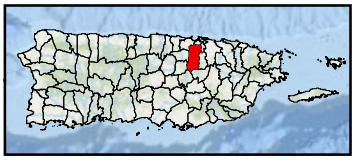
Advanced Medical Equipment & Services Inc.
Urb. Miraflores 3-9 Calle 2,
Bayamón PR 00657
Catastro: 084-089-265-09-001
Lat: 18.376710, Lon: -66.196617



Legend:

- PR-ESP-00230
- Buffer (0.5 Mile)
- Cultural Resource Building
- Cultural Resource Structure
- Cultural Resource Object
- Cultural Resource Site
- Historic Centers
- Cultural Resource District
- Sensitive Archaeological Zones
- Archaeological Resource Zones
- Historic Communities
- Traditional Urban Center





Service Layer Credits:
Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community
Esri, Garmin, GEBCO, NOAA NGDC, and other contributors

Source:
National Park Service (NPS) - National Register of Historic Places (NRHP)
https://www.nps.gov/subjects/nationalregister/index.htm
State Historic Preservation Office (SHPO)
https://oech.pr.gov/Pages/default.aspx

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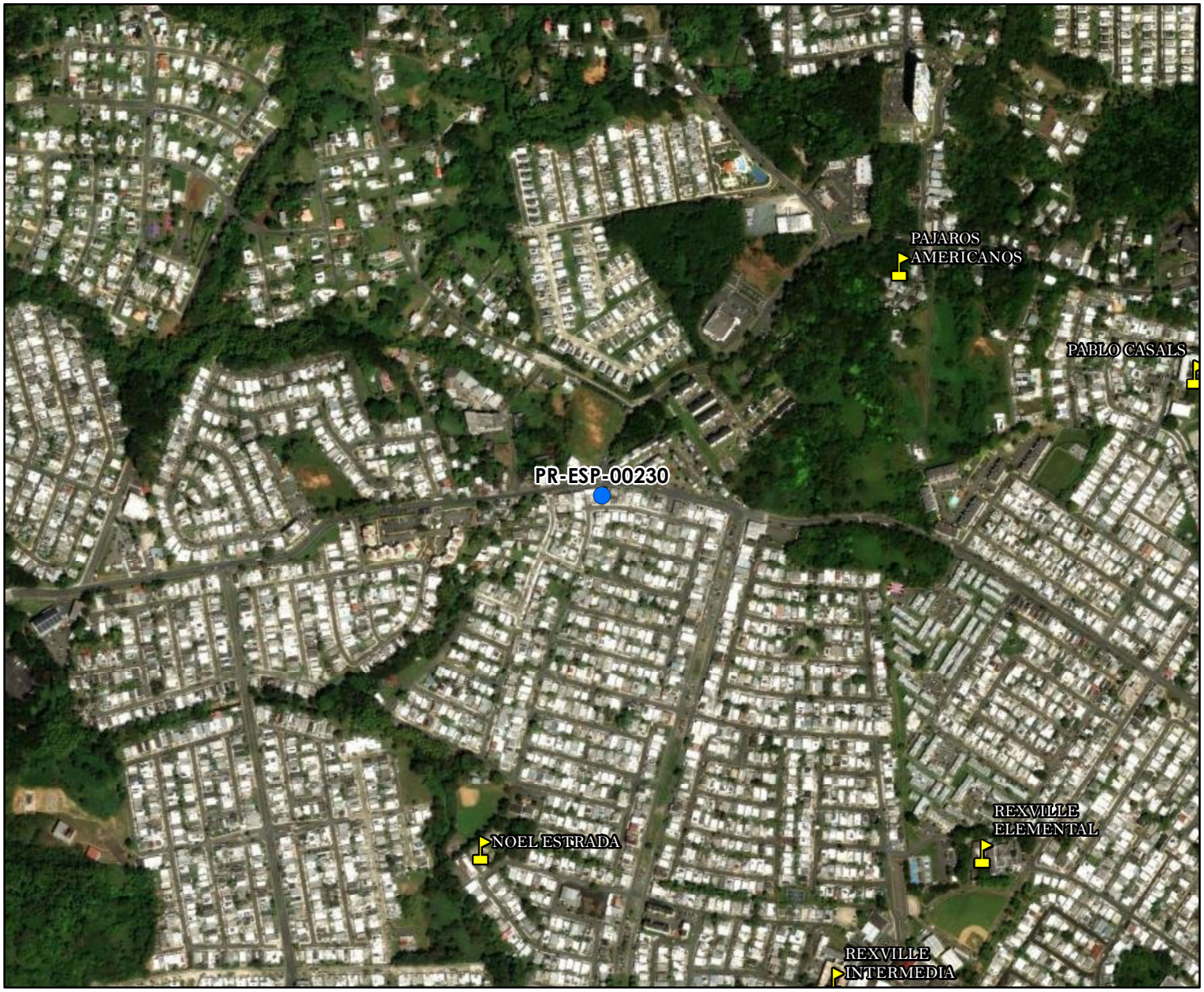
Application ID: PR-ESP-00230

Figure 12

Noise Abatement and Control Map

Electrical Power Reliability and Resilience Program (ER2)

Advanced Medical Equipment & Services Inc.
Urb. Miraflores 3-9 Calle 2,
Bayamón PR 00657
Catastro: 084-089-265-09-001
Lat: 18.376710, Lon: -66.196617



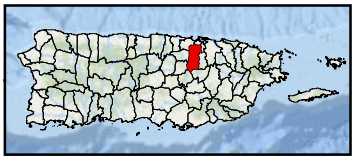
Legend:

- PR-ESP-00230
- University
- School
- Hospital
- Emergency Hospital

1:10,000

0 250 500 750 1,000 Feet

0 100 200 300 Meters



Service Layer Credits:
Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community
Esri, Garmin, GEBCO, NOAA NGDC, and other contributors

Source:
U.S. Geological Survey (USGS)
https://pubs.er.usgs.gov/publication/ofr20201022

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Application ID: PR-ESP-00230

Figure 13

EPA Sole Source Aquifers

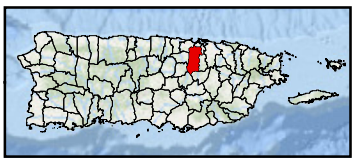
Electrical Power Reliability and Resilience Program (ER2)

Advanced Medical Equipment & Services Inc.
Urb. Miraflores 3-9 Calle 2,
Bayamón PR 00657
Catastro: 084-089-265-09-001
Lat: 18.376710, Lon: -66.196617

Legend:

- PR-ESP-00230
- EPA Sole Source Aquifers

1:10,000,000
0 500,000 1,000,000 Feet
0 100,000 200,000 300,000 Meters



Service Layer Credits:
Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community
Esri, Garmin, GEBCO, NOAA NGDC, and other contributors

Source:
U.S. Environmental Protection Agency
https://epa.maps.arcgis.com/apps/webappviewer/index.html
?id=9ebb047ba3ec41ada1877155fe31356b

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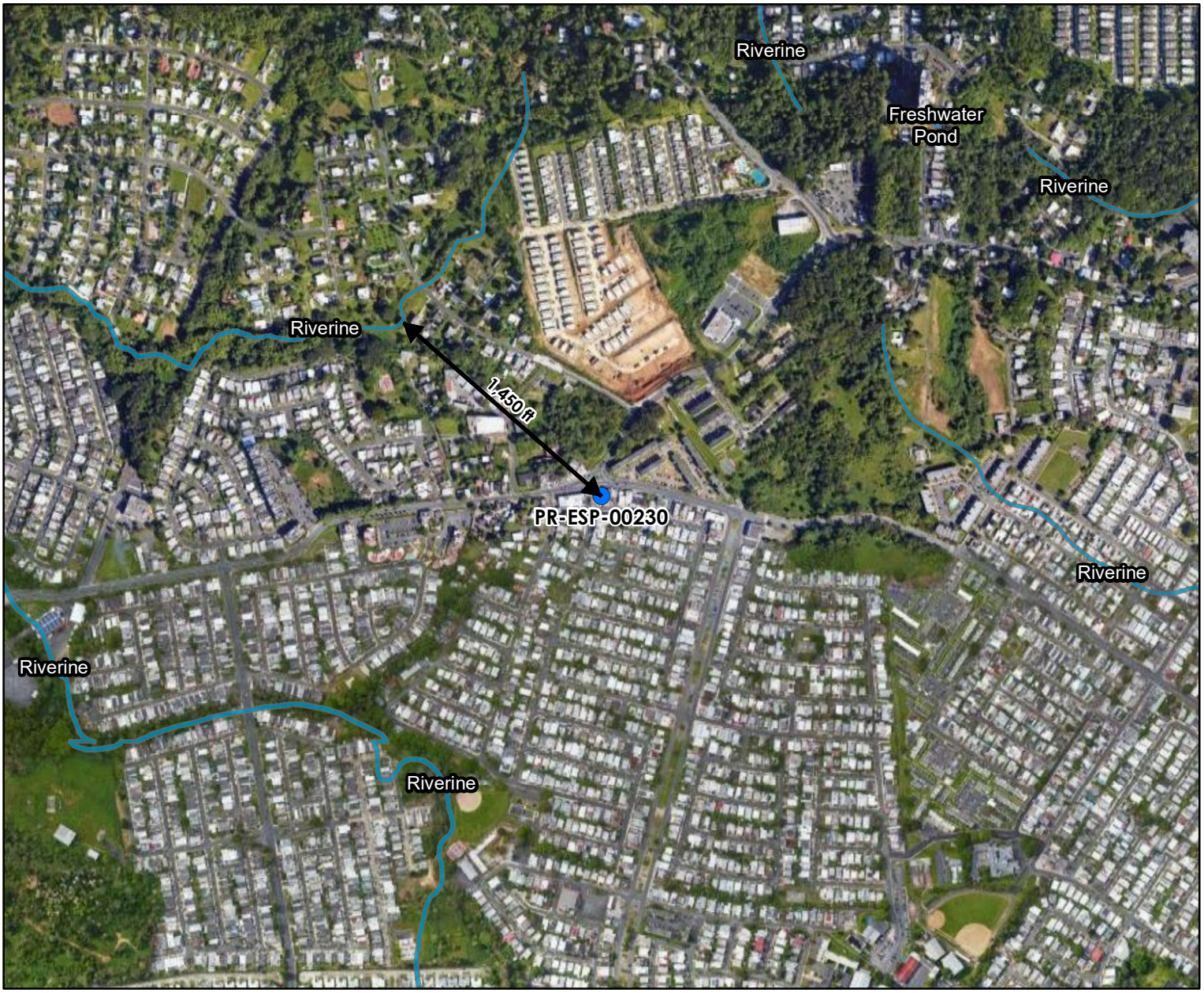
Application ID: PR-ESP-00230

Figure 14

Wetlands Map

Electrical Power Reliability and Resilience Program (ER2)

Advanced Medical Equipment & Services Inc.
Urb. Miraflores 3-9 Calle 2,
Bayamón PR 00657
Catastro: 084-089-265-09-001
Lat: 18.376710, Lon: -66.196617



Legend:

PR-ESP-00230

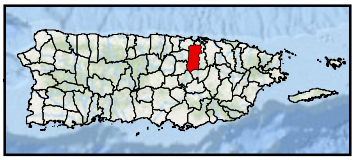
National Wetlands Inventory

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Riverine

1:10,000

0 250 500 750 1,000 Feet

0 100 200 300 Meters



Service Layer Credits:
Esri, Garmin, GEBCO, NOAA NGDC, and other contributors

Source:
U.S. Fish and Wildlife Service - National Weatlands Inventory
https://www.fws.gov/program/national-wetlands-inventory

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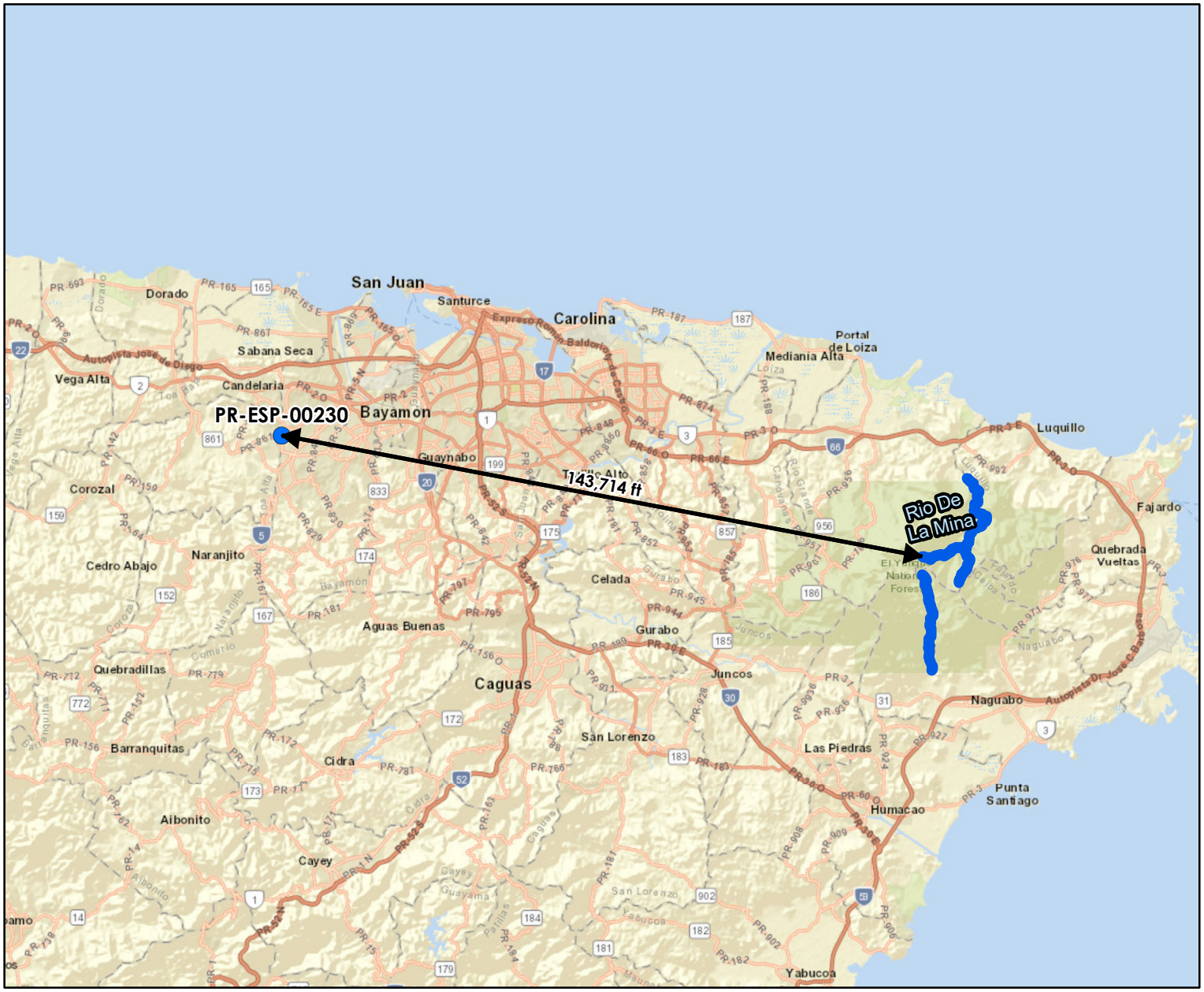
Application ID: PR-ESP-00230

Figure 15

Wild and Scenic Rivers Map

Electrical Power Reliability and Resilience Program (ER2)

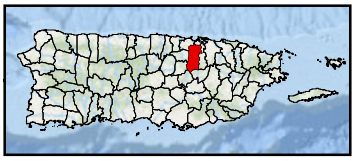
Advanced Medical Equipment & Services Inc.
Urb. Miraflores 3-9 Calle 2,
Bayamón PR 00657
Catastro: 084-089-265-09-001
Lat: 18.376710, Lon: -66.196617



Legend:

- PR-ESP-00230
- Wild and Scenic Rivers

1:400,000
0 15,000 30,000 45,000 Feet
0 4,000 8,000 12,000 Meters



Service Layer Credits:
Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community
Esri, Garmin, GEBCO, NOAA NGDC, and other contributors

Source:
U.S. Fish and Wildlife Service - National Weatlands Inventory
https://www.fws.gov/program/national-wetlands-inventory

Appendix 2: Field Visit Report

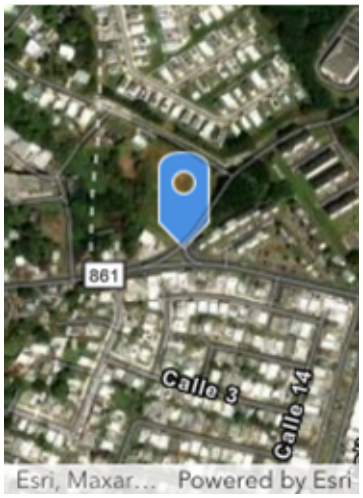
BYA BEHAR-YBARRA & ASSOCIATES LLC
CONSULTING ENGINEERS, ARCHITECTS AND PLANNERS

DEPARTMENT OF HOUSING

Environmental Field Assessment Form - PR-ESP-00230

APPLICANT/LOCATION INFORMATION

Applicant ID:	PR-ESP-00230
Applicant Name:	Advanced Medical Equipment & Services Inc
Parcel ID:	084-089-265-09-001
Coordinates:	18.376710, -66.196617
Street Address:	URB MIRAFLORES 3-9 CALLE 2
Municipio:	Bayamon
Zip Code:	00957
Site Inspector:	Egon Gonzalez
Date of Visit:	March 14, 2025
Time of Visit:	15:55
Year Built:	Circa 1962



Building Information

Question	Answer	Notes
1. Location verified:	Yes	18.376710, -66.196617
2. Is the building correct on GIS?	Yes	Building is correct on GIS
3. Building Type:	1	
4. # of Stories:	2	
5. Building Foundation:	Concrete Slab	
6. Is the building in use?	Yes	Building is in use
7. Does the building have a detached garage / carport present?	No	
8. Is the electricity connected?	Yes	Electricity is connected
9. Is the water connected?	Yes	Water is connected
10. 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, electrical equipment etc.)	No	
11. Is a septic system present? If Yes report apparent condition.	No	
12. Are there any obvious signs of animals, birds nesting or burrows near the site?	No	

Parcel Conditions		
Question	**Answer**	**Notes**
1) Are there any 55-gallon drums visible on site? If yes, are they leaking?	No	
2) Are there any (or signs of any) underground storage tanks on the property?	No	
3) Are there signs of AST on the parcel or adjacent parcel? If yes, list approximate size and contents, if known.	Yes	Medical oxygen tanks, 300lbs Propane tank located at back of structure and 200gal water cistern located on roof of structure
4) Is there any stained soil or pavement on the parcel?	No	
5) Are there any potentially hazardous trees that could fall?	No	
6) Are there any groundwater monitoring wells on the site or adjacent parcel?	No	
7) Is there distressed vegetation on the parcel?	No	
8) Are any additional environmental or non-environmental site hazards observed?	No	
9) 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)?	No	
10) Does the subject property have water frontage?	No	
11) 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?	No	
12) Is a historic marker present?	No	
13) Based on the above finding, does additional information need to be obtained from the applicant to determine whether an environmental hazard is present?	No	

Building Environmental Conditions		
Question	**Answer**	**Notes**
1. Is there any visible evidence of asbestos, chipping, and flaking or peeling paint, or hazardous materials present in or on the structure?	No	
2. Is there any visible indication of mold?	No	
3. Are there any pungent, foul or noxious odors?	No	

Additional Needs Analysis		
Question	**Answer**	**Notes**
Based on the above findings, does additional information need to be obtained from the applicant to determine whether an environmental hazard is present?	No	

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

Inspector Signature

Egon Gonzalez

March 14, 2025

Front of Structure	
Photo Direction: South Comments:	

Facing Away from Front	
Photo Direction: North Comments:	

Side #1 of Structure	
Photo Direction: South Comments:	

Facing Away From Side #1	
Photo Direction: Southeast Comments:	

Back of Structure	
Photo Direction: North Comments:	

Facing Away from Back	
Photo Direction: South Comments:	

Side #2 of Structure	
Photo Direction: South Comments:	

Facing Away from Side #2	
Photo Direction: Southwest Comments:	

Streetscape #1	
Photo Direction: East Comments:	

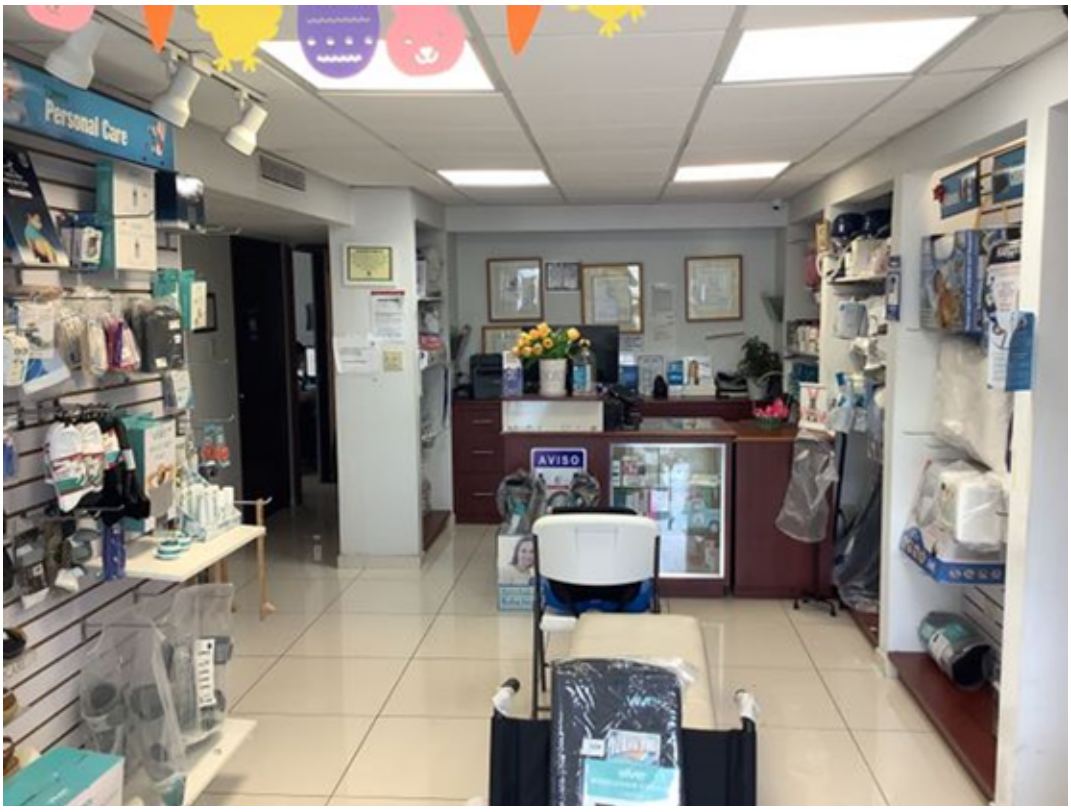
Streetscape #2	
Photo Direction: West Comments:	

Address	
Photo Direction: North Comments:	

Architectural Details 1	
Photo Direction: Photo Description: Electricity is connected	

Architectural Details 2	
Photo Direction: Photo Description: Water is connected	

Architectural Details 3	
Photo Direction: Photo Description: Medical oxygen cylinders	

Architectural Details 4	
Photo Direction: Photo Description: General interior view	

Architectural Details 5	
Photo Direction: Photo Description: General interior view	

Architectural Details 6	
Photo Direction: Photo Description: 200gal Water cistern located at roof of structure	

Architectural Details 7	
Photo Direction: Photo Description: Additional roof of structure view	

Architectural Details 8	
Photo Direction: Photo Description: Proposed location for battery storage	

Architectural Details 9	
Photo Direction: Photo Description: Proposed location for battery storage system	

Architectural Details 10	
Photo Direction: Photo Description: 300lbs Propane tank located at back of structure	

Appendix 3: Quote

Cotización para:
Advanced Medical Equipment and Services (AMES)
Mayra L Torres Villalobos
Dirección y Coordenadas:
C Albedrio BL3 N9 Urb. Miraflores
Bayamon PR 00961
(18.376713, -66.196628)

Fecha: 7-Oct-2024

Preparado por:
Valeria Vázquez
787-633-0169
vvazquez@secureenergy.net

Estimado/a Advanced Medical Equipment and Services (AMES),

Gracias por elegir Secure Energy LLC para su sistema de energía solar. Estamos seguros de que satisfaremos sus necesidades y superaremos sus expectativas.

