

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

Project Information

Project Name: Demolición y Construcción Plaza del Mercado (PR-CRP-000521)

Responsible Entity: Puerto Rico Department of Housing (PRDOH)

State/Local Identifier: Puerto Rico/ PR-CRP-000521

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Consultant (if applicable): José D. Centeno Calero, PE - Ingenieros del Oeste CSP

Direct Comments to: Department of Housing (environmentcdbg@vivienda.pr.gov)

Project Location: José Perez Soler St and San Carlos St, Pueblo Ward, Quebradillas, PR 00678
Coordinates 18.47210, -66.93844 (PARCEL ID: 008-090-021-07)

Description of the Proposed Project [24 CFR 50.12 & 58.32; 40 CFR 1508.25]:

The purpose of this project is to revitalize the existing Plaza de Mercado - Benigno Perez Soler located in the Municipality of Quebradillas through a comprehensive demolition and new construction initiative. The property is owned by the Municipality of Quebradillas. The Demolition Phase includes the following activities: Demolition of the main existing 848 m2 (9,131.36 sq. ft.) structure, that is composed of ten reinforced concrete columns, is connected by a series of

reinforced concrete beams, and is roofed with steel beams and galvanized purlin-type structures covered by galvanized metal plates and, removal of approximately ten smaller concrete, block, and wood structures, that are located within the main structure and were established alongside the original construction from circa 1983. The new construction phase of the project will cover an area of 926 m² (10,000 sq. ft.). It includes the construction of six (6) small commercial "kiosks," modern sanitary facilities, reforested green spaces, pedestrian pathways with ADA-compliant ramps, inviting entrance features including a fountain, and seating areas with benches. Site preparation includes excavation of up to 1.2 to 1.8 m (4-6 feet) deep and installation of underground pipelines for water, sanitary and storm sewer, electricity, among other services. This involves linear trenching in sidewalk and pathway areas. Refer to Location Map in Exhibit 1.

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

This undertaking is intended to transform the area into a modern, vibrant, and accessible hub for commerce and community engagement. The new construction phase of the project envisions the creation of six small commercial "kiosks," modern sanitary facilities, reforested green spaces, pedestrian pathways with disability-friendly ramps, inviting entrance features including a fountain, and seating areas with benches. The proposed architectural style harmonizes modern and eco-friendly design principles, ensuring a resilient and adaptable architectural approach that aligns with the overall vision of urban revitalization. The proposed project considered address unsatisfied needs as a result of Hurricanes Irma and Maria in September 2017; and carry out strategic and high-impact activities to mitigate disaster risks and reduce future losses. The new Market Square is of vital importance for the municipality to re-establish economic activity, encourage job growth and provide open spaces that will be used and enjoyed by local residents, who will also be able make their market purchases with greater security and comfort. The project will create new open spaces that promote the healthy enjoyment of families by providing them with a comfortable, safe facility to recreate. The existing facilities need to be demolished due to the worsening state of the market square after the subsequent severe deterioration following the damage sustained by Hurricane Maria. If no action is taken, the facility will continue to deteriorate negatively impacting the community safety. Consequently, residents and visitors will not have access to an enhanced facility that will promote local commerce, entrepreneurship, and economic growth, enhance community interaction and cohesion, provide a resilient space for diverse activities, and preserve historical significance while embracing modern design principles.

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

The market square's location is integral to the original town layout. The Market Square was severely damaged by Hurricane Maria and the town believes the old facility needs to be torn down based on damage assessments and because the facility is outdated and not worth the cost to repair. The concept is of a modern, open, and eco-friendly building built for resiliency. It would impact the population of four local towns (a total of 22,918 residents in Barrios; Terranova, San Antonio, San José, Cocos, Guajataca, Charcas, Cacao, and urban center) and neighboring towns. The new Market Square would promote jobs that would provide particular benefit to women entrepreneurs and people of low and moderate income, according to the municipality. The facilities of this square would be administered under the municipal government. The municipality believes this project will create a new Market Square concept that will be open to everyone in the community. This original central structure features a roof supported by steel beams and galvanized frames, all

covered by galvalume metal plates. Additionally, surrounding the main system, approximately ten smaller establishments constructed from diverse materials, including concrete, blocks, and wood, are slated for demolition. The building has been determined not eligible to the NRHP and non-contributing to the Quebradillas Traditional Urban Center District.