Resumen Sistema Solar

REIC	Secure Energy LLC
Nombre del Negocio	Advanced Medical Equipment and Services (AMES)
Nombre del Solicitante	Mayra L Torres Villalobos
Dirección Física	C Albedrio BL3 N9 Urb. Miraflores, Bayamon PR 00961
Coordenadas	(18.376713, -66.196628)
Consumo Annual del Cliente	17,574 kWh
Capacidad PVS Para Satisfacer Consumo Annual	12.15kWDC
Capacidad PVS Propuesta	12.15kWDC
Capacidad BSS Propuesta	13.5kWh
Energia a Producir Anualmente (PVWatts)	17,789 kWh
Porcentaje de Cobertura de Consumo Annual	101.22%
Equipos PVS	JA Solar, JAM54S31 - 405W, 405W
Equipos Microinversores	Enphase, IQ8PLUS, 300W
Equipos BSS	Tesla, Powerwall 2, 13.5kWh
Costo Total Sistema	$43,138

Cotización para:
Advanced Medical Equipment and Services (AMES)
Mayra L Torres Villalobos
Dirección y Coordenadas:
C Albedrio BL3 N9 Urb. Miraflores
Bayamon PR 00961
(18.376713, -66.196628)

SECURE ENERGY
SOLAR ENERGY SYSTEMS

Fecha: 7-Oct-2024

Preparado por:
Valeria Vázquez
787-633-0169
vvazquez@secureenergy.net

Estimado/a Advanced Medical Equipment and Services (AMES),

Gracias por elegir Secure Energy LLC para su sistema de energía solar. Estamos seguros de que satisfaremos sus necesidades y superaremos sus expectativas.

Análisis de Consumo de Energía

Según su factura más reciente de AEE/LUMA, su residencia consume un promedio de 48.1kWh por día, lo que anualiza un total de 17,574kWh por año. Este consumo de energía eléctrica se traduce a $5,799 total de gasto por año. Con el fin de reducir su consumo de energía eléctrica de la AEE, y disfrutar de un servicio de energía eléctrica sin interrupción en su residencia, proponemos el siguiente sistema de energía solar:

Detalles del Sistema Solar

30	Paneles solares fotovoltaicos de 405W, Marca: JA Solar Modelo: JAM54S31 - 405W. Capacidad total de 12.2kWDC.
30	Microinversores Marca: Enphase Modelo: IQ8PLUS de 300W cada uno Capacidad total de 9.0kWAC.
1	Enphase IQ Gateway: Sistema que integra todos los microinversores, monitorea la producción solar y el consumo de energía residencial. Capaz de captar la generación de energía individual de cada placa solar y microinversor.
1	Racking System Unirac 2.0 Solarmount: Diseñado y certificado por ingenieros estructurales para resistir vientos de huracanes

Detalles del Sistema de Batería

1	Batería Tesla Powerwall 2, almacenamiento total de energía de 13.5kWh. La batería almacena energía solar y genera energía eléctrica de 'backup' residencial en eventos de cortes de energía de la AEE/LUMA
1	Tesla Gateway 2; controla la conexión a la red de la AEE/LUMA, detectando automáticamente interrupciones y proporcionando una transición 'seamless' a la energía eléctrica de respaldo residencial.

Diseño, Instalación y Detalles Adicionales

Esta cotización incluye lo siguiente:
i) servicios de diseño e ingeniería;
ii) cualquier permiso requerido para el sistema;
iii) equipos, incluidos módulos fotovoltaicos o paneles solares, inversores, medición equipos, equipos de equilibrio, baterías, controladores de carga, interruptores de transferencia, montaje, cableado y otros aparatos eléctricos accesorios para configurar un sistema de trabajo;
iv) estructuras de montaje y anclaje, como sistemas de estanterías y otros estructuras que proporcionan soporte primario para el equipo del sistema;
vi) instalación y puesta en marcha del sistema; y
v) capacitar al usuario final sobre las operaciones y el mantenimiento del sistema;

Garantía

25 años para paneles solares fotovoltaicos, con manufacturero.
25 años para los microinversores Enphase, con manufacturero.
10 años para el sistema de batería, con manufacturero.
2 años para mano de obra y servicios de instalación.

Cotización para:
Advanced Medical Equipment and Services (AMES)
Mayra L Torres Villalobos
Dirección y Coordenadas:
C Albedrio BL3 N9 Urb. Miraflores
Bayamon PR 00961
(18.376713, -66.196628)

SECURE ENERGY
SOLAR ENERGY SYSTEMS

TESLA
ENERGY
CERTIFIED INSTALLER

GOBIERNO DE PUERTO RICO
DACO
DEPARTAMENTO DE ASUNTOS DEL CONSUMIDOR

Cotización

Descripción	Cantidad	Precio/Unidad	Total
(30) JA Solar 405 Watts (JAM54S31 - 405W) (30) Enphase IQ8PLUS microinversores (1) Enphase IQ Combiner Racking System Unirac 2.0 Solarmount Instalacion y Permisologia con LUMA	1	$30,338	$30,338
Tesla Powerwall 2	1	$10,900	$10,900
Tesla Gateway	1	$1,900	$1,900

Total	**$43,138**

60% Apoyo Energético	**$25,883**
40% Solicitante	**$17,255**

Pago Mensual Estimado (4.95%, 12 años)	$159

Aprobaciones

Roberto A. Vázquez
Roberto A. Vázquez, PE
Managing Partner, Ingeniero Eléctrico
rvazquez@secureenergy.net
Licencia de ingeniería: PE-24075
Instalador certificado: PPPE-PV-2447

Alejandro García
Alejandro E. García
Partner
agarcia@secureenergy.net

Aprobación del Cliente

Nombre: Mayra Torres Villalobos Fecha: 10-7-2024 Firma: Mayra Torres

Notas Importantes:

a. Esta cotización es válida por 7 días

b. Secure Energy LLC no es responsable por daños causados por robo y/o desastres naturales. Las alteraciones del sistema anularán automáticamente la garantía.

c. Después de que se presenten todos los documentos de medición neta, la AEE puede realizar un estudio suplementario para evaluar si se necesitarán actualizaciones de equipos en el lado de la red de servicios públicos. En el caso inusual de que la AEE requiera actualizaciones en cualquier equipo de la red, es responsabilidad del cliente cubrir esos gastos, si los hubiera. Secure Energy LLC ayudará completamente al cliente en este proceso.

d. En el caso de que la construcción estructural de la residencia viole un "servidumbre de paso de AEE", la AEE puede requerir que el cliente retire dicha construcción. Aquí se señala que el cliente fue notificado por Secure Energy de tal posibilidad, si corresponde.

Cliente Advanced Medical Equipm
Dirección C Albedrio BL3 N9 Urb. Miraflores
Pueblo Bayamon PR 00961
Fecha 07-October-2024

SECURE ENERGY
SOLAR ENERGY SYSTEMS

Análisis de Consumo de Energía Eléctrica

Mes	Consumo Diario (kWh)	Consumo Mensual (kWh)	Gasto mensual ($0.30 / kWh)
Enero	42.1	1,282	$385
Febrero	40.9	1,243	$373
Marzo	46.6	1,416	$425
Abril	46.0	1,398	$419
Mayo	41.3	1,257	$377
Junio	51.2	1,557	$467
Julio	52.4	1,594	$478
Agosto	50.8	1,546	$464
Semptiembre	49.6	1,508	$452
Octubre	55.9	1,701	$510
Noviembre	54.1	1,645	$494
Diciembre	46.9	1,427	$428
Total	**48.1**	**17,574**	**$5,272**

Energía Consumida/Año (kWh)	**17,574**
# de paneles PV necesarios	**30**
# de paneles PV cotizados	**30**

Análisis Financiero de 25 Años

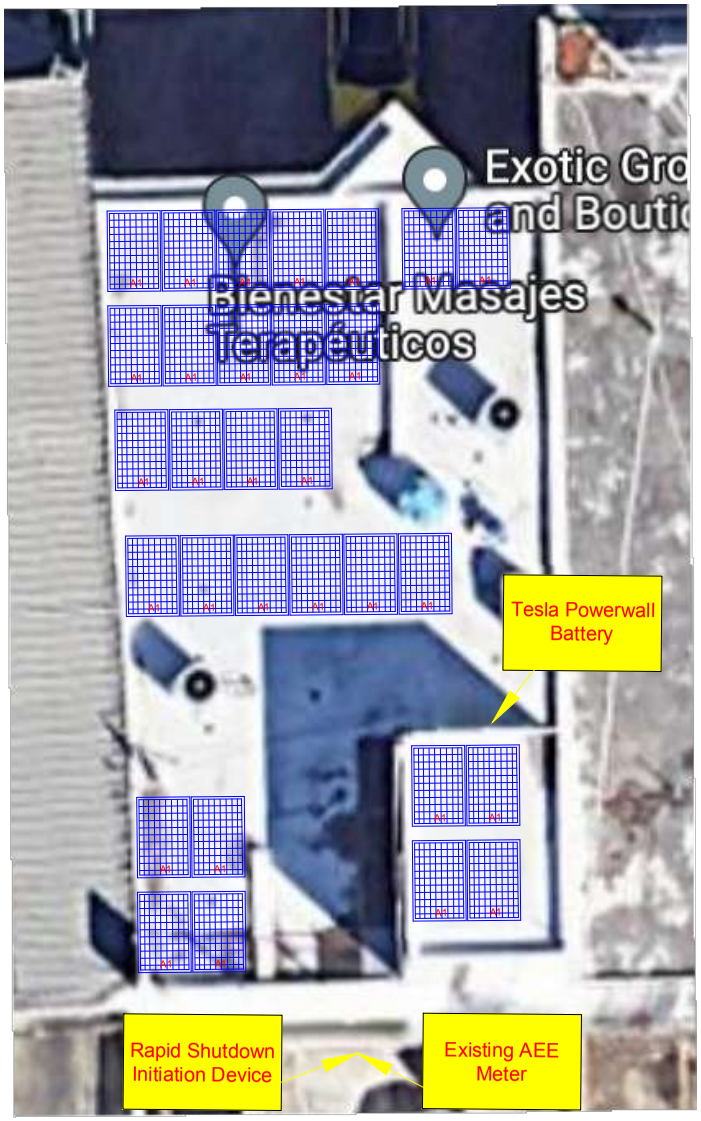
Año	Producción Estimada de Energía Solar (kWh / año)	kWh price	Ahorro Anual de Electricidad	Con Batería: Inversión Inicial	Con Batería: Retorno de Inversión
0	-		$0	-$17,255	-$17,255
1	17,618	$ 0.300	**$5,285**		-$11,970
2	17,507	$ 0.306	$5,357		-$6,612
3	17,397	$ 0.312	$5,430		-$1,182
4	17,287	$ 0.318	$5,504		$4,321
5	17,177	$ 0.325	$5,578		$9,899
6	17,067	$ 0.331	$5,653		$15,552
7	16,957	$ 0.338	$5,729		$21,281
8	16,847	$ 0.345	$5,805		$27,086
9	16,737	$ 0.351	$5,883		$32,969
10	16,627	$ 0.359	$5,961		$38,930
11	16,516	$ 0.366	$6,040		$44,970
12	16,406	$ 0.373	$6,120		$51,090
13	16,296	$ 0.380	$6,200		$57,290
14	16,186	$ 0.388	$6,282		$63,572
15	16,076	$ 0.396	$6,364		$69,935
16	15,966	$ 0.404	$6,446		$76,382
17	15,856	$ 0.412	$6,530		$82,912
18	15,746	$ 0.420	$6,614		$89,526
19	15,636	$ 0.428	$6,699		$96,226
20	15,525	$ 0.437	$6,785		$103,011
21	15,415	$ 0.446	$6,872		$109,883
22	15,305	$ 0.455	$6,959		$116,842
23	15,195	$ 0.464	$7,047		$123,889
24	15,085	$ 0.473	$7,136		$131,026
25	14,975	$ 0.483	$7,226		$138,251

Tasa de retorno:		IRR	**31.9%**
Net Present Value:		NPV	**$117,639**

Asunciones:

a. 2% de aumento de la tarifa de energía por año
b. Reducción de la generación del sistema solar del 15% en el año 25

Roof Plan - PV Layout



System Description	
System Size	12.15 KW (DC) / 8.85 KW (AC)
PV Module Type	(30) JA Solar 405W / JAM54S31
Inverter	(30) Enphase IQ8PLUS Microinverter - 295W
Storage	(1) Tesla Powerwall 2 - 13.5kWh Storage
Racking System	Unirac 2.0 Solarmount racking system

Lat, Long: 18.376722, −66.196633
NAD83: X: 225013.89, Y: 260159.30

SECURE ENERGY
SOLAR ENERGY SYSTEMS

PROJECT:
Miguel Acevedo Garcia
C Albedrio BL3 N9
Urb. Miraflores
Bayamon PR 00961

cuenta AEE: 3474422000

Roberto A. Vázquez García
PE−24075
(787) 633−3155
rvazquez@secureenergy.net

Engineering Stamp

Roberto A. Vazquez García
Ingeniero
Licenciado
Lic. 24075 PE
Puerto Rico

Fecha de Expiración: 2028-01-19

APPROVED BY: R. VAZQUEZ
DATE: 2024−10−03
DRAW #:
SHEET 1 of 2

NREL
NATIONAL RENEWABLE ENERGY LABORATORY

Caution: Photovoltaic system performance predictions calculated by PVWatts® include many inherent assumptions and uncertainties and do not reflect variations between PV technologies nor site-specific characteristics except as represented by PVWatts® inputs. For example, PV modules with better performance are not differentiated within PVWatts® from lesser performing modules. Both NREL and private companies provide more sophisticated PV modeling tools (such as the System Advisor Model at //sam.nrel.gov) that allow for more precise and complex modeling of PV systems.

The expected range is based on 30 years of actual weather data at the given location and is intended to provide an indication of the variation you might see. For more information, please refer to this NREL report: The Error Report.

The energy output range is based on analysis of 30 years of historical weather data, and is intended to provide an indication of the possible interannual variability in generation for a Fixed (open rack) PV system at this location.

RESULTS

17,789 kWh/Year*

Month	Solar Radiation (kWh / m^2 / day)	AC Energy (kWh)
January	4.80	1,374
February	5.49	1,415
March	5.74	1,633
April	5.90	1,589
May	5.43	1,521
June	5.78	1,572
July	5.76	1,624
August	5.41	1,520
September	5.56	1,496
October	4.94	1,392
November	4.81	1,330
December	4.61	1,322
Annual	**5.35**	**17,788**

Location and Station Identification

Requested Location	18.376713, -66.196628
Weather Data Source	Lat, Lng: 18.37, -66.18 1.2 mi
Latitude	18.37° N
Longitude	66.18° W

PV System Specifications

DC System Size	12.150 kW
Module Type	Standard
Array Type	Fixed (roof mount)
System Losses	14.08%
Array Tilt	10°
Array Azimuth	180°
DC to AC Size Ratio	1.2
Inverter Efficiency	96%
Ground Coverage Ratio	0.4
Albedo	*From weather file*
Bifacial	No (0)
Monthly Irradiance Loss	Jan 0% Feb 0% Mar 0% Apr 0% May 0% June 0% July 0% Aug 0% Sept 0% Oct 0% Nov 0% Dec 0%

Su factura de electricidad

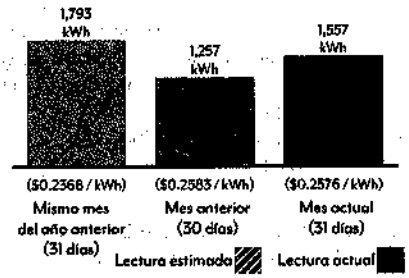
Para el período del 8 de mayo de 2024 al 8 de junio de 2024

MIGUEL A ACEVEDO GARCIA
Su número de cuenta: 3474422000
Fecha de expedición de esta factura: 8 de junio de 2024
Ciclo de facturación: 08

Consejo Para Ahorrar Energía: *¿Cuáles son los beneficios de ahorrar energía? Una factura más económica para usted y energía más confiable para todos. Si trabajamos juntos para reducir nuestro consumo energético, podremos reducir la demanda sobre la red. Esto ayudará a mantener las luces encendidas para todos. Para conocer más, visite: lumapr.com/residencial/ahorrando-energia-y-dinero.*

CANTIDAD TOTAL ADEUDADA	FECHA DE VENCIMIENTO	CONSUMO DE kWh
$725.74	11 jul 2024	1,557 kWh

SU CONSUMO DE ENERGÍA



COMPARACIÓN

Este mes, usted consumió:

23.9% más energía
en comparación con el mes anterior

Y

13.2% menos energía
en comparación con el año anterior

PROMEDIOS

Costo promedio por día
$12.94

Promedio de consumo diario
50 kWh

Costo promedio de 12 meses por kWh
$0.2538

¡En LUMA trabajamos para ti!

¿Necesita más tiempo para pagar su factura? Estamos aquí para ofrecerle soluciones, incluyendo planes de pago flexibles, que podrían estar disponibles para usted y su familia. Para más información, contacte a un representante de servicio al cliente hoy al 1-844-888-5862.

Transformación del sistema eléctrico

Cuídese y proteja a su familia de los estafadores! LUMA nunca lo llamará para solicitarle un pago por teléfono. Para más consejos, visite lumapr.com/combatiendoelfraude

PARA EMERGENCIAS O INTERRUPCIONES EN EL SERVICIO
1-844-888-LUMA (5862)

DIRECCIÓN POSTAL DE LUMA:
PO BOX 363508
San Juan PR 00936-3508

PARA PAGOS Y CONSULTAS
1-844-888-LUMA (5862)

PARA FACTURACIÓN Y MÁS
WWW.LUMAPR.COM

[redacted]

LUMA Energy
PO BOX 363508
San Juan PR 00936-3508

Ley 57-2014, según enmendada: Todos los clientes tienen hasta la fecha de vencimiento para pagar la factura o presentar una objeción a los cargos en la factura. Detalles al dorso.

Incluya este talonario con su pago. No mutile, doble, grape, manche, escriba (excepto la cantidad a pagar) ni use cinta adhesiva en el talonario de pago.

Cuenta: 3474422000
Cantidad adeudada: $725.74
Fecha de vencimiento:
11 de julio de 2024

Cantidad incluida:
$

22515
MIGUEL A ACEVEDO GARCIA
URB MIRAFLORES
3-9 CALLE 2
BAYAMON PR 00957-3754

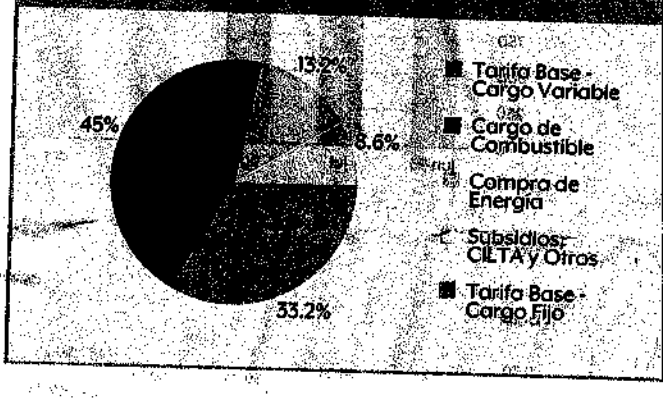
La instalación de un equipo para generar energía de fuentes renovables puede ayudarle a reducir su factura electricidad y LUMA, mediante sus oficinas comerciales o por Internet, le suministrará información sobre có puede cualificar para ingresar al programa de medición neta. Además, existen beneficios contributivos p incentivar la compra de esos equipos sobre los que puede obtener más información en el Programa de Polít Pública Energética.

DETALLE DE LA CUENTA

Balance *Pague Inmediatamente*		**$324.71**
Cantidad adeudada del periodo anterior	*$685.30*	
Pagos acreditados	*-$360.59*	
Cargos corrientes		**$401.03**
Cantidad Total Adeudada		**$725.74**

Depósito(s) o bono(s) recibido(s): $387.75

DESGLOSE DEL CARGO DE ELECTRICIDAD



INFORMACIÓN DEL MEDIDOR Y DEL SERVICIO

Dirección del servicio: C ALBEDRIO BL3 N9 URB MIRAFLORES BAYAMON PR 00961

ID localidad: 3474422297

Tarifa: Servicio Comercial General a Distribución Secundaria

Periodo: 8-may-2024 a 8-jun-2024

Próxima lectura: 8-jul

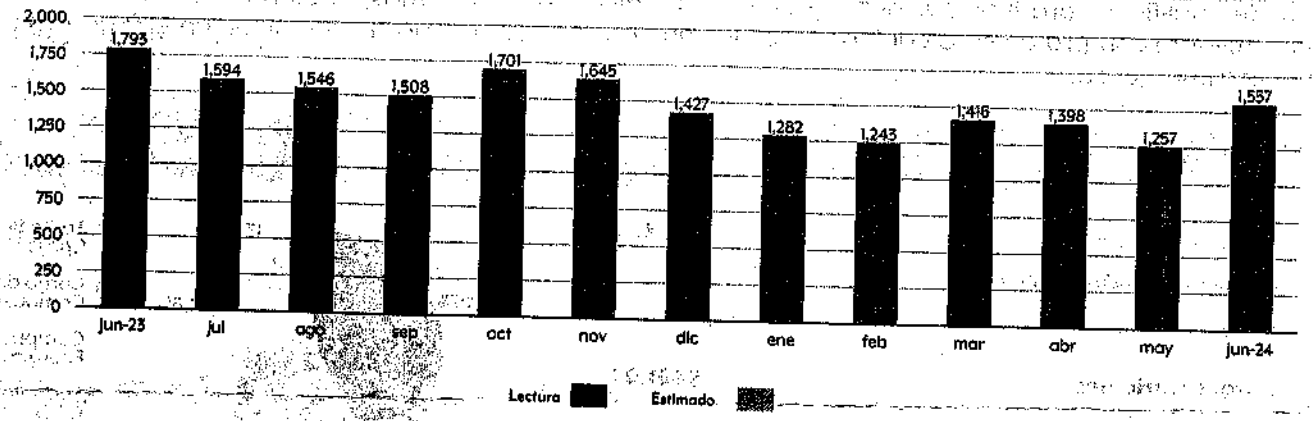
Número de contador	Fecha de lectura	Lectura actual	Fecha de lectura anterior	Lectura anterior	Consumo		Constante
					kWh	Días	
18086421	8-jun	69803.00 L	8-may	68246.00	1,557.00	31	1

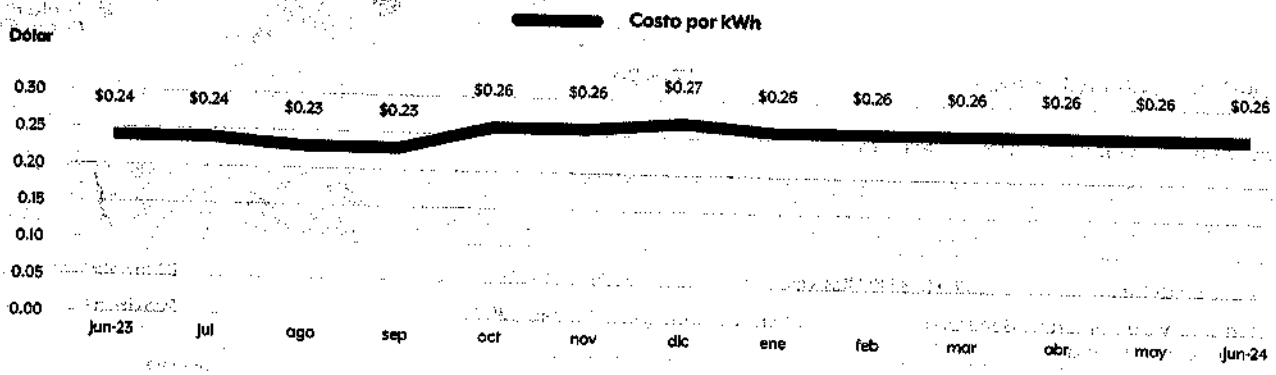
DETALLE DE LOS CARGOS CORRIENTES

DESCRIPCIÓN	TARIFA	CARGO
Cargos por Servicio		
Cargo por Cliente		$5.00
Cargo por Consumo	1,557 kWh x $0.08449	$131.55
Subtotal		**$136.55**
Cláusulas de Reconciliación		
Cláusula FCA-Ajuste Cargo de Combustible	1,557 kWh x $0.114585	$178.41
Cláusula PPCA-Ajuste por Compra de Energía	1,557 kWh x $0.033469	$52.11
Cláusula CILTA-CELI (Municipios)	1,557 kWh x $0.007049	$10.98
Cláusula SUBA-Subsidios HH	1,557 kWh x $0.013717	$21.36
Cláusula SUBA-Subsidios NHH	1,557 kWh x $0.001042	$1.62
Clausula EE-Cargo Eficiencia Energetica	1,557 kWh x $0.00	$0.00
Subtotal		**$264.48**
Total		**$401.03**

HISTORIAL DE CONSUMO (KWH)

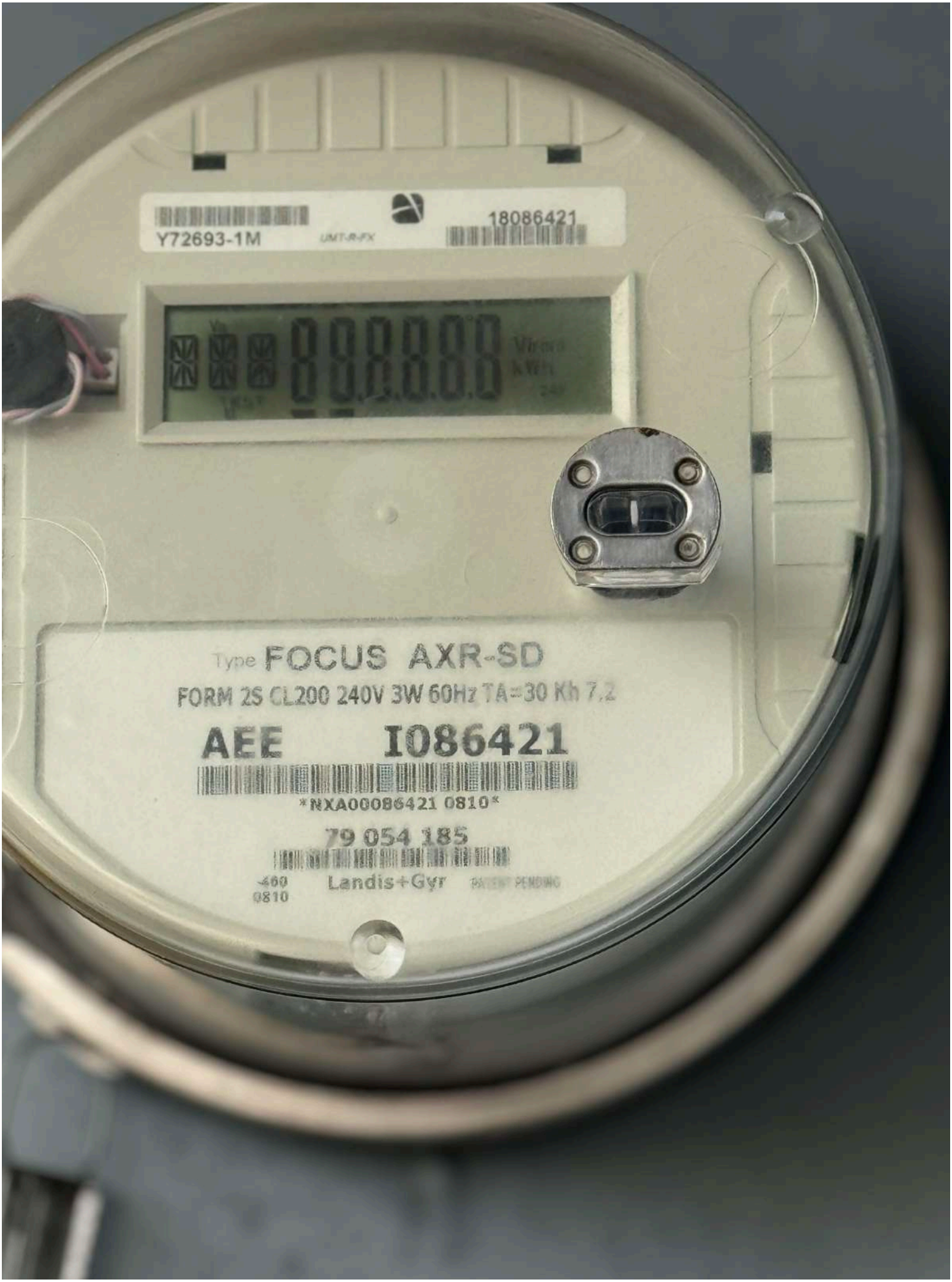
ID localidad: 3474422297






Exotic Gro
and Boutic
Bienestar Masajes
Terapéuticos


BLQ. 3~9


Y72693-1M
UMT-R-FX
18086421
Type FOCUS AXR-SD
FORM 2S CL200 240V 3W 60Hz TA=30 Kh 7.2
AEE I086421
NXA00086421 0810
79 054 185
460
0810
Landis+Gyr


GXOil
BEHR
WATER GUARD
Soiled
Equipment

Introduction

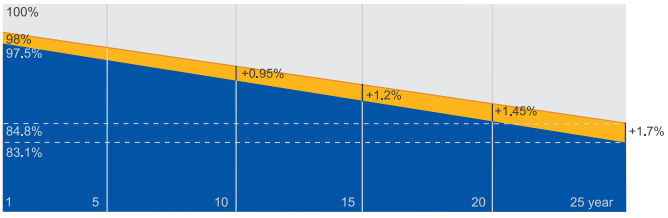
Assembled with 11BB PERC cells, the half-cell configuration of the modules offers the advantages of higher power output, better temperature-dependent performance, reduced shading effect on the energy generation, lower risk of hot spot, as well as enhanced tolerance for mechanical loading.

- Higher output power
- Lower LCOE
- Less shading and lower resistive loss
- Better mechanical loading tolerance

Superior Warranty

- 12-year product warranty
- 25-year linear power output warranty

0.55% Annual Degradation Over 25 years



New linear power warranty ■ Standard module linear power warranty

Comprehensive Certificates

- IEC 61215, IEC 61730,UL 61215, UL 61730
- ISO 9001: 2015 Quality management systems
- ISO 14001: 2015 Environmental management systems
- ISO 45001: 2018 Occupational health and safety management systems
- IEC 62941: 2019 Terrestrial photovoltaic (PV) modules - Quality system for PV module manufacturing

JA SOLAR

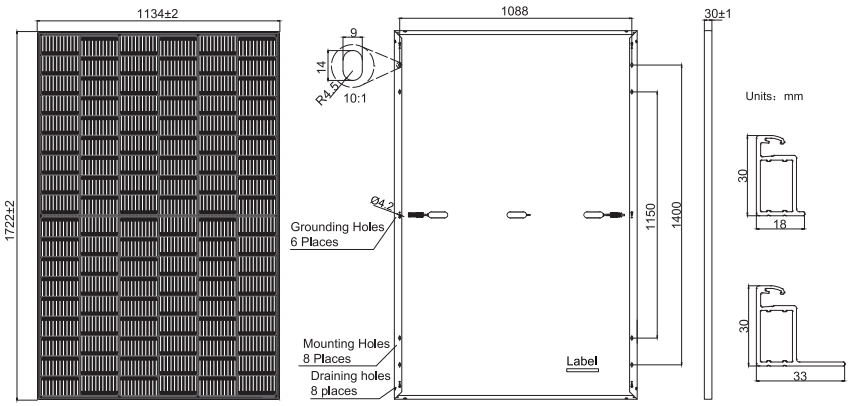
www.jasolar.com

Specifications subject to technical changes and tests.
JA Solar reserves the right of final interpretation.

JA SOLAR

JAM54S31 380-405/MR Series

MECHANICAL DIAGRAMS



Remark: customized frame color and cable length available upon request

SPECIFICATIONS

Cell	Mono
Weight	19.5kg
Dimensions	1722±2mm×1134±2mm×30±1mm
Cable Cross Section Size	4mm²（IEC），12 AWG(UL)
No. of cells	108(6x18)
Junction Box	IP68, 3 diodes
Connector	QC 4.10-35/ MC4-EVO2A
Cable Length (Including Connector)	Portrait: 200mm(+)/300mm(-); 800mm(+)/800mm(-)(Leapfrog) Landscape: 1100mm(+)/1100mm(-)
Front Glass	2.8mm
Packaging Configuration	36pcs/Pallet 936pcs/40HQ Container

ELECTRICAL PARAMETERS AT STC

TYPE	JAM54S31 -380/MR	JAM54S31 -385/MR	JAM54S31 -390/MR	JAM54S31 -395/MR	JAM54S31 -400/MR	JAM54S31 -405/MR
Rated Maximum Power(Pmax) [W]	380	385	390	395	400	405
Open Circuit Voltage(Voc) [V]	36.58	36.71	36.85	36.98	37.07	37.23
Maximum Power Voltage(Vmp) [V]	30.28	30.46	30.64	30.84	31.01	31.21
Short Circuit Current(Isc) [A]	13.44	13.52	13.61	13.70	13.79	13.87
Maximum Power Current(Imp) [A]	12.55	12.64	12.73	12.81	12.90	12.98
Module Efficiency [%]	19.5	19.7	20.0	20.2	20.5	20.7
Power Tolerance	0~+5W					
Temperature Coefficient of Isc(α_Isc)	+0.045%°C					
Temperature Coefficient of Voc(β_Voc)	-0.275%/°C					
Temperature Coefficient of Pmax(γ_Pmp)	-0.350%/°C					
STC	Irradiance 1000W/m², cell temperature 25°C, AM1.5G					

Remark: Electrical data in this catalog do not refer to a single module and they are not part of the offer.They only serve for comparison among different module types.

ELECTRICAL PARAMETERS AT NOCT

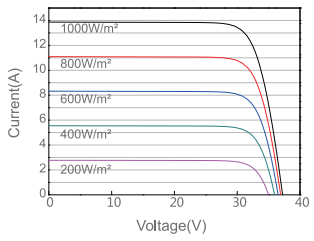
TYPE	JAM54S31 -380/MR	JAM54S31 -385/MR	JAM54S31 -390/MR	JAM54S31 -395/MR	JAM54S31 -400/MR	JAM54S31 -405/MR
Rated Max Power(Pmax) [W]	286	290	294	298	302	306
Open Circuit Voltage(Voc) [V]	34.36	34.49	34.62	34.75	34.88	35.12
Max Power Voltage(Vmp) [V]	28.51	28.68	28.87	29.08	29.26	29.47
Short Circuit Current(Isc) [A]	10.75	10.82	10.89	10.96	11.03	11.10
Max Power Current(Imp) [A]	10.03	10.11	10.18	10.25	10.32	10.38
NOCT	Irradiance 800W/m², ambient temperature 20°C,wind speed 1m/s, AM1.5G					

OPERATING CONDITIONS

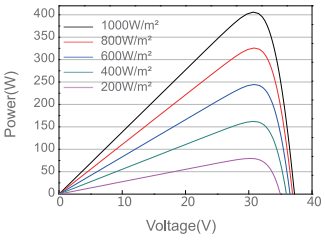
Maximum System Voltage	1000V/1500V DC
Operating Temperature	-40℃~+85℃
Maximum Series Fuse Rating	25A
Maximum Static Load,Front* Maximum Static Load,Back*	5400Pa(112lb/ft²) 2400Pa(50lb/ft²)
NOCT	45±2℃
Safety Class	Class Ⅱ
Fire Performance	UL Type 1

CHARACTERISTICS

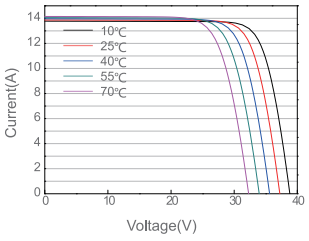
Current-Voltage Curve JAM54S31-405/MR



Power-Voltage Curve JAM54S31-405/MR



Current-Voltage Curve JAM54S31-405/MR



ENPHASE

DATA SHEET

IQ8 and IQ8+ Microinverters

Our newest IQ8 Microinverters are the industry's first microgrid-forming, software-defined microinverters with split-phase power conversion capability to convert DC power to AC power efficiently. The brain of the semiconductor-based microinverter is our proprietary application-specific integrated circuit (ASIC), which enables the microinverter to operate in grid-tied or off-grid modes. This chip is built using advanced 55-nm technology with high-speed digital logic and has superfast response times to changing loads and grid events, alleviating constraints on battery sizing for home energy systems.

Part of the Enphase Energy System, IQ8 Series Microinverters integrate with the IQ Battery, IQ Gateway, and the Enphase App monitoring and analysis software.

Enphase 25 year limited warranty

IQ8 Series Microinverters redefine reliability standards with more than one million cumulative hours of power-on testing, enabling an industry-leading limited warranty of up to 25 years.

Connect PV modules quickly and easily to IQ8 Series Microinverters using the included Q-DCC-2 adapter cable with plug-and-play MC4 connectors.

UL CERTIFIED SAFETY

IQ8 Series Microinverters are UL Listed as PV rapid shutdown equipment and conform with various regulations, when installed according to the manufacturer's instructions.

Easy to install

- Lightweight and compact with plug-and-play connectors
- Power line communication (PLC) between components
- Faster installation with simple two-wire cabling

High productivity and reliability

- Produce power even when the grid is down*
- More than one million cumulative hours of testing
- Class II double-insulated enclosure
- Optimized for the latest high-powered PV modules

Microgrid-forming

- Compliant with the latest advanced grid support**
- Remote automatic updates for the latest grid requirements
- Configurable to support a wide range of grid profiles
- Meets CA Rule 21 (UL 1741-SA) and IEEE 1547:2018 (UL 1741-SB)

NOTE:

- IQ8 Microinverters cannot be mixed with previous generations of Enphase microinverters (IQ7 Series, IQ6 Series, and so on) in the same system.
- IQ Microinverters ship with default settings that meet North America's IEEE 1547 interconnection standard requirements. Region-specific adjustments may be requested by an Authority Having Jurisdiction (AHJ) or utility representative according to the IEEE 1547 interconnection standard. An IQ Gateway is required to make these changes during installation.

*Meets UL 1741 only when installed with IQ System Controller 2 or 3.
**IQ8 and IQ8+ support split-phase, 240 V installations only.

IQ8 and IQ8+ Microinverters

INPUT DATA (DC)	UNITS	IQ8-60-2-US	IQ8PLUS-72-2-US
Commonly used module pairings[1]	W	235–350	235–440
Module compatibility	–	To meet compatibility, PV modules must be within maximum input DC voltage and maximum module I_{sc} listed below. Module compatibility can be checked at https://enphase.com/installers/microinverters/calculator.	
MPPT voltage range	V	27–37	27–45
Operating range	V	16–48	16–58
Minimum/Maximum start voltage	V	22/48	22/58
Maximum input DC voltage	V	50	60
Maximum continuous input DC current	A	10	12
Maximum input DC short-circuit current	A	25	
Maximum module (I_{sc})	A	20	
Overvoltage class DC port	–	II	
DC port backfeed current	mA	0	
PV array configuration	–	Ungrounded array; no additional DC side protection required; AC side protection requires maximum 20 A per branch circuit.	

OUTPUT DATA (AC)	UNITS	IQ8-60-2-US	IQ8PLUS-72-2-US
Peak output power	VA	245	300
Maximum continuous output power	VA	240	290
Nominal grid voltage (L-L)	V	240, split-phase (L-L), 180°	
Minimum and Maximum grid voltage[2]	V	211-264	
Maximum continuous output current	A	1.0	1.21
Nominal frequency	Hz	60	
Extended frequency range	Hz	47–68	
AC short-circuit fault current over three cycles	Arms	2	
Maximum units per 20 A (L-L) branch circuit[3]	–	16	13
Total harmonic distortion	%	<5	
Overvoltage class AC port	–	III	
AC port backfeed current	mA	30	
Power factor setting	–	1.0	
Grid-tied power factor (adjustable)	–	0.85 leading ... 0.85 lagging	
Peak efficiency	%	97.7	
CEC weighted efficiency	%	97	
Nighttime power consumption	mW	23	25

MECHANICAL DATA	
Ambient temperature range	-40°C to 60°C (-40°F to 140°F)
Relative humidity range	4% to 100% (condensing)
DC connector type	MC4
Dimensions (H × W × D)	212 mm (8.3 in) × 175 mm (6.9 in) × 30.2 mm (1.2 in)
Weight	1.08 kg (2.38 lbs)
Cooling	Natural convection–no fans
Approved for wet locations	Yes
Pollution degree	PD3
Enclosure	Class II double-insulated, corrosion-resistant polymeric enclosure
Environmental category/UV exposure rating	NEMA Type 6/Outdoor

(1) No enforced DC/AC ratio.
(2) Nominal voltage range can be extended beyond nominal if required by the utility.
(3) Limits may vary. Refer to local requirements to define the number of microinverters per branch in your area.

POWERWALL

Tesla Powerwall is a fully-integrated AC battery system for residential or light commercial use. Its rechargeable lithium-ion battery pack provides energy storage for solar self-consumption, time-based control, and backup.

Powerwall's electrical interface provides a simple connection to any home or building. Its revolutionary compact design achieves market-leading energy density and is easy to install, enabling owners to quickly realize the benefits of reliable, clean power.

PERFORMANCE SPECIFICATIONS

AC Voltage (Nominal)	120/240 V
Feed-In Type	Split Phase
Grid Frequency	60 Hz
Total Energy[1]	14 kWh
Usable Energy[1]	13.5 kWh
Real Power, max continuous	5 kW (charge and discharge)
Real Power, peak (10 s, off-grid/backup)	7 kW (charge and discharge)
Apparent Power, max continuous	5.8 kVA (charge and discharge)
Apparent Power, peak (10 s, off-grid/backup)	7.2 kVA (charge and discharge)
Maximum Supply Fault Current	10 kA
Maximum Output Fault Current	32 A
Overcurrent Protection Device	30 A
Imbalance for Split-Phase Loads	100%
Power Factor Output Range	+/– 1.0 adjustable
Power Factor Range (full-rated power)	+/– 0.85
Internal Battery DC Voltage	50 V
Round Trip Efficiency[1,2]	90%
Warranty	10 years

[1]Values provided for 25°C (77°F), 3.3 kW charge/discharge power.
[2]AC to battery to AC, at beginning of life.

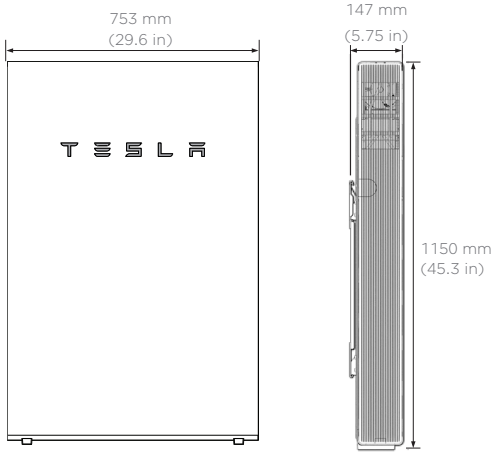
COMPLIANCE INFORMATION

Certifications	UL 1642, UL 1741, UL 1973, UL 9540, IEEE 1547, UN 38.3
Grid Connection	Worldwide Compatibility
Emissions	FCC Part 15 Class B, ICES 003
Environmental	RoHS Directive 2011/65/EU
Seismic	AC156, IEEE 693-2005 (high)

MECHANICAL SPECIFICATIONS

Dimensions[3]	1150 mm x 753 mm x 147 mm (45.3 in x 29.6 in x 5.75 in)
Weight[3]	114 kg (251.3 lbs)
Mounting options	Floor or wall mount

[3]Dimensions and weight differ slightly if manufactured before March 2019. Contact Tesla for additional information.



ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	-20°C to 50°C (-4°F to 122°F)
Recommended Temperature	0°C to 30°C (32°F to 86°F)
Operating Humidity (RH)	Up to 100%, condensing
Storage Conditions	-20°C to 30°C (-4°F to 86°F) Up to 95% RH, non-condensing State of Energy (SoE): 25% initial
Maximum Elevation	3000 m (9843 ft)
Environment	Indoor and outdoor rated
Enclosure Type	NEMA 3R
Ingress Rating	IP67 (Battery & Power Electronics) IP56 (Wiring Compartment)
Wet Location Rating	Yes
Noise Level @ 1m	< 40 dBA at 30°C (86°F)

POWERWALL
Backup Gateway 2

The Backup Gateway 2 for Tesla Powerwall provides energy management and monitoring for solar self-consumption, time-based control, and backup.