Funding Information

Grant Number	HUD Program	Funding Amount
B-17-DM-72-0001	CDBG-DR	\$11,938,162,230
B-18-DP-72-0001		
B-19-DP-78-0002		
B-18-DE-72-0001		

Estimated Total HUD Funded Amount: \$2,329,691.47

Estimated Total Project Cost (HUD and non-HUD funds) [24 CFR 58.32(d)]: \$2,405,745.53.

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 and 58.6		
Airport Hazards 24 CFR Part 51 Subpart D	Yes No <input type="checkbox"/> <input checked="" type="checkbox"/>	Requirements of 24 CFR Part 51 Subpart D prohibit incompatible land uses on property within runway protection zones, clear zones, and accident potential zones. Projects require additional review if they are within 2,500 feet of a civil airport or 15,000 feet of a military airport. The project site is not within 15,000 feet of a military airport or 2,500 feet of a civilian airport, nor is it within an airport Runway Protection Zone (RPZ). The closest civil airport to the Project site is Rafael Hernandez Airport which is collocated

		<p>with the military Coast Guard Air Station Borinquen 62,800 ft west of the project site. The closest military airport is Luis Muñoz Marin Int. Airport is about 318,000 feet from project site.</p> <p>The project is not located within an FAA-designated civilian airport Runway Clear Zone (RCA) or Runway Protection Zone, or within the military Airfield Clear Zone (CZ) or Accident Potential Zone/Approach Protection Zone (APZ). Therefore, the project is in compliance with Airport Hazards requirements per 24 CFR Part 51 Subpart D.</p> <p>Refer to Airports Map in Exhibit 2.</p>
<p>Coastal Barrier Resources</p> <p>Coastal Barrier Resources Act, as amended by the Coastal Barrier Improvement Act of 1990 [16 USC 3501]</p>	<p>Yes No</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/></p>	<p>According to the US Fish and Wildlife Service Coastal Barrier Resources mapping, the project is not located in any coastal barrier resource zone of Puerto Rico. The nearest unit is Unit PR-78, approximately 11,820ft northwest of the project site. Therefore, the project has no potential to impact a CBRS unit and is in compliance with Coastal Barrier Resources Act.</p> <p>Refer to CBRS Map in Exhibit 3.</p>
<p>Flood Insurance</p> <p>Flood Disaster Protection Act of 1973 and National Flood Insurance Reform Act of 1994 [42 USC 4001-4128 and 42 USC 5154a]</p>	<p>Yes No</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/></p>	<p>The Project site is located in flood zone X unshaded, not in the 100-year Special Flood Hazard Area (SFHA), as indicated on the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM) Community Panel Number 72000C0180J, revised on November 18, 2009. All areas within the Commonwealth of Puerto Rico are eligible for NFIP policies. Flood Insurance is required when a project involves repairs, rehabilitation, or construction of an insurable structure in the 100-year floodplain. The proposed project is not within the 100-year floodplain and would not require flood insurance. The project is in compliance with Flood Disaster Protection Act of 1973 and National Flood Insurance Reform Act of 1994 [42 USC 4001-4128 and 42 USC 5154a].</p> <p>Refer to FIRMette map in Exhibit 4.</p>

STATUTES, EXECUTIVE ORDERS, AND REGULATIONS LISTED AT 24 CFR 50.4 & 58.5		
<p>Clean Air</p> <p>Clean Air Act, as amended, particularly section 176(c) & (d); 40 CFR Parts 6, 51, 93</p>	<p>Yes No</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/></p>	<p>The proposed project is located in the municipality of Quebradillas, which is in attainment status for all criteria pollutants per the EPA list of NAAQS criteria pollutants for all Puerto Rico Municipalities. Municipalities in nonattainment or maintenance areas include</p>