The Backup Gateway 2 controls connection to the grid, automatically detecting outages and providing a seamless transition to backup power. When equipped with a main circuit breaker, the Backup Gateway 2 can be installed at the service entrance. When the optional internal panelboard is installed, the Backup Gateway 2 can also function as a load center.

The Backup Gateway 2 communicates directly with Powerwall, allowing you to monitor energy use and manage backup energy reserves from any mobile device with the Tesla app.

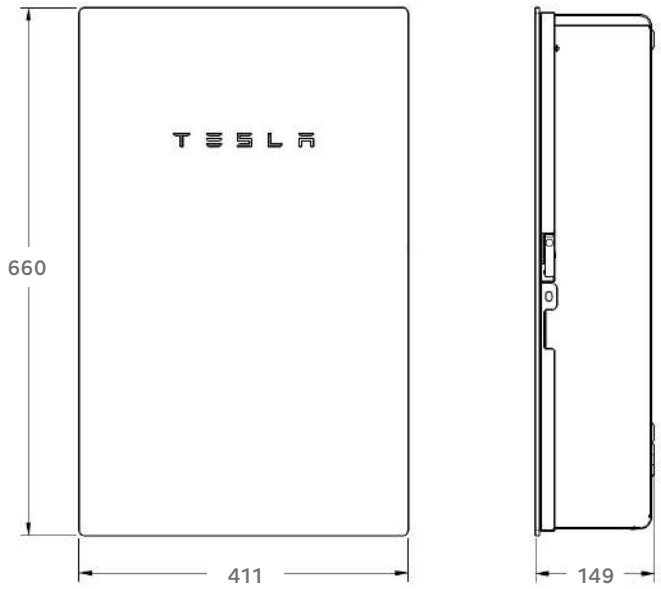
PERFORMANCE SPECIFICATIONS

AC Voltage (Nominal)	120/240V
Feed-In Type	Split Phase
Grid Frequency	60 Hz
Current Rating	200 A
Maximum Input Short Circuit Current	10 kA[1]
Overcurrent Protection Device	100-200A; Service Entrance Rated[1]
Overvoltage Category	Category IV
AC Meter	Revenue accurate (+/– 0.2 %)
Primary Connectivity	Ethernet, Wi-Fi
Secondary Connectivity	Cellular (3G, LTE/4G)[2]
User Interface	Tesla App
Operating Modes	Support for solar self-consumption, time-based control, and backup
Backup Transition	Automatic disconnect for seamless backup
Modularity	Supports up to 10 AC-coupled Powerwalls
Optional Internal Panelboard	200A 6-space / 12 circuit Eaton BR Circuit Breakers
Warranty	10 years

[1] When protected by Class J fuses, Backup Gateway 2 is suitable for use in circuits capable of delivering not more than 22kA symmetrical amperes.
[2] The customer is expected to provide internet connectivity for Backup Gateway 2; cellular should not be used as the primary mode of connectivity. Cellular connectivity subject to network operator service coverage and signal strength.

MECHANICAL SPECIFICATIONS

Dimensions	660 mm x 411 mm x 149 mm (26 in x 16 in x 6 in)
Weight	20.4 kg (45 lb)
Mounting options	Wall mount, Semi-flush mount



COMPLIANCE INFORMATION

Certifications	UL 67, UL 869A, UL 916, UL 1741 PCS CSA 22.2 0.19, CSA 22.2 205
Emissions	FCC Part 15, ICES 003

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	–20°C to 50°C (–4°F to 122°F)
Operating Humidity (RH)	Up to 100%, condensing
Maximum Elevation	3000 m (9843 ft)
Environment	Indoor and outdoor rated
Enclosure Type	NEMA 3R

SOLARMOUNT

UNIRAC

SOLARMOUNT is the professionals' choice for residential PV mounting applications. Every aspect of the system is designed for an easier, faster installation experience. **SOLAR**MOUNT is a complete solution with revolutionary universal clamps, **FLASHKIT** PRO, full system UL 2703 certification and 25-year warranty. Not only is **SOLAR**MOUNT easy to install, but best-in-class aesthetics make it the most attractive on any block!

New & Improved:

THE PROFESSIONALS' CHOICE

With Superior Aesthetics

NOW FEATURING FLASHKIT PRO

The Complete Roof Attachment Solution

FEATURING SHED & SEAL TECHNOLOGY

NOW WITH UNIVERSAL MIDCLAMPS

Accommodates 30mm-51mm module frames

One tool, one-person installs are here!

REVOLUTIONARY NEW ENDCLAMPS

Concealed design and included End Caps

THE PROFESSIONALS' CHOICE FOR RESIDENTIAL RACKING

BEST INSTALLATION EXPERIENCE • CURB APPEAL • COMPLETE SOLUTION • UNIRAC SUPPORT

FOR QUESTIONS OR CUSTOMER SERVICE VISIT UNIRAC.COM OR CALL (505) 248-2702

Appendix 4: EPA's Published Summary of Non-attainment Areas Population Exposure Report & Status of Puerto Rico Designated Areas

EPA’s Published Summary of Nonattainment Areas Population Exposure Report & Status of Puerto Rico Designated Areas

Summary Nonattainment Area Population Exposure Report

Data is current as of June 30, 2025

Ordered by state(s)
The NO_2 nonattainment area became a maintenance area on September 22, 1998. All Carbon Monoxide areas were redesignated to maintenance areas as of September 27, 2010. 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.
Download National Dataset: dbf | xls | Data dictionary (PDF)

State(s)	General Area Name (see note)	2010 Population in 1000s (area count)									
		8-Hour Ozone (2015)	8-Hour Ozone (2008)	PM-2.5 (2012)	PM-2.5 (2006)	PM-2.5 (1997)	PM-10 (1987)	SO_2 (2010)	SO_2 (1971)	Lead (2008)	Lead (1978)
AK	Fairbanks				87(1)						
AZ	Douglas/Paul Spur (Cochise County)						17(1)				
AZ	Hayden/Miami						26(2)	20(2)	5(1)	5(1)	
AZ	Nogales						30(1)				
AZ	Phoenix-Mesa	3,945(1)	3,850(1)				3,853(1)				
AZ	Rillito (Pima County)						1(1)				
AZ	West Pinal				52(1)		283(1)				
AZ	Yuma	87(1)					101(1)				
CA	Amador and Calaveras Cos (Central Mountain Cos)	84(2)	46(1)								
CA	Chico	220(1)	220(1)								
CA	Imperial County	175(1)	175(1)	154(1)	154(1)						
CA	Los Angeles-South Coast Air Basin	15,704(3)	15,723(3)	15,716(1)	15,716(1)	15,716(1)				9,437(1)	
CA	Mariposa and Tuolumne Cos (Southern Mountain Cos)	74(2)	18(1)								
CA	Mono County						0(1)				
CA	Nevada County (Western Part)	82(1)	82(1)								
CA	Owens Valley						7(1)				
CA	Plumas County			6(1)							
CA	Sacramento Metro	2,240(1)	2,241(1)		2,206(1)						
CA	San Diego	3,077(1)	3,095(1)								
CA	San Francisco-Bay Area	6,969(1)	6,973(1)		6,971(1)						

State(s)	General Area Name (see note)	2010 Population in 1000s (area count)									
		8-Hour Ozone (2015)	8-Hour Ozone (2008)	PM-2.5 (2012)	PM-2.5 (2006)	PM-2.5 (1997)	PM-10 (1987)	SO_2 (2010)	SO_2 (1971)	Lead (2008)	Lead (1978)
CA	San Joaquin Valley	3,937(2)	3,938(2)	3,842(1)	3,842(1)	3,842(1)	126(1)				
CA	San Luis Obispo	1(1)	2(1)								
CA	Searles Valley						4(1)				
CA	Southeast Desert Modified AQMA	1,292(2)	1,294(2)				495(2)				
CA	Tuscan Buttes	0(1)	0(1)								
CA	Ventura County	821(1)	823(1)								
CA	Yuba City	0(1)									
CO	Denver-Boulder-Greeley-Ft. Collins-Loveland	3,331(1)	3,330(1)								
CT	Greater Connecticut	1,629(1)	1,629(1)								
DC-MD-VA	Washington	5,136(1)									
GU	Piti-Cabras							6(1)	1(1)		
GU	Tanguisson Power Plant								1(1)		
IA	Muscatine County							30(1)			
ID	Pocatello						1(1)				
IL-IN-WI	Chicago-Joliet-Napier	9,075(1)									
IN	Fort Wayne-Huntington-Auburn							21(1)			
KS	Salina									0(1)	
KY	Henderson-Webster Counties							7(1)			
KY-IN	Louisville	876(1)									
LA	Evangeline Parish							0(1)			
LA	New Orleans							36(1)			
MA-NH	Boston-Worcester-Manchester		17(1)								
MD	Baltimore	2,663(1)	2,663(1)					990(1)			
MI	Allegan County	47(1)									
MI	Benton Harbor	157(1)									
MI	Detroit-Ann Arbor							306(2)			
MI	Muskegon	147(1)									
MN	Minneapolis-St. Paul									9(1)	

State(s)	General Area Name (see note)	2010 Population in 1000s (area count)									
		8-Hour Ozone (2015)	8-Hour Ozone (2008)	PM-2.5 (2012)	PM-2.5 (2006)	PM-2.5 (1997)	PM-10 (1987)	SO_2 (2010)	SO_2 (1971)	Lead (2008)	Lead (1978)
MO	Iron, Dent, and Reynolds Counties									0(1)	
MO	New Madrid County							0(1)			
MO-IL	St. Louis	2,488(1)								5(1)	3(1)
MT	Billings/Laurel								7(1)		
MT	Lame Deer						1(1)				
MT	Polson (Lake County)						4(1)				
MT	Ronan (Lake County)						3(1)				
NV	Las Vegas	1,892(1)									
NY	Jamestown		135(1)								
NY	St. Lawrence County							12(1)			
NY-NJ-CT	New York-N. New Jersey-Long Island	20,217(1)	20,217(1)								
OH	Canton-Massillon									6(1)	
OH	Cleveland-Akron-Elyria	2,780(1)									
OR	Klamath Falls				47(1)						
PA	Clearfield and Indiana Counties							93(1)			
PA	Lancaster		519(1)								
PA	Pittsburgh-New Castle		2,356(1)	1,223(1)	21(1)	21(1)		20(2)	5(1)	18(1)	
PA	Reading		411(1)							49(2)	
PA	Warren County							18(1)			
PA-NJ	Allentown-Bethlehem-Easton		712(1)								
PA-NJ-DE-MD	Philadelphia-Wilmington-Atlantic City	7,437(1)	7,634(2)								
PR	Arecibo									32(1)	
PR	Guayama-Salinas							23(1)			
PR	San Juan							275(1)			
TN	Johnson City-Kingsport-Bristol							15(1)			
TX	Dallas-Fort Worth	6,202(1)	6,280(1)								
TX	Fairfield							4(1)			
TX	Houston-Sugar Land-Baytown	5,773(1)	5,892(1)								
TX	Howard County							0(1)			

State(s)	General Area Name (see note)	2010 Population in 1000s (area count)									
		8-Hour Ozone (2015)	8-Hour Ozone (2008)	PM-2.5 (2012)	PM-2.5 (2006)	PM-2.5 (1997)	PM-10 (1987)	SO_2 (2010)	SO_2 (1971)	Lead (2008)	Lead (1978)
TX	Hutchinson County							15(1)			
TX	Mount Pleasant							0(1)			
TX	Navarro County							2(1)			
TX	San Antonio	1,715(1)									
TX	Tatum							2(1)			
TX-NM	El Paso-Las Cruces	813(1)					652(2)				
UT	Provo	516(1)			518(1)						
UT	Salt Lake City	1,616(1)			1,665(1)				1,030(1)		
UT	Tooele County								58(1)		
UT	Uinta Basin	47(1)									
VA	Giles County							0(1)			
WI	Milwaukee-Racine	1,648(1)									
WI	Sheboygan	68(1)									
WV-OH	Parkersburg-Marietta							4(1)			
WY	Upper Green River Basin		11(1)								
		2010 Population in 1000s (area count) by Pollutant									
Total Estimated 2010 Population in Nonattainment Areas (1000's)		8-Hour Ozone (2015)	8-Hour Ozone (2008)	PM-2.5 (2012)	PM-2.5 (2006)	PM-2.5 (1997)	PM-10 (1987)	SO_2 (2010)	SO_2 (1971)	Lead (2008)	Lead (1978)
Across All Criteria Pollutants: 121,102		114,981 (46)	90,288 (34)	20,942 (5)	31,280 (11)	19,579 (3)	5,605 (20)	1,900 (28)	1,106 (7)	9,561 (11)	3 (1)

The Summary Population Exposure Report is a summary of the population living in an area that is in nonattainment for at least one of the NAAQS.

Area Name:

The "State(s) Area Name" column contains a common or general name for the nonattainment areas on the row, but may not reflect the exact name of any area on the row. This column cannot be exact since the nonattainment area for one pollutant may not contain the same counties, cities, or states as the nonattainment area for another pollutant on the same row. The abbreviations listed in the "State(s)" column reflect all states identified in row. However, some states on a row may be nonattainment for some pollutants and not for others in the general area. A multi-state area with states that have not all been redesignated to maintenance is counted as a nonattainment area until all of the states in the area are redesignated, with the whole area population displayed.

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

Data is current as of June 30, 2025

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

* The 1997 Primary Annual PM-2.5 NAAQS (level of 15 μg/m^3) 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

Download National Dataset: dbf | xls | Data dictionary (PDF)

County	NAAQS	Area Name	Nonattainment in Year	Redesignation to Maintenance	Classification	Whole or/ Part County	Population (2010)	State/ County FIPS Codes
PUERTO RICO								
Arecibo Municipio	Lead (2008)	Arecibo, PR	11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	/ /		Part	32,185	72/013
Bayamon Municipio	Sulfur Dioxide (2010)	San Juan, PR	18 19 20 21 22 23 24 25	/ /		Part	22,921	72/021
Catano Municipio	Sulfur Dioxide (2010)	San Juan, PR	18 19 20 21 22 23 24 25	/ /		Whole	28,140	72/033
Guaynabo Municipio	PM-10 (1987)	Mun. of Guaynabo, PR	92 93 94 95 96 97 98 99 00 01 02 03 04 05 06 07 08 09	02/11/2010	Moderate	Part	90,470	72/061
Guaynabo Municipio	Sulfur Dioxide (2010)	San Juan, PR	18 19 20 21 22 23 24 25	/ /		Part	23,802	72/061
Salinas Municipio	Sulfur Dioxide (2010)	Guayama-Salinas, PR	18 19 20 21 22 23 24 25	/ /		Part	23,401	72/123
San Juan Municipio	Sulfur Dioxide (2010)	San Juan, PR	18 19 20 21 22 23 24 25	/ /		Part	147,963	72/127
Toa Baja Municipio	Sulfur Dioxide (2010)	San Juan, PR	18 19 20 21 22 23 24 25	/ /		Part	52,441	72/137

Important Notes

Status of Puerto Rico Designated Areas

Puerto Rico Areas by NAAQS

NOTE: As of 03/12/2021, these reports are no longer being updated. For the latest information, see the SIP Status Tools.

Jump to Puerto Rico section for: CO (1971) Lead (1978) Lead (2008) NO2 (1971) Ozone-1Hr (1979) Ozone-8Hr (1997) Ozone-8Hr (2008) Ozone-8Hr (2015) PM-10 (1987) PM-2.5 (1997) PM-2.5 (2006) PM-2.5 (2012) SO2 (1971) SO2 (2010)

Puerto Rico CO (1971) Areas

Return to map

No designated areas for this pollutant.

Puerto Rico Lead (1978) Areas

Return to map Top of page

No designated areas for this pollutant.

Puerto Rico Lead (2008) Areas

Return to map Top of page

Click on the Area name to view SIP Required Elements Area	Status	Designation Date	Classification	2010 Population (state portion)	Meets NAAQS Basis	Design Value Annual (µg/m³) (entire area)	Meets NAAQS	SIP Requirements Original/ Approved	Clean Air Determination Citation Effective Date Click to view FR notice	Redesignation Request Date	Redesignation Citation Effective Date Click to view FR notice
Arecibo	Nonattainment	12/31/2011		32,185	2017-2019	0.18	No	6 / 6			

Puerto Rico NO2 (1971) Areas

Return to map Top of page

No designated areas for this pollutant.

Puerto Rico Ozone-1Hr (1979) Areas

Return to map Top of page

No designated areas for this pollutant.

Puerto Rico Ozone-8Hr (1997) Areas

Return to map Top of page

No designated areas for this pollutant.

Puerto Rico Ozone-8Hr (2008) Areas

Return to map Top of page

No designated areas for this pollutant.

Puerto Rico Ozone-8Hr (2015) Areas

Return to map Top of page

No designated areas for this pollutant.

Puerto Rico PM-10 (1987) Areas

Return to map Top of page

Click on the Area name to view SIP Required Elements Area	Status	Designation Date	Classification	2010 Population (state portion)	Meets NAAQS Basis	Average Estimated Exceedances (est. exc.) (entire area)	Meets NAAQS	SIP Requirements Original/ Approved	Clean Air Determination Citation Effective Date Click to view FR notice	Redesignation Request Date	Redesignation Citation Effective Date Click to view FR notice
Guaynabo County	Maintenance	11/15/1990	Moderate	90,470	2017-2019		Insufficient Data	3 / 3		03/31/2009	02/11/2010 75 FR 1543

Puerto Rico PM-2.5 (1997) Areas

Return to map Top of page

No designated areas for this pollutant.

Puerto Rico PM-2.5 (2006) Areas

Return to map Top of page

No designated areas for this pollutant.

Puerto Rico PM-2.5 (2012) Areas

Return to map Top of page

No designated areas for this pollutant.

Puerto Rico SO2 (1971) Areas

Return to map Top of page

No designated areas for this pollutant.

Puerto Rico SO2 (2010) Areas

Return to map Top of page

Click on the Area name to view SIP Required Elements Area	Status	Designation Date	Classification	2010 Population (state portion)	Meets NAAQS Basis	3 Year 1-Hour Design Value (ppb) (entire area)	Meets NAAQS	SIP Requirements Original/ Approved	Clean Air Determination Citation Effective Date Click to view FR notice	Redesignation Request Date	Redesignation Citation Effective Date Click to view FR notice
Guayama-Salinas	Nonattainment	04/09/2018		23,401	2017-2019		No Data	6 / 0			
San Juan	Nonattainment	04/09/2018		275,267	2017-2019		No Data	6 / 0			

We have made our best effort to ensure that the data contained in these reports is accurate. We note that there may be brief delays in updating the reports as we receive new state submissions and we take rulemaking action on plans. In order to assist us in providing accurate information, we request that you contact us by clicking on the "Contact Us" link near the top of this page with any comments regarding or corrections to the posted information, including concerns about whether the entries reflect the most recent status.

Current and historical design value data can be found on the EPA Air Quality Design Values website and the EPA Green Book contains comprehensive nonattainment area, designation status, and historical information.

The level of the 1-hour NAAQS for sulfur dioxide is 75 parts per billion (ppb) calculated as the 3-year average of the 99th percentile of the annual distribution of daily maximum 1-hour average concentrations.

Appendix 5: RADON Memo to file and supporting documentations

DEPARTMENT OF
HOUSING
GOVERNMENT OF PUERTO RICO

CDBG-DR FUNDS
CDBG-MIT FUNDS

Memorandum to File

Date: July 1, 2025

From: Patricia Carmenatty Santiago
Environmental Specialist
Behar Ybarra & Associates LLC
CDBG-DR Program
Electrical Power Reliability and Resilience Program (ER2)
Puerto Rico Department of Housing

Application Number: PR-ESP-00230
Project: Advanced Medical Equipment & Services Inc

Re: Justification for the Infeasibility and Impracticability of Radon Testing

After reviewing Application Number PR-ESP-00230 under the Electrical Power Reliability and Resilience Program (ER2), administered by the Puerto Rico Department of Housing (**PRDOH**), to complete the property's contamination analysis in accordance with 24 C.F.R. § 50.3(i) and 24 C.F.R. § 58.5(i), we have determined that testing the property's radon levels is infeasible and impracticable.

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

- As required by the CPD Notice 23-103, the scientific data reviewed in lieu of testing must consist of a minimum of ten documented test results over the previous ten years. If there are less than ten documented results over this period, it is understood that there is a lack of scientific data. The latest report

for radon testing in Puerto Rico was prepared in 1995 by the U.S. Department of the Interior in Cooperation with the U.S. Environmental Protection Agency. No other completed studies and reports on radon testing are available in Puerto Rico.

- There is no available science-based or state-generated information for Puerto Rico for the last ten years that can be used to determine whether the project site is in a high-risk area. The Department of Health and Human Services, Centers for Disease Control and Prevention (**CDC**), National Environmental Public Health Tracking, and Radon Testing map do not include Puerto Rico data.

- There are only two (2) licensed professionals in Puerto Rico who can conduct radon testing using the American National Standards Institute/American Association of Radon Scientists and Technologists (**ANSI/AARST**) testing standards, which makes it difficult, time-consuming, and highly expensive to coordinate and secure a site visit for the contamination evaluation.

- Do-it-yourself (**DIY**) radon test kits are known to be unreliable in assuring and controlling the quality of the test results; they are not readily available in Puerto Rico, and the cost and time required for purchasing and sending them for analysis are unreasonable when weighed against the results' reliability and the need for prompt results.

- Local authorities in Puerto Rico do not have the specialized radon monitoring equipment or trained staff needed to conduct the radon testing analysis and ensure proper quality control and quality assurance practices are adhered to. We also do not have a radiation laboratory certified for radon testing.

- Local authorities in Puerto Rico do not have the specialized radon monitoring equipment or trained staff needed to conduct the radon testing analysis and ensure proper quality control and quality assurance practices are adhered to. We also do not have a radiation laboratory certified for radon testing.