		<p>Arecibo, Bayamón, Cataño, Guaynabo, Salinas, San Juan, and Toa Baja. This project is in compliance with the Clean Air Act, as amended, particularly section 176(c) & (d); 40 CFR Parts 6, 51, 93.</p> <p>Refer to Exhibit 5 and 5A for Air Quality /Puerto Rico Nonattainment/Maintenance Status.</p>
<p>Coastal Zone Management</p> <p>Coastal Zone Management Act, sections 307(c) & (d)</p>	<p>Yes No</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/></p>	<p>The project site is located about 0.57 miles (2,980 feet) south from the Coastal Zone Land Boundary. Therefore, the project is in compliance with the Coastal Zone Management Act, sections 307(c) and (d).</p> <p>Refer to Coastal Zone map in Exhibit 6.</p>
<p>Contamination and Toxic Substances</p> <p>24 CFR Part 50.3(i) & 58.5(i)(2)</p>	<p>Yes No</p> <p><input checked="" type="checkbox"/> <input type="checkbox"/></p>	<p>HUD policy requires the project site and adjacent areas to be free of hazardous materials, contamination, toxic chemicals and gases, and radioactive substances where a hazard could affect health and safety of occupants of the property or conflict with intended use of the property. The project will not involve residents or increase in occupancy of any structure. There would be no increase in risk associated with the proposed project. Because the proposed project would not add sensitive receptors or increase density, the nearby sites of concern are not expected to result in contamination or have adverse impacts. They would not affect the health and safety of the project occupants because there are no occupants resulting from the proposed project. A review of EPA’s NEPAassist tool showed there are no records of toxic, hazardous, radioactive substances, or underground storage tanks (USTs) on Project Site.</p> <p>During the initial field inspection held on June 15, 2022, it was determined that a LBPs and ACMs test should be performed. According to the Section 106 document, the current building was constructed prior to 1978. Prior to 1978, paint containing lead was used. Testing for asbestos containing materials (ACMs) and lead-based paints (LBPs) were conducted by Nortol Environmental & Occupational Safety, Inc on June 23,2022. Bulk samples of suspect ACMs were collected for analysis. ACM was not detected in the samples collected. See Exhibit 7G. LBP was found at some project accessed components, some interior concrete walls have LBP and also were found on lead-glazed ceramics</p>

some walls or floors. See Exhibit 7H. According to PRDRNA Lead regulations, prior to disturbing LBP in a structure, the contaminated surfaces or substrates must be abated or removed. The firm providing the abatement services must be certified by the PRDRNA.

The proposed project activities do not include any contaminated materials, nor will there be exposure to contaminated materials or toxins from surrounding sites.

Within 3,000 feet of the project site there is one NPDES water discharge facility, four Resource Conservation and Recovery Act (RCRA) Hazardous Waste listings, two gas stations with UST, no Toxics Release Inventory (TRI) listings, no Toxic Substances Control Act (TSCA) listings. USEPA's Superfund, Envirofacts, and Enforcement and Compliance History Online (ECHO) reports were reviewed for more detailed information on statuses of these facilities. These sites do not have any releases reported or any EPA formal or informal action reported for the last five years in EPA's ECHO Detailed Facility Reports. The proposed action does not include the installation of any USTs. There is one leaking UST listed in the EPA database. It is located 2,850 feet to the south of the project site. The proposed project does not involve any residents. With these conditions and the distance, there would not be any impacts to the project site. The site of the reported release (Glamourette Fashion) is identified in EPA's ECHO Detailed Facility Report as a RCRA very small quantity generator, a TRI reporter, a CAA permittee with minor emissions, and Non-Major: Unpermitted Facility under the Clean Water Act. The most recently recorded water emission occurred in 1988. The last TRI report was in 1999. This facility has no reported violations in the last three years and no formal or informal enforcement actions in the last five years.

HUD issued Notice CPD-23-103 on January 11, 2024, regarding Departmental Policy for Addressing Radon in the Environmental Review Process. The Notice intends to clarify that radon must be considered in the Environmental Review analysis for all HUD funded projects.