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

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

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

GOVERNMENT OF PUERTO RICO
DEPARTMENT OF HOUSING

August 20, 2024

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

Via email: guerrero.carmen@epa.gov

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

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

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

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

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

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

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

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

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

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

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

Sincerely,

William O. Rodríguez Rodríguez, Esq.
Secretary

Cc:
Mr. Oleg Povetko, Povetko.Oleg@epa.gov
Mr. Matthew Laurita, laurita.matthew@epa.gov

GOVERNMENT OF PUERTO RICO
DEPARTMENT OF HOUSING

August 20, 2024

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

Via email: silvina.cancelos@upr.edu

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

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Barbosa Ave. #606, Building Juan C. Cordero Dávila, Río Piedras, PR 00918 | PO Box 21365 San Juan, PR 00928-1365
Tel. (787) 274-2527 | www.vivienda.pr.gov

CDBG-DR/MIT Program
Request for Information in relation with HUD CPD-23-103 for Puerto Rico
Page 2 / 2

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Sincerely,

William O. Rodríguez Rodríguez, Esq.
Secretary

Cc:
Dr. Carlos Marín, carlos.marin3@upr.edu

GOVERNMENT OF PUERTO RICO
DEPARTMENT OF HOUSING

August 20, 2024

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

Vía email: OIA@cdc.gov

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

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Sincerely,

William O. Rodríguez Rodríguez, Esq.
Secretary

GOVERNMENT OF PUERTO RICO
DEPARTMENT OF HOUSING

August 20, 2024

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

Vía email: anais.rodriguez@drna.pr.gov

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

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Sincerely,

William O. Rodríguez Rodríguez, Esq.
Secretary

Cc:
Mr. Luis Márquez, secretariaaire@drna.pr.gov
Eng. Amarilys Rosario, aire@drna.pr.gov
Mrs. Elid Ortega, eortega@drna.pr.gov

GOVERNMENT OF PUERTO RICO
DEPARTMENT OF HOUSING

August 20, 2024

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

Vía email: drcarlos.mellado@salud.pr.gov

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

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Sincerely,

William O. Rodríguez Rodríguez, Esq.
Secretary

Cc:
Mr. Raúl Hernández Doble, rhernandez2@salud.pr.gov

GOVERNMENT OF PUERTO RICO
DEPARTMENT OF HOUSING

August 20, 2024

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

Vía email: hsweyers@usgs.gov

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

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

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CDBG-DR/MIT Program
Request for Information in relation with HUD CPD-23-103 for Puerto Rico
Page 2 / 2

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Sincerely,

William O. Rodríguez Rodríguez, Esq.
Secretary

Cc:
Mr. R. Randall Schumann, rschumann@usgs.gov

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

Good morning, Sandra and others,

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

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

If you have any additional questions, please contact me.

Thank you and best regards,

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

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

Dear Ms. Medina Smaine,

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

Best regards,

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

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

Good afternoon. Ms. Medina

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

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

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

Saludos.

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

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

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

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

Atentamente

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

Bubble Dynamics Lab
University of Puerto Rico - Mayagüez

EPA REGION 2
CARIBBEAN ENVIRONMENTAL PROTECTION DIVISION

September 23, 2024

VIA EMAIL

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

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

Dear Honorable Secretary Rodríguez Rodríguez:

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

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

Due to the lack of data in Puerto Rico, EPA undertook an investigation in collaboration with the University of Puerto Rico-Mayaguez (UPRM) Campus, Departments of Civil Engineering and Surveying and Mechanical Engineering, to find out if radon presented a problem in Puerto Rico. Up until 2021, the only data we had for Puerto Rico was a 1993-1995 mail-in radon screening study referred to by the U.S. Geological Survey report (USGS, 1995) in which the USGS concluded that several areas of Puerto Rico have the geologic potential to generate indoor radon levels exceeding the EPA Action Level of 4 pCi/L (picocuries per liter), perhaps locally reaching very high levels above 50 pCi/L, if a house construction and ventilation allow for soil-gas radon to enter and concentrate within the structure.[1] According to the USGS report, most of these areas are located in the northwest part of the island. Please note that the actual 1993-1995 study documentation is not available to the EPA.

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

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

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

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

CITY VIEW PLAZA II BUILDING, 7TH FLOOR
ROUTE 165 GUAYNABO, PR 00968

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

Sincerely,

CARMEN GUERRERO PEREZ

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

Carmen R. Guerrero Pérez
Director

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

ECHO Reports

Detailed Facility Report

Facility Summary

LA PROVIDENCIA ESSO

RD 861 KM 3.9 BUCARABONES WARD, TOA ALTA, PR 00953

FRS (Facility Registry Service) ID: 110007815720

EPA Region: 02

Latitude: 18.375445

Longitude: -66.203627

Locational Data Source: RCRAINFO

Industries: --

Indian Country: N

Enforcement and Compliance Summary

Statute	RCRA
Compliance Monitoring Activities (5 years)	--
Date of Last Compliance Monitoring Activity	--
Compliance Status	No Violation Identified
Qtrs in Noncompliance (of 12)	0
Qtrs with Significant Violation	0
Informal Enforcement Actions (5 years)	--
Formal Enforcement Actions (5 years)	--
Penalties from Formal Enforcement Actions (5 years)	--
EPA Cases (5 years)	--
Penalties from EPA Cases (5 years)	--

Regulatory Information

Clean Air Act (CAA): No Information

Clean Water Act (CWA): No Information

Resource Conservation and Recovery Act (RCRA): Inactive Other, (PRO008006470)

Safe Drinking Water Act (SDWA): No Information

Other Regulatory Reports

Air Emissions Inventory (EIS): No Information

Greenhouse Gas Emissions (eGGRT): No Information

Toxic Releases (TRI): No Information

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

Go To Enforcement/Compliance Details

Known Data Problems <https://epa.gov/resources/echo-data/known-data-problems>

Facility/System Characteristics

Facility/System Characteristics

System	Statute	Identifier	Universe	Status	Areas	Permit Expiration Date	Indian Country	Latitude	Longitude
FRS		110007815720					N	18.375445	-66.203627
RCRAInfo	RCRA	PRO008006470	Other	Inactive ( )			N	18.375445	-66.203627

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110007815720	LA PROVIDENCIA ESSO	RD 861 KM 3.9 BUCARABONES WARD, TOA ALTA, PR 00953	Toa Alta Municipio
RCRAInfo	RCRA	PRO008006470	LA PROVIDENCIA ESSO	RD 861 KM 3.9 BUCARABONES WARD, TOA ALTA, PR 00953	Toa Alta Municipio

Facility SIC (Standard Industrial Classification) Codes

System	Identifier	SIC Code	SIC Description

No data records returned

Facility NAICS (North American Industry Classification System) Codes

System	Identifier	NAICS Code	NAICS Description

No data records returned

Facility Tribe Information

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

No data records returned

Enforcement and Compliance

Compliance Monitoring History

Last 5 Years

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

No data records returned

Entries in italics are not included in ECHO's Compliance Monitoring Activity counts because they are not compliance monitoring strategy <https://www.epa.gov/compliance/compliance-monitoring-programs> *activities or because they are not counted as inspections within EPA's Annual Results* <https://www.epa.gov/enforcement/enforcement-data-and-results>.

Compliance Summary Data

Statute	Source ID	Current SNC (Significant Noncompliance)/HPV (High Priority Violation)	Current As Of	Qtrs with NC (Noncompliance) (of 12)	Data Last Refreshed
RCRA	PRO008006470	No	05/31/2025	0	05/30/2025

Three-Year Compliance History by Quarter

Statute	Program/Pollutant/Violation Type		QTR 1	QTR 2	QTR 3	QTR 4	QTR 5	QTR 6	QTR 7	QTR 8	QTR 9	QTR 10	QTR 11
RCRA (Source ID: PRO008006470)			07/01-09/30/22	10/01-12/31/22	01/01-03/31/23	04/01-06/30/23	07/01-09/30/23	10/01-12/31/23	01/01-03/31/24	04/01-06/30/24	07/01-09/30/24	10/01-12/31/24	01/01-03/31/25
	Facility-Level Status		No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified
	Violation	Agency											

Informal Enforcement Actions

Last 5 Years

Statute	System	Source ID	Type of Action	Lead Agency	Date

No data records returned

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

Formal Enforcement Actions

Last 5 Years

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

No data records returned

Environmental Conditions

Watersheds

12-Digit WBD (Watershed Boundary Dataset) HUC (RAD (Reach Address Database))	WBD (Watershed Boundary Dataset) Subwatershed Name (RAD (Reach Address Database))	State Water Body Name (ICIS (Integrated Compliance Information System))	Beach Closures Within Last Year	Beach Closures Within Last Two Years	Pollutants Potentially Related to Impairment	Watershed with ESA (Endangered Species Act)-listed Aquatic Species?

No data records returned

Assessed Waters From Latest State Submission (ATTAINS)

State	Report Cycle	Assessment Unit ID	Assessment Unit Name	Water Condition	Cause Groups Impaired	Drinking Water Use	Ecological Use	Fish Consumption Use	Recreation Use	Other Use

No data records returned

Air Quality Nonattainment Areas

Pollutant	Within Nonattainment Status Area?	Nonattainment Status Applicable Standard(s)	Within Maintenance Status Area?	Maintenance Status Applicable Standard(s)

No data records returned

Pollutants

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

TRI Facility ID	Year	Air Emissions	Surface Water Discharges	Off-Site Transfers to POTWs (Publicly Owned Treatment Works)	Underground Injections	Disposal to Land	Total On-Site Releases	Total Off-Site Transfers

No data records returned

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

Chemical Name

No data records returned

Community

Demographic Profile of Surrounding Area (1-Mile Radius)

This section provides demographic information regarding the community surrounding the facility. ECHO compliance data alone are not sufficient to determine whether violations at a particular facility had negative impacts on public health or the environment. Statistics are based upon the 2022 American Community Survey (ACS) 5-year Summary and are accurate to the extent that the facility latitude and longitude listed below are correct. Census boundaries and demographic data for U.S. Territories are based on the "2020 Island Areas Demographic Profiles" from the U.S. Census Bureau. EPA's spatial processing methodology considers the overlap between the selected radii and ACS census block groups in determining the demographics surrounding the facility. For more detail about this methodology, see the DFR Data Dictionary <https://epa.gov/help/reports/dfr-data-dictionary#demographic>.

General Statistics (ACS (American Community Survey))	
Total Persons	25,443
Population Density	8,151/sq.mi.
Housing Units in Area	9,975
Percent People of Color	99%
Households in Area	8,645
Households on Public Assistance	461
Persons With Low Income	16,275
Percent With Low Income	64%

Geography	
Radius of Selected Area	1 mi.
Center Latitude	18.375445
Center Longitude	-66.203627
Total Area	--
Land Area	100%
Water Area	0%

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than $15,000	2,015 (23.3%)
$15,000 - $25,000	1,494 (17.28%)
$25,000 - $50,000	2,428 (28.08%)
$50,000 - $75,000	1,369 (15.83%)
Greater than $75,000	1,342 (15.52%)

Age Breakdown (ACS (American Community Survey)) - Persons (%)	
Children 5 years and younger	832 (3%)
Minors 17 years and younger	4,614 (18%)
Adults 18 years and older	20,824 (82%)
Seniors 65 years and older	3,920 (15%)

Race Breakdown (ACS (American Community Survey)) - Persons (%)	
White	11,249 (44%)
African-American	1,446 (6%)
Hispanic-Origin	25,226 (99%)
Asian	28 (0%)
Hawaiian/Pacific Islander	0 (0%)
American Indian	23 (0%)
Other/Multiracial	5,325 (21%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	1,555 (8.71%)
9th through 12th Grade	1,022 (5.73%)
High School Diploma	4,149 (23.25%)
Some College/2-year	2,531 (14.18%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	5,301 (29.7%)

Detailed Facility Report

Facility Summary

RENE AUTO REPAIR

CALLE 1, B-16, BAYAMON, PR 00957

FRS (Facility Registry Service) ID: 110001662077

EPA Region: 02

Latitude: 18.37566

Longitude: -66.19515

Locational Data Source: FRS

Industries: --

Indian Country: N

Enforcement and Compliance Summary

Statute	CAA
Compliance Monitoring Activities (5 years)	--
Date of Last Compliance Monitoring Activity	--
Compliance Status	No Violation Identified
Qtrs in Noncompliance (of 12)	0
Qtrs with Significant Violation	0
Informal Enforcement Actions (5 years)	--
Formal Enforcement Actions (5 years)	--
Penalties from Formal Enforcement Actions (5 years)	--
EPA Cases (5 years)	--
Penalties from EPA Cases (5 years)	--

Regulatory Information

Clean Air Act (CAA): Operating Minor (PR0000007202100217)

Clean Water Act (CWA): No Information

Resource Conservation and Recovery Act (RCRA): No Information

Safe Drinking Water Act (SDWA): No Information

Other Regulatory Reports

Air Emissions Inventory (EIS): No Information

Greenhouse Gas Emissions (eGGRT): No Information

Toxic Releases (TRI): No Information

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

Go To Enforcement/Compliance Details

Known Data Problems <https://epa.gov/resources/echo-data/known-data-problems>

Facility/System Characteristics

Facility/System Characteristics

System	Statute	Identifier	Universe	Status	Areas	Permit Expiration Date	Indian Country	Latitude	Longitude
FRS		110001662077					N	18.37566	-66.19515
ICIS-Air	CAA	PR0000007202100217	Minor Emissions	Operating	CAACFC		N	18.37566	-66.19515

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110001662077	RENE AUTO REPAIR	CALLE 1, B-16, BAYAMON, PR 00957	Bayamón Municipio

System	Statute	Identifier	Facility Name	Facility Address	Facility County
ICIS-Air	CAA	PR0000007202100217	RENE AUTO REPAIR	CALLE 1, B-16, BAYAMON, PR 00957	Bayamón Municipio

Facility SIC (Standard Industrial Classification) Codes

System	Identifier	SIC Code	SIC Description
ICIS-Air	PR0000007202100217	7539	Automotive Repair Shops

Facility NAICS (North American Industry Classification System) Codes

System	Identifier	NAICS Code	NAICS Description
ICIS-Air	PR0000007202100217	999999	

Facility Tribe Information

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

No data records returned

Enforcement and Compliance

Compliance Monitoring History

Last 5 Years

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

No data records returned

Entries in italics are not included in ECHO's Compliance Monitoring Activity counts because they are not compliance monitoring strategy <https://www.epa.gov/compliance/compliance-monitoring-programs> *activities or because they are not counted as inspections within EPA's Annual Results* <https://www.epa.gov/enforcement/enforcement-data-and-results>.

Compliance Summary Data

Statute	Source ID	Current SNC (Significant Noncompliance)/HPV (High Priority Violation)	Current As Of	Qtrs with NC (Noncompliance) (of 12)	Data Last Refreshed
CAA	PR0000007202100217	No	05/31/2025	0	05/30/2025

Three-Year Compliance History by Quarter

Statute	Program/Pollutant/Violation Type	QTR 1	QTR 2	QTR 3	QTR 4	QTR 5	QTR 6	QTR 7	QTR 8	QTR 9	QTR 10	
CAA (Source ID: PR0000007202100217)		07/01-09/30/22	10/01-12/31/22	01/01-03/31/23	04/01-06/30/23	07/01-09/30/23	10/01-12/31/23	01/01-03/31/24	04/01-06/30/24	07/01-09/30/24	10/01-12/31/24	01/0
	Facility-Level Status	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No I
	HPV History											
	Violation Type / Agency / Programs / Pollutants											

Informal Enforcement Actions

Last 5 Years

Statute	System	Source ID	Type of Action	Lead Agency	Date

No data records returned

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

Formal Enforcement Actions

Last 5 Years

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

No data records returned

Environmental Conditions

Watersheds

12-Digit WBD (Watershed Boundary Dataset) HUC (RAD (Reach Address Database))	WBD (Watershed Boundary Dataset) Subwatershed Name (RAD (Reach Address Database))	State Water Body Name (ICIS (Integrated Compliance Information System))	Beach Closures Within Last Year	Beach Closures Within Last Two Years	Pollutants Potentially Related to Impairment	Watershed with ESA (Endangered Species Act)-listed Aquatic Species?

No data records returned

Assessed Waters From Latest State Submission (ATTAINS)

State	Report Cycle	Assessment Unit ID	Assessment Unit Name	Water Condition	Cause Groups Impaired	Drinking Water Use	Ecological Use	Fish Consumption Use	Recreation Use	Other Use

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Air Quality Nonattainment Areas

Pollutant	Within Nonattainment Status Area?	Nonattainment Status Applicable Standard(s)	Within Maintenance Status Area?	Maintenance Status Applicable Standard(s)

No data records returned

Pollutants

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

TRI Facility ID	Year	Air Emissions	Surface Water Discharges	Off-Site Transfers to POTWs (Publicly Owned Treatment Works)	Underground Injections	Disposal to Land	Total On-Site Releases	Total Off-Site Transfers

No data records returned

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

Chemical Name

No data records returned

Community

Demographic Profile of Surrounding Area (1-Mile Radius)

This section provides demographic information regarding the community surrounding the facility. ECHO compliance data alone are not sufficient to determine whether violations at a particular facility had negative impacts on public health or the environment. Statistics are based upon the 2022 American Community Survey (ACS) 5-year Summary and are accurate to the extent that the facility latitude and longitude listed below are correct. Census boundaries and demographic data for U.S. Territories are based on the "2020 Island Areas Demographic Profiles" from the U.S. Census Bureau. EPA's spatial processing methodology considers the overlap between the selected radii and ACS census block groups in determining the demographics surrounding the facility. For more detail about this methodology, see the DFR Data Dictionary <https://epa.gov/help/reports/dfr-data-dictionary#demographic>.

General Statistics (ACS (American Community Survey))	
Total Persons	27,904
Population Density	8,940/sq.mi.
Housing Units in Area	11,414
Percent People of Color	99%
Households in Area	9,783
Households on Public Assistance	307
Persons With Low Income	17,494
Percent With Low Income	63%

Geography	
Radius of Selected Area	1 mi.
Center Latitude	18.37566
Center Longitude	-66.19515
Total Area	--
Land Area	100%
Water Area	0%

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than $15,000	2,405 (24.59%)
$15,000 - $25,000	1,526 (15.6%)
$25,000 - $50,000	2,905 (29.7%)
$50,000 - $75,000	1,444 (14.76%)
Greater than $75,000	1,501 (15.35%)

Age Breakdown (ACS (American Community Survey)) - Persons (%)	
Children 5 years and younger	837 (3%)
Minors 17 years and younger	4,410 (16%)
Adults 18 years and older	23,492 (84%)
Seniors 65 years and older	5,493 (20%)

Race Breakdown (ACS (American Community Survey)) - Persons (%)	
White	10,821 (39%)
African-American	1,799 (6%)
Hispanic-Origin	27,561 (99%)
Asian	102 (0%)
Hawaiian/Pacific Islander	0 (0%)
American Indian	30 (0%)
Other/Multiracial	6,519 (23%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	1,901 (9.41%)
9th through 12th Grade	1,059 (5.24%)
High School Diploma	4,765 (23.59%)
Some College/2-year	3,333 (16.5%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	6,275 (31.07%)

Appendix 6: USFWS "No Effect" Memo and supporting documentations

Date: May 6, 2025

Applicant ID: PR-ESP-00230
Street Address: Urb Miraflores 3-9 Calle 2, Bayamon PR, 00957
Municipality: Bayamon

RE: No Effect Determination for PR-ESP-00230

Executive Summary

Section 7 of the Endangered Species Act (ESA) mandates that federal agencies ensure the actions that they authorize, fund, or carry out shall not jeopardize the continued existence of federally listed plants and animals or result in the adverse modification or destruction of designated critical habitat. Where their actions may affect resources protected by the ESA, agencies must consult with the Fish and Wildlife Service and/or the National Marine Fisheries Service ("FWS" and "NMFS" or "the Services").

This memo serves to document that the proposed project, PR-ESP-00230, located at Urb Miraflores 3-9 Calle 2, Bayamon PR, 00957 (Parcel ID# 084-089-265-09-001) was reviewed in accordance with Section 7 of the Endangered Species Act of 1973 (16 USC 1536) as well as the Fish and Wildlife Coordination Act (47 Stat. 401, as amended; 16 U.S.C. 661 *et seq.*) by a qualified Biologist, resulting in a 'No Effect' determination.

The CDBG-DR Energy Electrical Power Reliability and Resilience (ER2) Program's objective is to enhance electric system reliability, affordability, and resiliency through the development and interconnection of projects that qualify as electric system enhancements or improvements.

Project Description

The subject property is a Commercial Building located in Bayamon, PR. The project scope includes the installation of a photovoltaic (solar) panel system and appurtenant storage system (batteries) on the existing commercial building's roof and will be built at Latitude: 18.376710, Longitude: -66.196617 (see Site Map at Appendix A, Figure 1). All improvements will be limited to the roof, floors, and walls of existing commercial buildings. The Field Observation Form and Environmental Screening Checklist depicting and clarifying the extent and location of project activities are included in Appendix B.

As indicated by the Official Species List obtained from the Information for Planning and Consultation (IPaC) system (Appendix C) and USFWS Critical Habitat data (Appendix A, Figure 2), the proposed project lies within the ranges of the following federally listed species and critical habitats:

Species	Status
Puerto Rican Boa (*Chilabothrus inornatus*)	Endangered

Critical Habitat
None.

Existing Conditions:

The project area where the activities will be taking place consists of approximately 0.06-acres of land located at Urb Miraflores 3-9 Calle 2, Bayamon PR, 00957. According to the U.S. Geological Survey National Land Cover Database (NLCD) (Appendix A, Figure 4) the majority of the project area consists of a high intensity developed land. A structure matching project orientation and footprint is present on 1968 Earth Explorer imagery, and absent from 1962 imagery. The building construction date is circa 1965. A topographic map is included (see Appendix A, Figure 3). The project is located in Zone X on the FEMA Flood map and ABFE map, panel number 72000C0340H dated 4/19/2005 (see Flood Map Appendix A, Figure 5 and ABFE map Appendix A, Figure 6). A Preliminary FIRM has not been developed for this area. There is a mapped NWI riverine, an unnamed creek approximately 1,450 feet to the northwest of the proposed project location. The project activities will not occur within a natural or manmade wetlands and no direct or indirect impacts are anticipated as a result of the project activities (see wetlands map Appendix A, Figure 7).

Effect Determination:

Based on a review of site photos and other information gathered during a site visit on March 14, 2025, none of the species listed above were observed in the vicinity of the proposed project activities and no critical habitat was identified within the proposed project area. Having carefully analyzed the project site and the information available, including the IPaC species list and available Dkey(s), critical habitat data, nature of the project, previous site disturbance, and scope of project activities, the following effect determinations have been made:

Species	Effect Determination	Conservation Measures to be Implemented (if needed)
Puerto Rican Boa (*Chilabothrus inornatus*)	No Effect	None required

SPECIES ANALYSIS

Puerto Rican Boa *(Chilabothrus inornatus)*

Considered to be a habitat generalist, the Puerto Rican Boa tolerates a wide variety terrestrial and arboreal habitat, including rocky areas, haystack hill, trees and branches, rotting stumps, caves, plantations, various types of forested areas such as karst and mangrove forests, forested urban and rural areas, and along streams and road edges. The IPaC Determination Key (Dkey) for the Puerto Rican Boa, dated May 6, 2025, was used to evaluate the potential impacts to federally listed species from this project. Based on the Dkey responses, it was determined that the proposed project will have 'No Effect' on the Puerto Rican Boa (Appendix C).

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 them to relocate the Boa.