As part of the evaluation for this determination, PRDOH sent information requests to six (6) local

		<p>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.</p> <p>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 abovementioned reasons, Radon testing is infeasible and impracticable for this property, and no further consideration of Radon is needed for the environmental review. and associated agency correspondence found in Exhibit 7I.</p> <p>Refer to Exhibit 7 for Toxic and Contamination Substance Map, Exhibit 7.1 for UST Tanks Map, Exhibits 7A to 7H for Toxic and Contamination Substances supporting documents, and Exhibit 7I for Memo for Justification for the Infeasibility and Impracticability of Radon Testing.</p>
<p>Endangered Species</p> <p>Endangered Species Act of 1973, particularly section 7; 50 CFR Part 402</p>	<p>Yes No</p> <p><input checked="" type="checkbox"/> <input type="checkbox"/></p>	<p>Per the Official Species List from the U.S. Fish and Wildlife Service (USFWS) Information for Planning and Consultation (IPaC) website, the Puerto Rican Boa can be found but there are no critical habitats at this location. Project will have no potential to affect species or habitats due to the nature of the activities involved in the project and qualifies under blanket clearance letter approved by USFWS on March 10, 2024.</p> <p>If a Puerto Rican Boa is encountered, work will cease until it moves off the site or, failing that, the Puerto Rico Department of Natural and Environmental Resources (PRDNER) Rangers will be notified for safe capture and relocation of the animal, in accordance with the USFW Puerto Rican Boa Conservation Measures guidelines.</p> <p>The project is in compliance with the Endangered Species Act. Refer to Exhibit 8 Critical Habitat Map and 8A for Endangered Species supporting documents.</p>
<p>Explosive and Flammable Hazards</p> <p>24 CFR Part 51 Subpart C</p>	<p>Yes No</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/></p>	<p>The proposed Project does not include a hazardous facility that mainly stores, handles, or processes flammable or combustible chemicals such as bulk fuel storage. Planned activities at the project area do not include installation of storage tanks. The scope of the proposed project does not include development, construction, conversion, or</p>

		<p>rehabilitation activities that would increase residential densities. The project would not introduce new housing. The project will not introduce new residents, employees or clients during the daytime hours who could be exposed to explosive or flammable hazards. A desktop aerial photograph review revealed no large aboveground storage tanks (AST) within 1 mile of the project site. Therefore, the project is following the Explosive and Flammable Hazards requirements.</p> <p>Refer to Exhibit 9 for Explosive and Flammable Hazards Map.</p>
<p>Farmlands Protection</p> <p>Farmland Protection Policy Act of 1981, particularly sections 1504(b) and 1541; 7 CFR Part 658</p>	<p>Yes No <input type="checkbox"/> <input checked="" type="checkbox"/></p>	<p>The project does not include any activities that could convert agricultural land to nonagricultural use. The proposed project is located in an already developed urban parcel. According to the U.S. Department of Agriculture, Natural Resources Conservation Service, Web Soil Survey, the project site is not situated on farmland soils and is not protected under the Farmland Protection Policy Act. Therefore, this topic complies with the regulation. Refer to Exhibit 10 for Farmland Protection Map.</p>
<p>Floodplain Management</p> <p>Executive Order 11988, particularly section 2(a); 24 CFR Part 55</p>	<p>Yes No <input type="checkbox"/> <input checked="" type="checkbox"/></p>	<p>The Project site is not in the 100-year Special Flood Hazard Area (SFHA), as indicated on the Advisory Base Flood Elevation map. The project site is within the Zone X (Unshaded) area of minimal flood hazard. In addition, the proposed project is not located in a Federal Flood Risk Management Standard (FFRMS) floodplain. The presence of the location in a FFRMS floodplain was assessed using the 0.2-Percent-Annual-Chance (500-Year) Flood Approach (0.2 PFA) as established by Executive Order 11988, amended by Executive Order 13690. The project site is not within the 0.2 percent chance of flood, nor is there any hydrologic or hydraulic data to indicate the likelihood of flooding at the project site. The project is not considered a critical action under 24 CFR Part 55.</p> <p>The Project is in compliance with Executive Order 11988, as amended by EO 13690, particularly section 2(a); 24 CFR Part 55. No formal compliance steps or mitigation are required.</p> <p>See Base Flood Elevations (ABFE) map included in Exhibit 11.</p>

<p>Historic Preservation</p> <p>National Historic Preservation Act of 1966, particularly sections 106 and 110; 36 CFR Part 800</p>	<p>Yes No</p> <p><input checked="" type="checkbox"/> <input type="checkbox"/></p>	<p>Consultation with the SHPO regarding the Department of Housing of Puerto Rico (PRDOH) Program was initiated on April 11, 2024, with a letter indicating that PRDOH contracted Horne Federal LLC to provide environmental registry review services, among others, that will support the objectives of the agenda for both CDBG-DR and CDBG -MIT Programs.</p> <p>On May 13, 2024, SHPO concluded that implementation of the undertaking will have no adverse effect on historic properties conditioned to archaeological monitoring during ground activities of the project. On June 4th, 2024, PRDOH submitted a Work Plan for Archaeological Monitoring to SHPO. This agency concurred with the plan on June 26, 2024. The Project is in compliance with the National Historic Preservation Act of 1966, particularly sections 106 and 110; 36 CFR Part 800.</p> <p>Refer to SHPO conditioned determination in Exhibit 12.</p>
<p>Noise Abatement and Control</p> <p>Noise Control Act of 1972, as amended by the Quiet Communities Act of 1978; 24 CFR Part 51 Subpart B</p>	<p>Yes No</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/></p>	<p>The proposed project does not involve establishment of new residences, an increase in residents, or introduction of other noise sensitive uses. The project does not require further evaluation under HUD’s noise regulation. The noise that will be produced during construction is generated by the operation of construction equipment. All equipment and machinery will have noise dampers maintained in accordance with manufacturer’s recommendations to control noise generation. Construction activities will be carried out during the day and have minimal impacts on the neighboring community. The noise levels attributable to construction activities will be temporary in nature and is not expected to exceed 65 dBA. Therefore, the project complies with with Noise Abatement and Control requirements.</p>
<p>Sole Source Aquifers</p> <p>Safe Drinking Water Act of 1974, as amended, particularly section 1424(e); 40 CFR Part 149</p>	<p>Yes No</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/></p>	<p>The project is not located within a U.S. EPA-designated sole source aquifer watershed area (including stream flow source areas). According to the information published by the United States Environmental Protection Agency (USEPA) in the Interactive Map of Single Source Aquifers (SSA), there are no Single Source Aquifers in Puerto Rico with the closest being in Florida, USA. Therefore, the project complies with this</p>

		regulation. See Sole Source Aquifers Map in Exhibit 13.
Wetlands Protection Executive Order 11990, particularly sections 2 and 5	Yes No <input type="checkbox"/> <input checked="" type="checkbox"/>	According to the National Wetlands Inventory (NWI) database, the project area is not within or adjacent to wetlands. Therefore, the project is in compliance with Wetlands Protection requirements. See Wetlands Map in Exhibit 14.
Wild and Scenic Rivers Wild and Scenic Rivers Act of 1968, particularly section 7(b) and (c)	Yes No <input type="checkbox"/> <input checked="" type="checkbox"/>	Puerto Rico has three Wild and Scenic Rivers, named La Mina, Icacos, and Mameyes, which are located in the east side of Puerto Rico. The proposed project locates approximately 402,950 ft northwest of the scenic rivers. There would be no impact to Wild and Scenic Rivers. This project is in compliance with the Wild and Scenic Rivers Act. See Wild and Scenic Rivers Map in Exhibit 15.
ENVIRONMENTAL JUSTICE		
Environmental Justice Executive Order 12898	Yes No <input type="checkbox"/> <input checked="" type="checkbox"/>	No adverse environmental impacts were identified in any other compliance review portion of this project that may disproportionately be high for low-income and/or minority communities. It does not have discriminatory elements excluding benefits from people due to ethnic origin or color, age, gender, religion, income, or disabilities. The proposed project would not result in the displacement of minority or low-income populations. The project is in compliance with Environmental Justice requirements.