Patricia Carmenatty / Senior Biologist

5/6/2025
Date

Appendix A: Figures

BYA BEHAR-YBARRA AND ASSOCIATES LLC
ENGINEERING · ENVIRONMENTAL · ARCHITECTURE · PLANNING
554 Calle Perseo, Suite J-3, San Juan, P.R. 00920 Tel.(787)783-0290

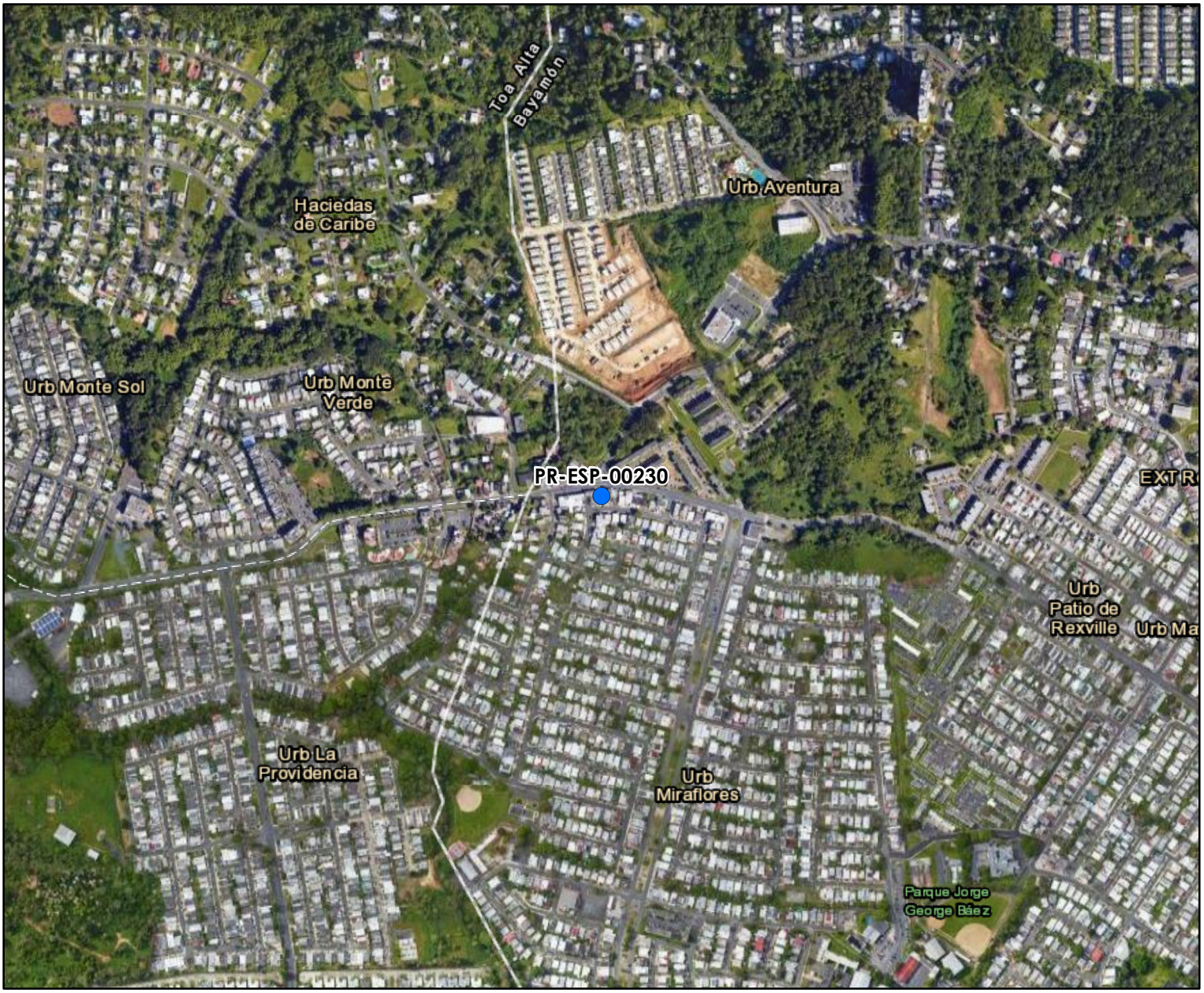
Application ID: PR-ESP-00230

Figure 1

Location: Aerial Map

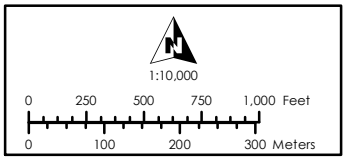
Electrical Power Reliability and Resilience Program (ER2)

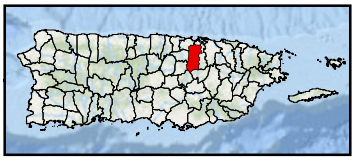
Advanced Medical Equipment & Services Inc.
Urb. Miraflores 3-9 Calle 2,
Bayamón PR 00657
Catastro: 084-089-265-09-001
Lat: 18.376710, Lon: -66.196617



Legend:

- PR-ESP-00230





Service Layer Credits:
Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community
Esri, Garmin, GEBCO, NOAA NGDC, and other contributors

Source:
Centro de Recaudación de Ingresos Municipales (CRIM)
https://catastro.crimpr.net/cdprpc/

BYA BEHAR-YBARRA AND ASSOCIATES LLC
ENGINEERING · ENVIRONMENTAL · ARCHITECTURE · PLANNING
554 Calle Perseo, Suite J-3, San Juan, P.R. 00920 Tel.(787)783-0290

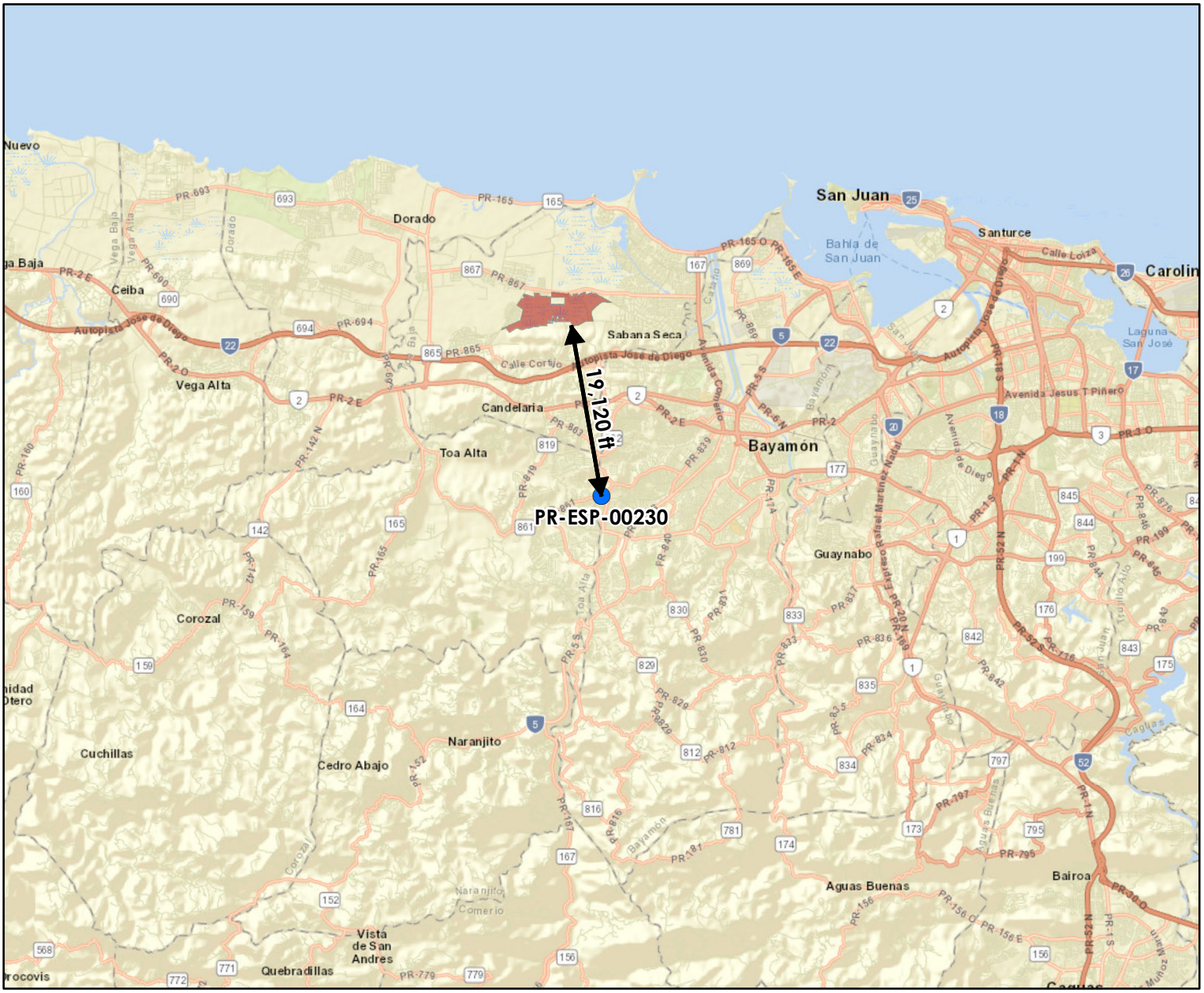
Application ID: PR-ESP-00230

Figure 2

Threatened and Endangered Species Map

Electrical Power Reliability and Resilience Program (ER2)

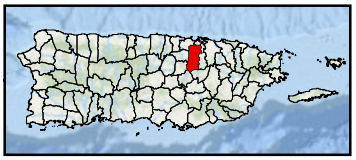
Advanced Medical Equipment & Services Inc.
Urb. Miraflores 3-9 Calle 2,
Bayamón PR 00657
Catastro: 084-089-265-09-001
Lat: 18.376710, Lon: -66.196617



Legend:

- PR-ESP-00230
- Critical Habitat

1:200,000
0 10,000 20,000 Feet
0 2,000 4,000 6,000 Meters



Service Layer Credits:
Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community
Esri, Garmin, GEBCO, NOAA NGDC, and other contributors

Source:
NOAA Office of Response and Restoration
https://response.restoration.noaa.gov/

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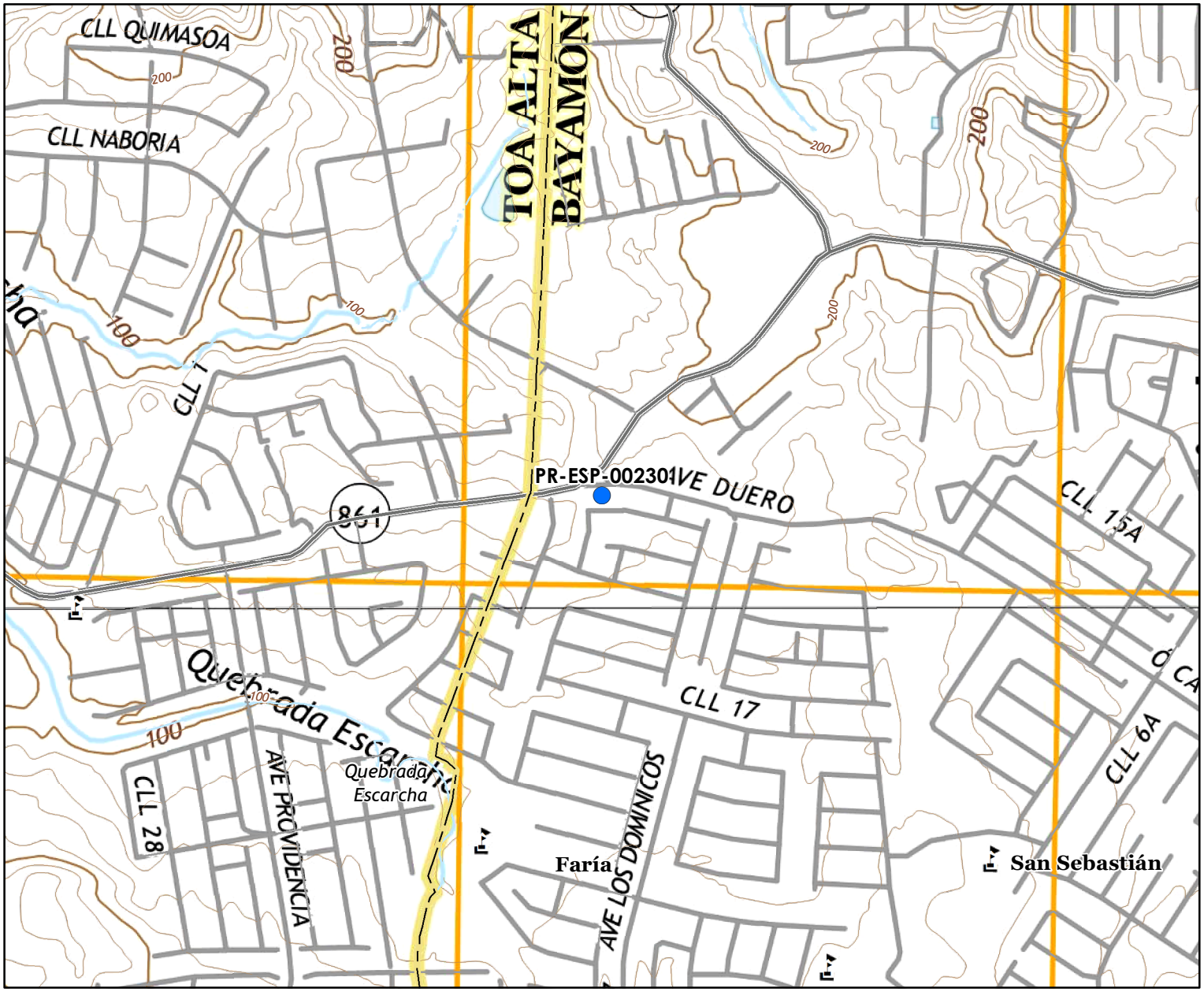
Application ID: PR-ESP-00230

Figure 3

Location: Topographic Map

Electrical Power Reliability and Resilience Program (ER2)

Advanced Medical Equipment & Services Inc.
Urb. Miraflores 3-9 Calle 2,
Bayamón PR 00657
Catastro: 084-089-265-09-001
Lat: 18.376710, Lon: -66.196617



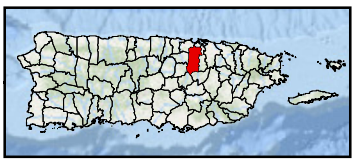
Legend:

- PR-ESP-00230
- Elev_Contour

1:10,000

0 250 500 750 1,000 Feet

0 100 200 300 Meters



Service Layer Credits:
Esri, Garmin, GEBCO, NOAA NGDC, and other contributors

Source:
Centro de Recaudación de Ingresos Municipales (CRIM)
https://catastro.crimpr.net/cdprpc/

Quadrangle: Bayamón and Naranjito

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Application ID: PR-ESP-00230

Figure 4

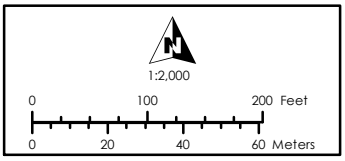
Land Cover Map

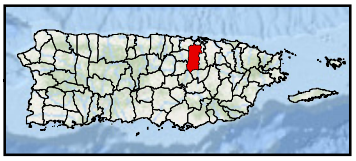
Electrical Power Reliability and Resilience Program (ER2)

Advanced Medical Equipment & Services Inc.
Urb. Miraflores 3-9 Calle 2,
Bayamón PR 00657
Catastro: 084-089-265-09-001
Lat: 18.376710, Lon: -66.196617

Legend:

- PR-ESP-00230
- Developed Open Space
- Grassland
- High Intensity Developed
- Low Intensity Developed
- Medium Intensity Developed
- Mixed Forest
- Scrub/Shrub





Service Layer Credits:
Esri, Garmin, GEBCO, NOAA NGDC, and other contributors

Source:
Multi-Resolution Land Characteristics (MRLC) Consortium
https://www.mrlc.gov/viewer/

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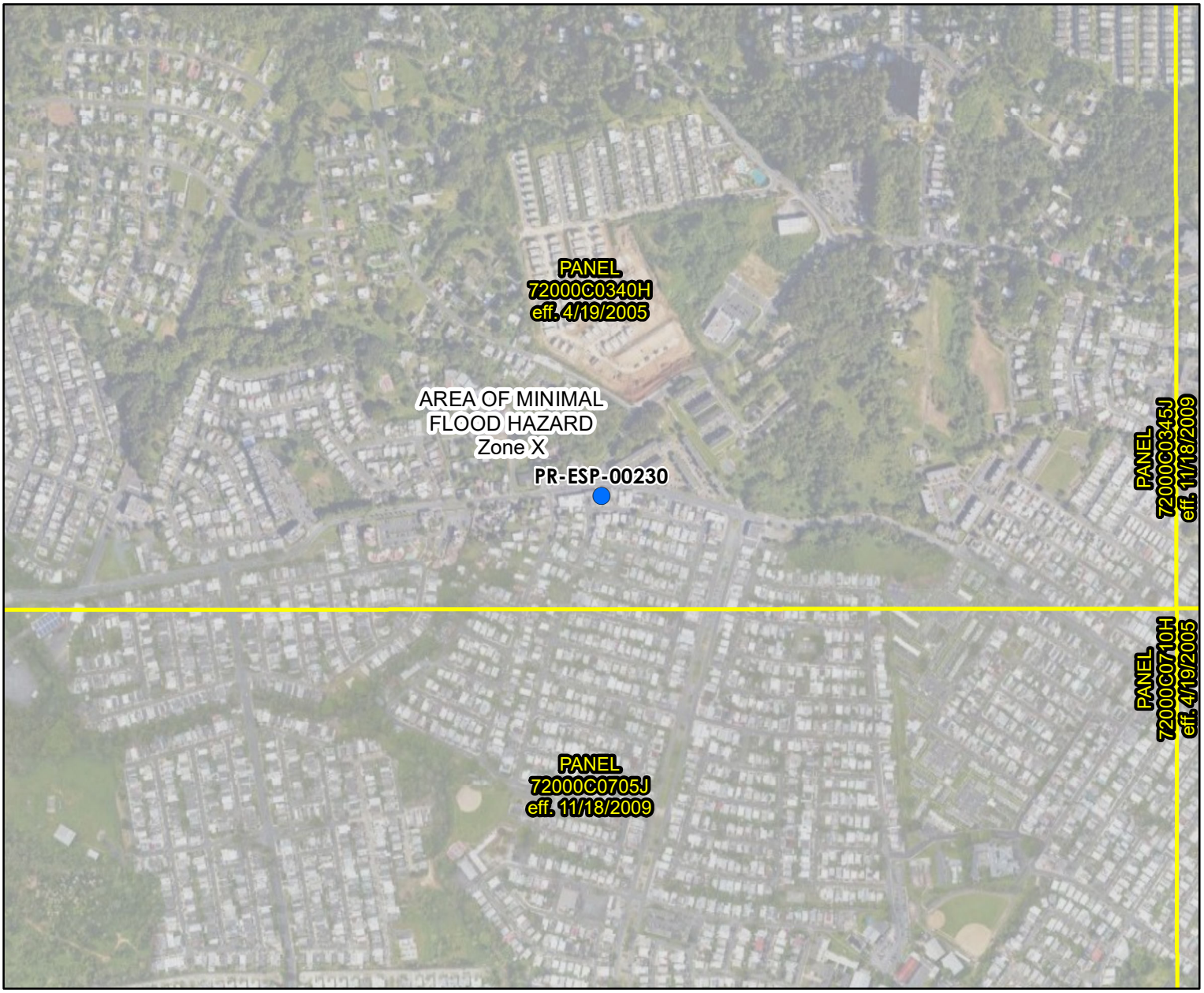
Application ID: PR-ESP-00230

Figure 5

Flood Insurance Rate Map

Electrical Power Reliability and Resilience Program (ER2)

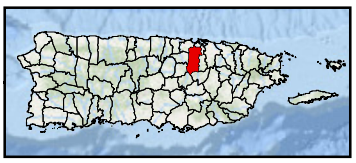
Advanced Medical Equipment & Services Inc.
Urb. Miraflores 3-9 Calle 2,
Bayamón PR 00657
Catastro: 084-089-265-09-001
Lat: 18.376710, Lon: -66.196617



Legend:

- PR-ESP-00230
- FIRM Panel
- Floodway
- 0.2% Annual Chance Flood Hazard
- Zone D Area of Undetermined Flood Hazard
- Zone A
- Zone AE
- Zone AH
- Zone AO
- Zone VE
- Zone X

1:10,000
0 250 500 750 1,000 Feet
0 100 200 300 Meters



Service Layer Credits:
Esri, Garmin, GEBCO, NOAA NGDC, and other contributors

Source:
Federal Emergency Management Agency (FEMA)
https://msc.fema.gov/portal/home

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554 Calle Perseo, Suite J-3, San Juan, P.R. 00920 Tel.(787)783-0290

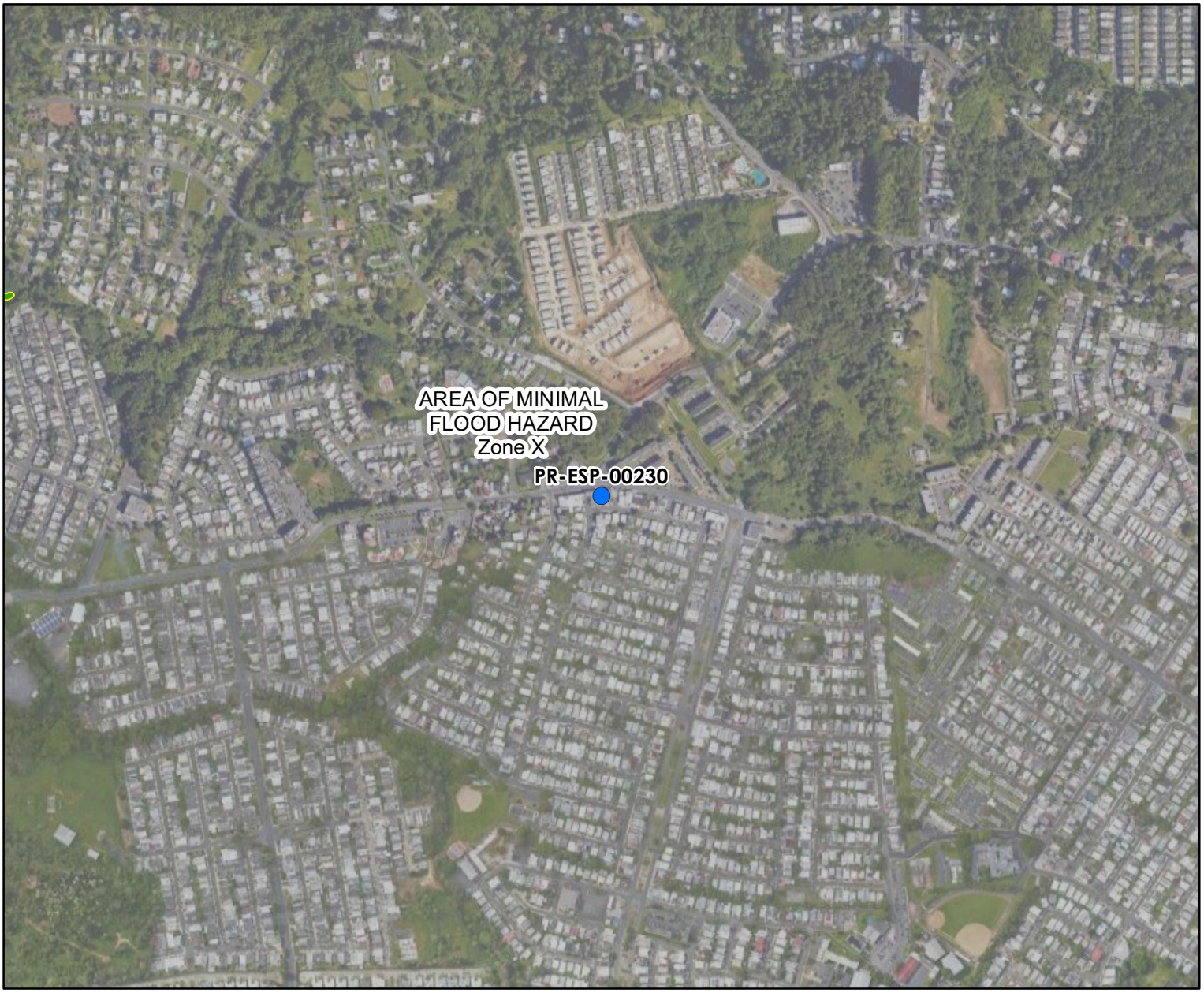
Application ID: PR-ESP-00230

Figure 6

Advisory Base Flood Elevation Map

Electrical Power Reliability and Resilience Program (ER2)

Advanced Medical Equipment & Services Inc.
Urb. Miraflores 3-9 Calle 2,
Bayamón PR 00657
Catastro: 084-089-265-09-001
Lat: 18.376710, Lon: -66.196617



Legend:

- PR-ESP-00230
- Area Potential Effect (Building Footprint)
- CRIM-Parcel
- Advisory Base Flood Elevations (ABFE)
- 0.2 % Annual Chance Flood
- 1 % Annual Chance Flood

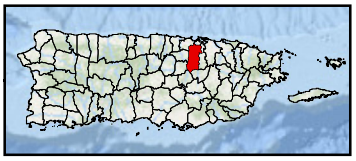
Flood Zone

- Zone A
- Zone AE
- Zone AO
- Zone VE
- Zone X - Area of Minimal Flood Hazard
- 0.2 % Annual Chance Flood
- Floodway

1:10,000

0 250 500 750 1,000 Feet

0 100 200 300 Meters



Service Layer Credits:
Esri, Garmin, GEBCO, NOAA NGDC, and other contributors

Source:
Federal Emergency Management Agency (FEMA),
https://gis-r2-fema.hub.arcgis.com/
Junta de Planificacion de Puerto Rico (JP), https://maps.jp.pr.gov/
Mapas de Niveles de Inundacion Base Recomendados

BYA BEHAR-YBARRA AND ASSOCIATES LLC
ENGINEERING · ENVIRONMENTAL · ARCHITECTURE · PLANNING
554 Calle Perseo, Suite J-3, San Juan, P.R. 00920 Tel.(787)783-0290

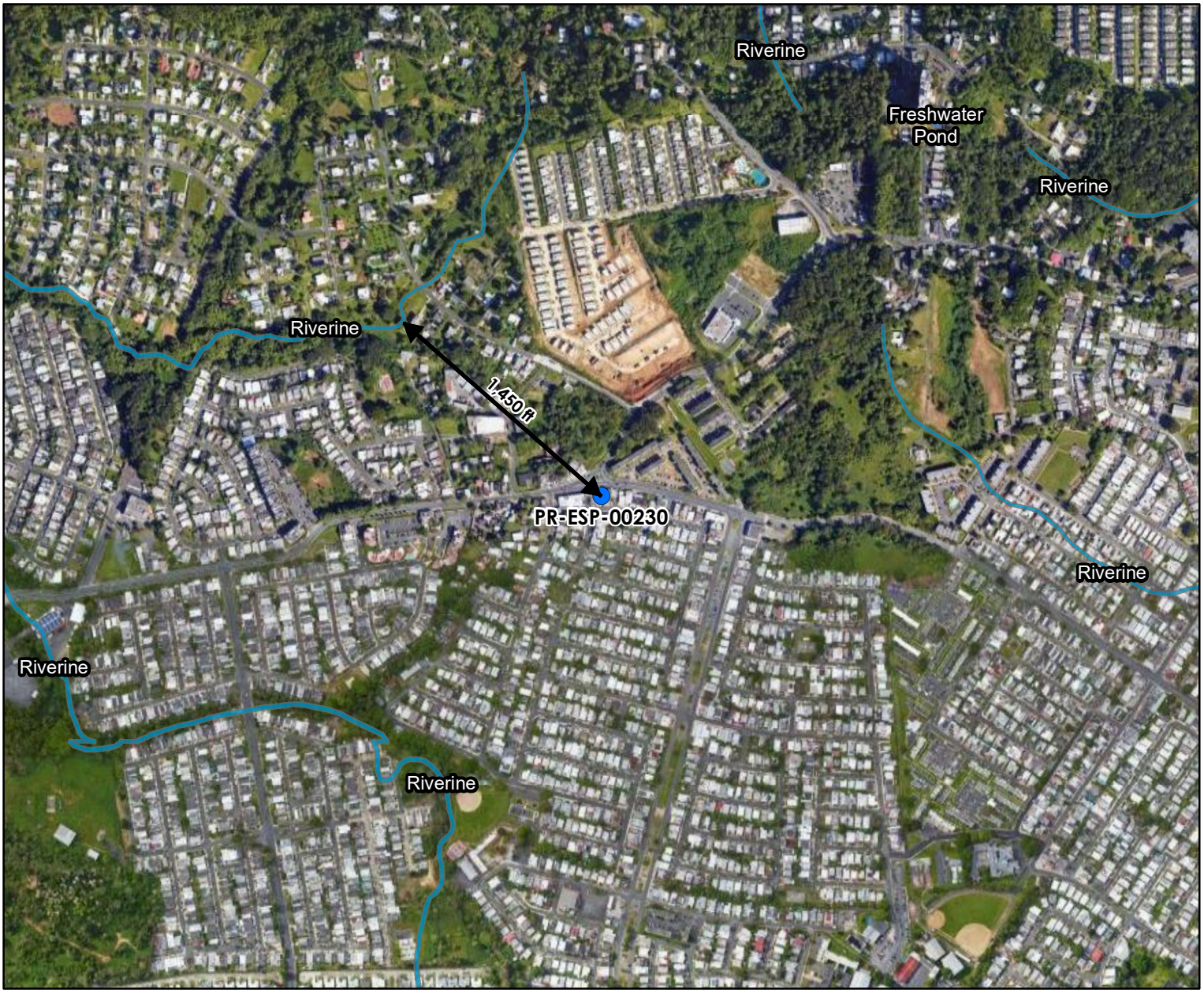
Application ID: PR-ESP-00230

Figure 7

Wetlands Map

Electrical Power Reliability and Resilience Program (ER2)

Advanced Medical Equipment & Services Inc.
Urb. Miraflores 3-9 Calle 2,
Bayamón PR 00657
Catastro: 084-089-265-09-001
Lat: 18.376710, Lon: -66.196617



Legend:

PR-ESP-00230

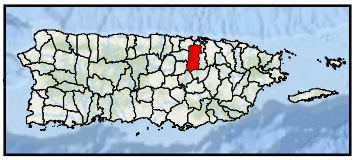
National Wetlands Inventory

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Riverine

1:10,000

0 250 500 750 1,000 Feet

0 100 200 300 Meters



Service Layer Credits:
Esri, Garmin, GEBCO, NOAA NGDC, and other contributors

Source:
U.S. Fish and Wildlife Service - National Weatlands Inventory
https://www.fws.gov/program/national-wetlands-inventory

Appendix B: Field Observation Form and Environmental Screening Checklist

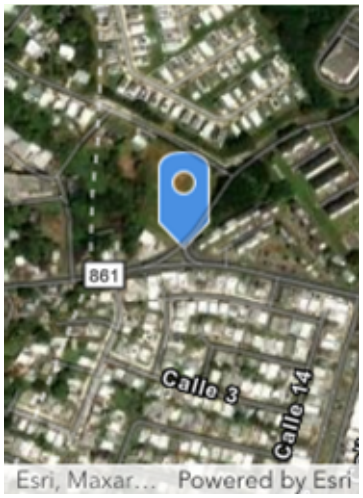
BYA BEHAR-YBARRA & ASSOCIATES LLC
CONSULTING ENGINEERS, ARCHITECTS AND PLANNERS

DEPARTMENT OF HOUSING

Environmental Field Assessment Form - PR-ESP-00230

APPLICANT/LOCATION INFORMATION

Applicant ID:	PR-ESP-00230
Applicant Name:	Advanced Medical Equipment & Services Inc
Parcel ID:	084-089-265-09-001
Coordinates:	18.376710, -66.196617
Street Address:	URB MIRAFLORES 3-9 CALLE 2
Municipio:	Bayamon
Zip Code:	00957
Site Inspector:	Egon Gonzalez
Date of Visit:	March 14, 2025
Time of Visit:	15:55
Year Built:	Circa 1962



Building Information

Question	Answer	Notes
1. Location verified:	Yes	18.376710, -66.196617
2. Is the building correct on GIS?	Yes	Building is correct on GIS
3. Building Type:	1	
4. # of Stories:	2	
5. Building Foundation:	Concrete Slab	
6. Is the building in use?	Yes	Building is in use
7. Does the building have a detached garage / carport present?	No	
8. Is the electricity connected?	Yes	Electricity is connected
9. Is the water connected?	Yes	Water is connected
10. 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, electrical equipment etc.)	No	
11. Is a septic system present? If Yes report apparent condition.	No	
12. Are there any obvious signs of animals, birds nesting or burrows near the site?	No	

Parcel Conditions		
Question	**Answer**	**Notes**
1) Are there any 55-gallon drums visible on site? If yes, are they leaking?	No	
2) Are there any (or signs of any) underground storage tanks on the property?	No	
3) Are there signs of AST on the parcel or adjacent parcel? If yes, list approximate size and contents, if known.	Yes	Medical oxygen tanks, 300lbs Propane tank located at back of structure and 200gal water cistern located on roof of structure
4) Is there any stained soil or pavement on the parcel?		
5) Are there any potentially hazardous trees that could fall?		
6) Are there any groundwater monitoring wells on the site or adjacent parcel?	No	
7) Is there distressed vegetation on the parcel?		
8) Are any additional environmental or non-environmental site hazards observed?		
9) 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)?	No	
10) Does the subject property have water frontage?	No	
11) 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?	No	
12) Is a historic marker present?	No	
13) Based on the above finding, does additional information need to be obtained from the applicant to determine whether an environmental hazard is present?	No	

Building Environmental Conditions		
Question	**Answer**	**Notes**
1. Is there any visible evidence of asbestos, chipping, and flaking or peeling paint, or hazardous materials present in or on the structure?	No	
2. Is there any visible indication of mold?	No	
3. Are there any pungent, foul or noxious odors?	No	

Additional Needs Analysis		
Question	**Answer**	**Notes**
Based on the above findings, does additional information need to be obtained from the applicant to determine whether an environmental hazard is present?	No	

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

Inspector Signature

Egon Gonzalez

March 14, 2025

Front of Structure	
Photo Direction: South Comments:	

Facing Away from Front	
Photo Direction: North Comments:	

Side #1 of Structure	
Photo Direction: South Comments:	

Facing Away From Side #1	
Photo Direction: Southeast Comments:	

Back of Structure	
Photo Direction: North Comments:	

Facing Away from Back	
Photo Direction: South Comments:	

Side #2 of Structure	
Photo Direction: South Comments:	

Facing Away from Side #2	
Photo Direction: Southwest Comments:	

Streetscape #1	
Photo Direction: East Comments:	

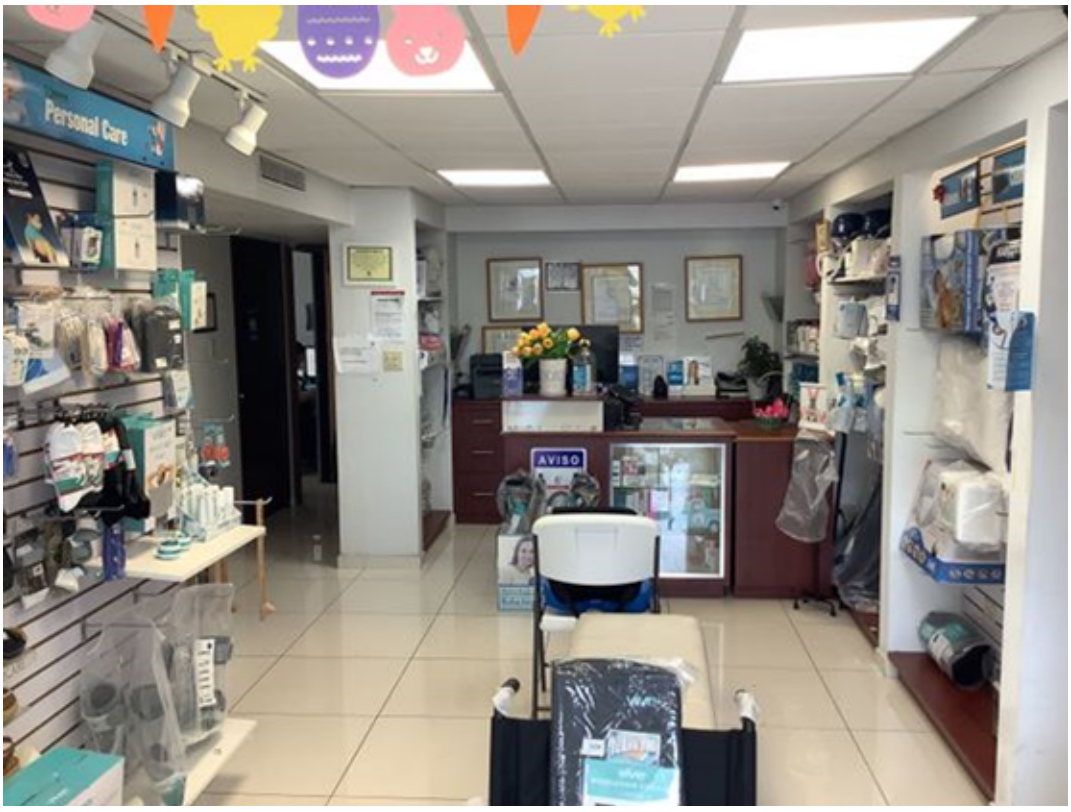
Streetscape #2	
Photo Direction: West Comments:	

Address	
Photo Direction: North Comments:	

Architectural Details 1	
Photo Direction: Photo Description: Electricity is connected	

Architectural Details 2	
Photo Direction: Photo Description: Water is connected	

Architectural Details 3	
Photo Direction: Photo Description: Medical oxygen cylinders	

Architectural Details 4	
Photo Direction: Photo Description: General interior view	

Architectural Details 5	
Photo Direction: Photo Description: General interior view	

Architectural Details 6	
Photo Direction: Photo Description: 200gal Water cistern located at roof of structure	

Architectural Details 7	
Photo Direction: Photo Description: Additional roof of structure view	

Architectural Details 8	
Photo Direction: Photo Description: Proposed location for battery storage	

Architectural Details 9	
Photo Direction: Photo Description: Proposed location for battery storage system	

Architectural Details 10	
Photo Direction: Photo Description: 300lbs Propane tank located at back of structure	

Appendix C: Information for Planning and Consultation (IPaC) system

United States Department of the Interior

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

In Reply Refer To: 05/06/2025 17:04:50 UTC
Project Code: 2025-0092508
Project Name: PR-ESP-00230

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

To Whom It May Concern:

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

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

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

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

to caribbean_es@fws.gov. To obtain guidance for completing this process and the minimum requirements for project packages, please visit:

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

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

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

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

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

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

This species list is provided by:

Caribbean Ecological Services Field Office
caribbean_es@fws.gov
Post Office Box 491
Boqueron, PR 00622-0491
(786) 244-0081

Attachment(s):

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

OFFICIAL SPECIES LIST

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

This species list is provided by:

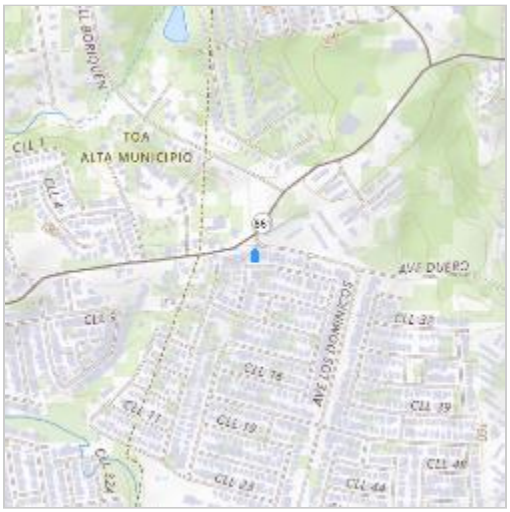
Caribbean Ecological Services Field Office
Post Office Box 491
Boqueron, PR 00622-0491
(939) 320-3135

PROJECT SUMMARY

Project Code: 2025-0092508
Project Name: PR-ESP-00230
Project Type: Power Gen - Solar
Project Description: Commercial name: Advanced Medical Equipment & Services Inc. The subject property is a Commercial Building located in Bayamon, PR. The project scope includes the installation of a photovoltaic (solar) panel system and appurtenant storage system, BSS, on the existing commercial building's roof and will be built at Latitude: 18.376710, Longitude: -66.196617.

Project Location:

The approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@18.376700200000002,-66.1966188428527,14z



Counties: Bayamón County, Puerto Rico

ENDANGERED SPECIES ACT SPECIES

There is a total of 1 threatened, endangered, or candidate species on this species list.

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

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

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

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

REPTILES

NAME	STATUS
Puerto Rican Boa *Chilabothrus inornatus*	Endangered

No critical habitat has been designated for this species.
Species profile: https://ecos.fws.gov/ecp/species/6628
General project design guidelines:
https://ipac.ecosphere.fws.gov/project/EJHSRA6FS5H2JC2XESZ7J5XID4/documents/generated/7159.pdf

CRITICAL HABITATS

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

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

USFWS NATIONAL WILDLIFE REFUGE LANDS AND FISH HATCHERIES

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

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

BALD & GOLDEN EAGLES

Bald and Golden Eagles are protected under the Bald and Golden Eagle Protection Act [2] and the Migratory Bird Treaty Act (MBTA) [1]. Any person or organization who plans or conducts activities that may result in impacts to Bald or Golden Eagles, or their habitats, should follow appropriate regulations and consider implementing appropriate avoidance and minimization measures, as described in the various links on this page.

---

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

BALD & GOLDEN EAGLES INFORMATION WAS NOT AVAILABLE WHEN THIS SPECIES LIST WAS GENERATED. PLEASE CONTACT THE FIELD OFFICE FOR FURTHER INFORMATION.

MIGRATORY BIRDS

The Migratory Bird Treaty Act (MBTA) [1] prohibits the take (including killing, capturing, selling, trading, and transport) of protected migratory bird species without prior authorization by the Department of Interior U.S. Fish and Wildlife Service (Service). The incidental take of migratory birds is the injury or death of birds that results from, but is not the purpose, of an activity. The Service interprets the MBTA to prohibit incidental take.

---

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

MIGRATORY BIRD INFORMATION WAS NOT AVAILABLE WHEN THIS SPECIES LIST WAS GENERATED. PLEASE CONTACT THE FIELD OFFICE FOR FURTHER INFORMATION.

WETLANDS

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

For more information please contact the Regulatory Program of the local U.S. Army Corps of Engineers District.

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

THERE ARE NO WETLANDS WITHIN YOUR PROJECT AREA.

IPAC USER CONTACT INFORMATION

Agency: Private Entity
Name: Patricia Carmenatty
Address: Perseo St. 554 Cond. Iberia Suite J-3
City: San Juan
State: PR
Zip: 00920
Email patricia.carmenatty@byaea.com
Phone: 7877830290

United States Department of the Interior

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

In Reply Refer To: 05/06/2025 17:11:33 UTC
Project code: 2025-0092508
Project Name: PR-ESP-00230

Subject: Technical Assistance letter for the project named 'PR-ESP-00230' for specified threatened and endangered species, that may occur in your proposed project location, pursuant to the IPaC determination key titled Caribbean Determination Key (DKey).

Dear Applicant:

Thank you for using the assisted evaluation keys in IPaC. This letter is provided pursuant to the Service's authority under the Endangered Species Act of 1973, as amended (ESA) (87 Stat. 884; 16 U.S.C. 1531et seq.). On May 06, 2025, Patricia Carmenatty used the Caribbean DKey; dated January 03, 2025, in the U.S. Fish and Wildlife Service's online IPaC application to evaluate potential impacts to federally listed species, from a project named 'PR-ESP-00230'. The project is located in Bayamón County, Puerto Rico (shown below).

The approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@18.376700200000002,-66.1966188428527,14z

The following description was provided for the project 'PR-ESP-00230':

Commercial name: Advanced Medical Equipment & Services Inc. The subject property is a Commercial Building located in Bayamon, PR. The project scope includes the installation of a photovoltaic (solar) panel system and appurtenant storage system, BSS, on the existing commercial building's roof and will be built at Latitude: 18.376710, Longitude: -66.196617.

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

Species	Listing Status	Determination
Puerto Rican Boa (*Chilabothrus inornatus*)	Endangered	No effect

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

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

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

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

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

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

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

1. Name

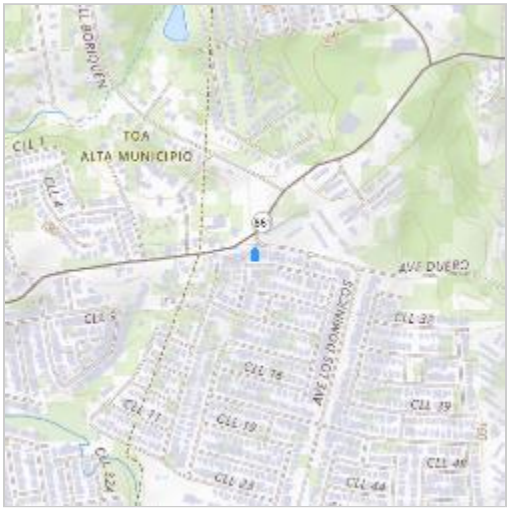
PR-ESP-00230

2. Description

The following description was provided for the project 'PR-ESP-00230':

> Commercial name: Advanced Medical Equipment & Services Inc. The subject property is a Commercial Building located in Bayamon, PR. The project scope includes the installation of a photovoltaic (solar) panel system and appurtenant storage system, BSS, on the existing commercial building’s roof and will be built at Latitude: 18.376710, Longitude: -66.196617.

The approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@18.376700200000002,-66.1966188428527,14z



QUALIFICATION INTERVIEW

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

   No

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

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

   Yes

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

   Automatically answered
   Yes

IPAC USER CONTACT INFORMATION

Agency: Private Entity
Name: Patricia Carmenatty
Address: Perseo St. 554 Cond. Iberia Suite J-3
City: San Juan
State: PR
Zip: 00920
Email patricia.carmenatty@byaea.com
Phone: 7877830290

Appendix D: USFWS Species Analysis

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

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

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

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

Adult PR boa – *Chilabothrus inornatus*
Photo: Puerto Rico by JP Zegarra

Last Revised: January 2024

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

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

Conservation Measures:

1. Inform all project personnel about the potential presence of the PR boa in areas where the proposed work will be conducted. A pre-construction meeting should be conducted to inform all project personnel about the need to avoid harming the species as well as penalties for harassing or harming PR boas. An educational poster or sign with photo or illustration of the species should be displayed at the project site.

2. Prior to any construction activity, including removal of vegetation and earth movements, the boundaries of the project and areas to be excluded and protected should be clearly marked in the project plan and in the field in order to avoid further habitat degradation into forested and conservation areas.

3. Once areas are clearly marked, and prior to the use of heavy machinery and any construction activity (including removal of vegetation and earth movement), a biologist or project personnel with experience on this species should survey the areas to be cleared to verify the presence of any PR boa within the work area.

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

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

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

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

8. PR boas may seek shelter in debris piles. Measures should be taken to avoid and minimize boa casualties associated with sheltering in debris piles as a result of project activities. Debris piles should be placed far away from forested areas. Prior to moving, disposing or shredding, debris piles should be carefully inspected for the presence of boas. If debris piles will be left on site, we recommend they be placed in areas that will not be disturbed in the future.

9. If a dead PR boa is found, immediately cease all work in that area and record the information accordingly (see #5). If the PR boa was accidentally killed as part of the project actions, please include information on what conservation measures had been implemented and what actions will be taken to avoid further killings. A dead boa report should be sent by email (see contacts below) to the Service within 48 hours of the event.

10. Projects must comply with all state laws and regulations. Please contact the PRDNER for further guidance.

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

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

Appendix 7: SECTION 106 CONSULTATION PACKAGE

OFICINA ESTATAL DE
CONSERVACIÓN HISTÓRICA
GOBIERNO DE PUERTO RICO
Executive Director | Carlos A. Rubio Cancela | carubio@prshpo.pr.gov

Tuesday, June 17, 2025

Kristin Sanders
Historic Preservation Manager
269 Avenida Ponce de León, San Juan, PR, 00917

SHPO-CF-06-04-25-01 PRDOH CDBG-DR_ESP Program_20250604_17 Improvements_NHPA

Dear Ms. Sanders,
Our Office has received and reviewed the above referenced project in accordance with 54 U.S.C. 306108 (commonly known as Section 106 of the National Historic Preservation Act) and 36 CFR Part 800: Protection of Historic Properties.
Our records support your finding of "no historic properties affected" within the following properties' Area of Potential Effects (APE):
Aguadilla PR-ESP-00208 Bo. Caimital Abajo Carr 2 Km 121.6
Aibonito PR-ESP-00132 Carretera 14 Km 46.7 Bo. Asomante
Bayamón PR-ESP-00154 Ave. Santa Juanita AK6 Urb. Santa Juanita
Bayamón PR-ESP-00217 MARGINAL A-3 URB FOREST HILLS BAY
Bayamón PR-ESP-00230 URB MIRAFLORES 3-9 CALLE 2
Bayamón PR-ESP-00362 REPARTO TERESITA AL-2 CALLE 23
Caguas PR-ESP-00128 Ave Gautier Benitez B-13 Urb Villa Carmen
Lajas PR-ESP-00119 Carr 303 Km 3.2 Bo. Olivares
Lajas PR-ESP-00212 CARR 102 KM 17.2 INT SECTOR PALMER #8
Manatí PR-ESP-00139 1 D2 Villa Maria
Moca PR-ESP-00229 CARR 125 KM 3.5
San Juan PR-ESP-00125 V3-22 AVE SAN ALFONSO
San Juan PR-ESP-00200 Urb Monte Carlos 1265 Ave Monte Carlos
San Juan PR-ESP-00257 773 AVE SAN PATRICIO
San Juan PR-ESP-00264 CALLE 15 1265 EXT SAN AGUSTIN
San Juan PR-ESP-00356 1727 Avenida Jesus T. Pinero
Villalba PR-ESP-00149 CARR. 149 ESQUINA BORINQUEN #44
If you have any questions regarding our comments, please do not hesitate to contact our Office.

Sincerely,

Carlos A. Rubio Cancela

State Historic Preservation Officer
CARC/GMO/ SG

SHPO
OECH
OFICINA ESTATAL DE CONSERVACIÓN HISTÓRICA
OFICINA DEL GOBERNADOR
STATE HISTORIC PRESERVATION OFFICE
OFFICE OF THE GOVERNOR

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

787.721.3737

oech.pr.gov

June 4, 2025

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

Puerto Rico Disaster Recovery, CDBG-DR Program: ENERGY POWER RELIABILITY AND RESILIENCE/DDEC ENERGY SUPPORT PROGRAM (ESP)

Section 106 NHPA Effect Determination Submittal – Seventeen (17) Non-Historic Case(s) – *No Historic Properties Affected*

Dear Architect Rubio Cancela,

In accordance with Section 106 of the National Historic Preservation Act and its implementing regulations, 36 CFR Part 800, HORNE is providing information for your review and requesting your concurrence regarding the above-referenced projects on behalf of the Puerto Rico Department of Housing (PRDOH) and the Energy Power Reliability and Resilience/DDEC Energy Support Program (ESP). 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.

The purpose of the ESP is to benefit Puerto Rican communities by funding projects that enhance electric system reliability, affordability, and resiliency. The Program's design will be carried out through the development and interconnection of microgrids and distributed energy resources, including renewable energy generation, combined heat and power (CHP) systems, phototovoltaic systems (PVS), and battery storage systems (BSS), among other eligible project types.

On behalf of PRDOH, we are submitting the following seventeen (17) cases for Section 106 consultation as it cannot be cleared with Programmatic Agreement allowances. These cases consist of the installation of PV systems with battery backup systems. The prepared excel file presents all information for these properties for your review including the ESP Case ID, locational data, photographs, a link to the google map, key dates and supporting imagery, and the PRDOH Eligibility and Effect Determinations.

MUNICIPALITY	CASE ID	ADDRESS
Aguadilla	PR-ESP-00208	Bo. Caimital Abajo Carr 2 Km 121.6
Aibonito	PR-ESP-00132	Carretera 14 Km 46.7 Bo. Asomante
Bayamón	PR-ESP-00154	Ave. Santa Juanita AK6 Urb. Santa Juanita
Bayamón	PR-ESP-00217	MARGINAL A-3 URB FOREST HILLS BAY
Bayamón	PR-ESP-00230	URB MIRAFLORES 3-9 CALLE 2
Bayamón	PR-ESP-00362	REPARTO TERESITA AL-2 CALLE 23
Caguas	PR-ESP-00128	Ave Gautier Benitez B-13 Urb Villa Carmen
Lajas	PR-ESP-00119	Carr 303 Km 3.2 Bo. Olivares
Lajas	PR-ESP-00212	CARR 102 KM 17.2 INT SECTOR PALMER #8
Manatí	PR-ESP-00139	1 D2 Villa Maria
Moca	PR-ESP-00229	CARR 125 KM 3.5
San Juan	PR-ESP-00125	V3-22 AVE SAN ALFONSO
San Juan	PR-ESP-00200	Urb Monte Carlos 1265 Ave Monte Carlos
San Juan	PR-ESP-00257	773 AVE SAN PATRICIO
San Juan	PR-ESP-00264	CALLE 15 1265 EXT SAN AGUSTIN
San Juan	PR-ESP-00356	1727 Avenida Jesus T. Pinero
Villalba	PR-ESP-00149	CARR. 149 ESQUINA BORINQUEN #44

The properties are not individually eligible, listed in the National Register of Historic Places (NRHP) or located within or adjacent to an eligible or listed Historic District. A recommendation of "No Historic Properties Affected", pursuant to 36 CFR 800.4(d)(1), has been made for these proposed projects.

We look forward to your review and concurrence. Please contact me with any questions or concerns by email at kristin.sanders@horne.com or phone at 225-276-2109.

Kindest regards,

Kristin P. Sanders

Kristin P. Sanders

Historic Preservation Manager

Enclosures

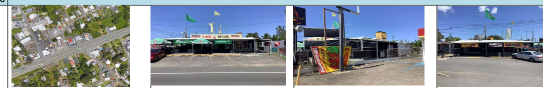
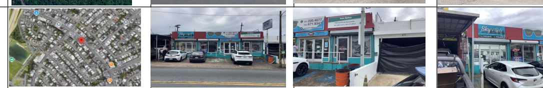
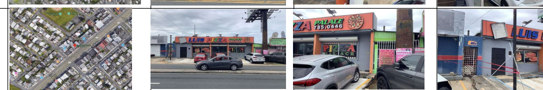
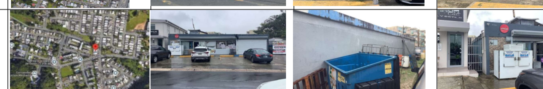
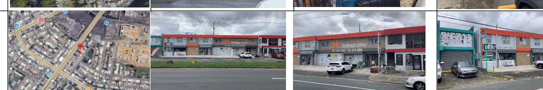
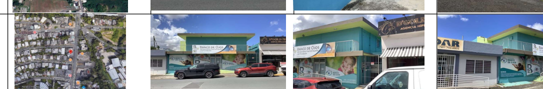
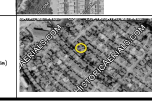
Puerto Rico Department of Housing

CDBG-DR ENERGY POWER RELIABILITY AND RESILIENCE/DDEC ENERGY SUPPORT PROGRAM (ESP)

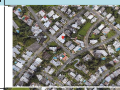
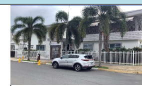
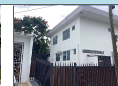
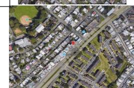
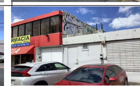
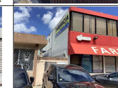
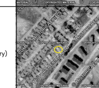
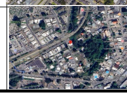
Improvements to Non-Historic Properties: Properties 45 Years or Greater, Not Individually Eligible or Listed in the National Register of Historic Places (NRHP), and Neither Adjacent to Nor Located Within an Eligible or Listed NRHP Historic District

Proposed Undertakings Consist of the Installation of Photovoltaic Systems (PVS) and a Battery Storage Systems (BSS) on the Roof of the Subject Building

SUBMISSION DATE: June 4, 2025 - 17 Cases

PROPERTY INFORMATION													NATIONAL REGISTER ELIGIBILITY		DETERMINATION OF EFFECT			
CASE ID	STREET ADDRESS	MUNICPALITY	PARCEL ID	LATITUDE	LONGITUDE	ACREAGE	ESTIMATED FUNDING	PHOTO (Current Aerial imagery and up to 3 photos: front, right, left)	LINK TO GOOGLE MAP	KEY DATES VERIFIED BY GOOGLE EARTH PRO, AERIAL PHOTO AND USGS MAPS			PRDOH ELIGIBILITY DETERMINATION	SHPO CONCURRENCE (SHPO USE ONLY)	PRDOH EFFECT DETERMINATION	SHPO CONCURRENCE (SHPO USE ONLY)	PREPARER AND DATE / APPROVER AND DATE	SHPO COMMENTS
PR-ESP-00208	Bo. Caimital Abajo Carr 2 Km 121.6	Aguadilla	024-062-002-09-901	18.4463	-67.11348	0.23	$50,000		https://maps.app.goo.gl/EXBTtgq7LbIFUlo46	Circa 1970	Structure is present in 1975 aerial imagery but a different structure is present on 1958 imagery.		Ineligible	Select Eligibilty	No Historic Properties Affected	Select Effect	Prepared by Jorge L Lizardi Pollock, PhD on 5/1/2025 and approved by Elizabeth Atkins, M.A./Lauren Poche, M.A. on 5/16/2025.	
PR-ESP-00132	Carretera 14 Km 46.7 Bo. Asomante	Aibonito	297-075-178-01-001	18.129686	-66.285385	0.3	$50,000		https://maps.app.goo.gl/VD7uPbVgAwK7V6P88	Circa 1962	Structure is present in 1968 aerial imagery but absent on 1958 aerial imagery.		Ineligible	Select Eligibilty	No Historic Properties Affected	Select Effect	Prepared by Jorge L Lizardi Pollock, PhD on 5/1/2025 and approved by Elizabeth Atkins, M.A./Lauren Poche, M.A. on 5/19/2025.	
PR-ESP-00154	Ave. Santa Juanita AK6 Urb. Santa Juanita	Bayamón	113-014-522-06-001	18.367247	-66.163003	0.09	$19,534		https://maps.app.goo.gl/64ZDunSkzxZ44Zzt6	Circa 1962	Structure is present in 1962 aerial imagery. (Earliest available)		Ineligible	Select Eligibilty	No Historic Properties Affected	Select Effect	Prepared by Jorge L Lizardi Pollock, PhD on 5/1/2025 and approved by Elizabeth Atkins, M.A./Lauren Poche, M.A. on 5/19/2025.	
PR-ESP-00217	MARGINAL A-3 URB FOREST HILLS BAY	Bayamón	085-054-239-25-000	18.385542	-66.165115	0.2	$48,287		https://maps.app.goo.gl/u7wK56QMaSykY3NB9	Circa 1955	Structure is present in 1962 aerial imagery but absent from 1930 municipality imagery.		Ineligible	Select Eligibilty	No Historic Properties Affected	Select Effect	Prepared by Jorge L Lizardi Pollock, PhD on 5/1/2025 and approved by Elizabeth Atkins, M.A./Lauren Poche, M.A. on 5/16/2025.	
PR-ESP-00230	URB MIRAFLORES 3-9 CALLE 2	Bayamón	084-089-265-09-001	18.37671	-66.196617	0.06	$25,883		https://maps.app.goo.gl/QuSi7hu86SWEWciB7	Circa 1965	Structure is present in 1967 aerial imagery but absent from 1962 aerial imagery.		Ineligible	Select Eligibilty	No Historic Properties Affected	Select Effect	Prepared by Jorge L Lizardi Pollock, PhD on 5/1/2025 and approved by Elizabeth Atkins, M.A./Lauren Poche, M.A. on 5/16/2025.	
PR-ESP-00362	REPARTO TERESITA AL-2 CALLE 23	Bayamón	061-061-201-04-001	18.414818	-66.183469	0.21	$50,000		https://maps.app.goo.gl/dxE4i6g4Xu7UzuQb7	Circa 1972	Structure is present in 1977 aerial imagery but no structure is present on 1967 aerial imagery.		Ineligible	Select Eligibilty	No Historic Properties Affected	Select Effect	Prepared by Jorge L Lizardi Pollock, PhD on 5/1/2025 and approved by Elizabeth Atkins, M.A./Lauren Poche, M.A. on 5/16/2025.	
PR-ESP-00128	Ave Gautier Benitez B-13 Urb Villa Carmen	Caguas	251-003-345-13-001	18.215947	-66.043517	0.07	$18,478		https://maps.app.goo.gl/xABq1iQVYhpuNcY36	Circa 1960	Structure is present in 1962 aerial imagery. (Earliest imagery available)		Ineligible	Select Eligibilty	No Historic Properties Affected	Select Effect	Prepared by Jorge L Lizardi Pollock, PhD on 5/1/2025 and approved by Elizabeth Atkins, M.A./Lauren Poche, M.A. on 5/19/2025.	
PR-ESP-00119	Carr 303 Km 3.2 Bo. Olivares	Lajas	381-000-010-11-002	18.002324	-67.068464	4.15	$49,173		https://maps.app.goo.gl/njcZfAGqRzYVsYJR9	Circa 1970	Structure is present in 1975 aerial imagery. (Earliest imagery available)		Ineligible	Select Eligibilty	No Historic Properties Affected	Select Effect	Prepared by Jorge L Lizardi Pollock, PhD on 5/1/2025 and approved by Elizabeth Atkins, M.A./Lauren Poche, M.A. on 5/16/2025.	
PR-ESP-00212	CARR 102 KM 17.2 INT SECTOR PALMER #8	Lajas	358-051-088-13-001	18.043257	-67.058622	0.11	$50,000		https://maps.app.goo.gl/zNHFsKamhYbBfdaj9	Circa 1970	Structure is present in 1975 aerial imagery not on 1941-43 aerials.		Ineligible	Select Eligibilty	No Historic Properties Affected	Select Effect	Prepared by Jorge L Lizardi Pollock, PhD on 5/1/2025 and approved by Elizabeth Atkins, M.A./Lauren Poche, M.A. on 5/16/2025.	
PR-ESP-00139	1 D2 Villa Maria	Manatí	056-012-139-02-001	18.430947	-66.489996	0.1	$50,000		https://maps.app.goo.gl/rGA9JhwZsSi8A2T19	Circa 1960	Structure is present in 1967 aerial imagery. (Earliest available imagery)		Ineligible	Select Eligibilty	No Historic Properties Affected	Select Effect	Prepared by Jorge L Lizardi Pollock, PhD on 5/1/2025 and approved by Elizabeth Atkins, M.A./Lauren Poche, M.A. on 5/19/2025.	
PR-ESP-00229	CARR 125 KM 3.5	Moca	070-044-033-82-000	18.390318	-67.102544	0.33	$39,600		https://maps.app.goo.gl/PAU6ANFHx2TZwBuu7	Circa 1965	Structure is present in 1975 aerial imagery. Not present on 1958 aerial imagery.		Ineligible	Select Eligibilty	No Historic Properties Affected	Select Effect	Prepared by Jorge L Lizardi Pollock, PhD on 5/1/2025 and approved by Elizabeth Atkins, M.A./Lauren Poche, M.A. on 5/16/2025.	
PR-ESP-00125	V3-22 AVE SAN ALFONSO	San Juan	086-055-450-23-802	18.389325	-66.09498	0.08	$40,605		https://maps.app.goo.gl/ZgEfHEPtjHTwhFcRA	Circa 1955	Structure is present in 1962 aerial imagery (Earliest Available)		Ineligible	Select Eligibilty	No Historic Properties Affected	Select Effect	Prepared by Jorge L Lizardi Pollock, PhD on 5/1/2025 and approved by Elizabeth Atkins, M.A./Lauren Poche, M.A. on 5/19/2025.	
PR-ESP-00200	Urb Monte Carlos 1265 Ave Monte Carlos	San Juan	087-048-376-05-001	18.391794	-66.013808	0.09	$32,509		https://maps.app.goo.gl/LMkT6g8b3xuoPrd3A	Circa 1965	Structure is present in 1967 aerial imagery but absent from 1962 aerial Imagery.		Ineligible	Select Eligibilty	No Historic Properties Affected	Select Effect	Prepared by Jorge L Lizardi Pollock, PhD on 5/1/2025 and approved by Elizabeth Atkins, M.A./Lauren Poche, M.A. on 5/19/2025.	
PR-ESP-00257	773 AVE SAN PATRICIO	San Juan	086-025-418-32-802	18.398043	-66.095977	0.07	$34,941		https://maps.app.goo.gl/a7bhqV6ysub6zs7q8	Circa 1960	Structure is present in 1962 aerial imagery.(Earliest imagery available)		Ineligible	Select Eligibilty	No Historic Properties Affected	Select Effect	Prepared by Jorge L Lizardi Pollock, PhD on 5/1/2025 and approved by Elizabeth Atkins, M.A./Lauren Poche, M.A. on 5/16/2025.	

	Puerto Rico Department of Housing
	CDBG-DR ENERGY POWER RELIABILITY AND RESILIENCE/DDEC ENERGY SUPPORT PROGRAM (ESP)
	Improvements to Non-Historic Properties: Properties 45 Years or Greater, Not Individually Eligible or Listed in the National Register of Historic Places (NRHP), and Neither Adjacent to Nor Located Within an Eligible or Listed NRHP Historic District
	Proposed Undertakings Consist of the Installation of Photovoltaic Systems (PVS) and a Battery Storage Systems (BSS) on the Roof of the Subject Building
	SUBMISSION DATE: June 4, 2025 - 17 Cases

PROPERTY INFORMATION															NATIONAL REGISTER ELIGIBILITY		DETERMINATION OF EFFECT			
CASE ID	STREET ADDRESS	MUNICPALITY	PARCEL ID	LATITUDE	LONGITUDE	ACREAGE	ESTIMATED FUNDING	PHOTO (Current Aerial imagery and up to 3 photos: front, right, left)				LINK TO GOOGLE MAP	KEY DATES VERIFIED BY GOOGLE EARTH PRO, AERIAL PHOTO AND USGS MAPS			PRDOH ELIGIBILITY DETERMINATION	SHPO CONCURRENCE (SHPO USE ONLY)	PRDOH EFFECT DETERMINATION	SHPO CONCURRENCE (SHPO USE ONLY)	PREPARER AND DATE / APPROVER AND DATE	SHPO COMMENTS
PR-ESP-00264	CALLE 15 1265 EXT SAN AGUSTIN	San Juan	087-045-849-11-001 / 087-045-849-12-000	18.390973	-66.035318	0.24	$50,000					https://maps.app.goo.gl/1wwkHFUPcCAxjOWj8	Circa 1960	Structure is present in 1962 aerial imagery. (Earliest imagery available)		Ineligible	Select Eligibilty	No Historic Properties Affected	Select Effect	Prepared by Jorge L Lizardi Pollock, PhD on 5/1/2025 and approved by Elizabeth Atkins, M.A./Lauren Poche, M.A. on 6/2/2025.	
PR-ESP-00356	1727 Avenida Jesus T. Pinero	San Juan	086-024-411-06-001	18.397422	-66.099655	0.09	$31,317					https://maps.app.goo.gl/B1y9BLQyDTvoVnmy5	Circa 1960	Structure is present in 1962 aerial imagery.(Earliest available imagery)		Ineligible	Select Eligibilty	No Historic Properties Affected	Select Effect	Prepared by Jorge L Lizardi Pollock, PhD on 5/1/2025 and approved by Elizabeth Atkins, M.A./Lauren Poche, M.A. on 5/19/2025.	
PR-ESP-00149	CARR. 149 ESQUINA BORINQUEN #44	Villalba	294-081-038-05-001	18.127703	-66.494476	0.21	$33,654					https://maps.app.goo.gl/AMHr2K9kgNEn7Vnq8	Circa 1972	Structure is present in 1977 aerial imagery but absent on 1967 aerial imagery.		Ineligible	Select Eligibilty	No Historic Properties Affected	Select Effect	Prepared by Jorge L Lizardi Pollock, PhD on 5/1/2025 and approved by Elizabeth Atkins, M.A./Lauren Poche, M.A. on 5/19/2025.	

GOVERNMENT OF PUERTO RICO
DEPARTMENT OF HOUSING

April 30, 2024

Arch. Carlos A. Rubio Cancela
Executive Director
Puerto Rico State Historic Preservation Office
Cuartel de Ballajá, Third Floor
San Juan, Puerto Rico 00901

Re: Authorization to Submit Documents for Consultation

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 review services, among others, that will support the objectives of the agenda for both CDBG-DR and CDBG -MIT Programs.

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,

Aldo A. Rivera Vázquez, PE
Director
Division of Environmental Permitting and Compliance
Office of Disaster Recovery