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

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

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

Environmental Assessment Factor	Impact Code	Impact Evaluation
LAND DEVELOPMENT		
Conformance with Plans / Compatible Land Use and Zoning / Scale and Urban Design	2	The Project area is designated as UI "Urban Land." The Project would improve an existing public use/recreation area. The Project-related activities would occur within existing developed area and consist of repairs and enhancements of existing uses. All project aesthetics will conform to the surrounding area. No changes in zoning, easements, or land use are anticipated.
Soil Suitability/ Slope/ Erosion/ Drainage/ Storm Water Runoff	2	<p>The proposed project includes excavations. There would be no permanent changes to the site that would affect slope, drainage, or stormwater runoff. There are no indications of ground subsidence, major seismic activity, erosion, or any other unusual conditions at the site that would dictate that there could be soil problems, foundation cracking, or settling.</p> <p>The project design will comply with current codes related to erosion control and stormwater runoff. During construction activities, and in compliance with the USEPA NPDES Construction General Permit and the local stormwater runoff control regulations, the applicant will implement a Stormwater Pollution Prevention Plan that will include structural and non-structural BMPs to keep sediment in place (erosion control) and to capture any sediment that is moved by stormwater before it leaves the site (sediment control).</p>
Hazards and Nuisances including Site Safety and Noise	2	<p>The project site is in an urbanized area. The project would involve demolition, excavation, and construction. The hazards typically associated with construction activities would be present, temporary site safety issues and noise. The proposed project, once constructed, would not create and additional hazards or nuisances or create any new site safety or noise issues.</p> <p>Noise impacts would be addressed by conducting demolition and construction activities in accordance with local noise regulations and proper construction equipment maintenance. Standard BMPs, such as construction fencing, would be applied to protect the public from typical construction hazards. BMPs and signage would warn and protect the public during construction activities.</p>
SOCIOECONOMIC		

Employment and Income Patterns	1	Temporary employment of construction workers related to construction activities would result. Depending on the amount of tourism and use of the facility new temporary and permanent employees may be added. The proposed project would not negatively impact long-term employment or income patterns.
Demographic Character Changes, Displacement	1	The proposed project would not result in demographic character changes or displacement. Due to the nature of the project area, no relocations or demolition of residential structures or businesses would occur as part of this project. New kiosks for commercial spaces would be made available as a result of this project.
Environmental Justice	2	The project would not alter the Environmental Justice composition of the population in the area surrounding the project area. There are currently no residents at the project site, and the project would not increase the population that could be exposed to environmental hazards. No environmental hazards were identified on or surrounding the project site that could disproportionately environmental justice populations.

Environmental Assessment Factor	Impact Code	Impact Evaluation
COMMUNITY FACILITIES AND SERVICES		
Educational and Cultural Facilities	2	The project would not result in any change to regional or local area educational and cultural facilities or increase demand for them.
Commercial Facilities	1	Long-term beneficial impacts would result from new kiosks vendors. The project would not increase demand for commercial facilities.
Health Care and Social Services	2	Health care and social services facilities would not be impacted by the proposed project. It would not increase demand for health care and social services facilities.
Solid Waste Disposal / Recycling	2	The activities would generate solid waste (i.e., construction debris). Project-wide salvaging/recycling of materials would occur as determined feasible with other program requirements. All other materials would be taken to the appropriate landfills. A solid waste management plan would be developed and implemented to ensure that all potentially hazardous solid waste is handled properly, and that daily capacities of landfills and other solid waste facilities are not exceeded.
Waste Water / Sanitary Sewers	2	The project would include relocation of bathroom facilities. No new connections to municipal sanitary sewer system would be needed. The proposed project would not affect wastewater infrastructure and would not increase demand for service.

Water Supply	2	The project would include construction of new kiosks and bathrooms within the existing building footprint. No new connections to municipal water supply would be needed. The proposed project would not affect water infrastructure and would not increase demand for service. Existing on-site and nearby water connections would be used for construction activities.
Public Safety - Police, Fire and Emergency Medical	2	The proposed project would not increase the area population and so demand for police, fire, and emergency medical services in the community would not increase. Services at the project site would be provided by the existing community police, fire, and emergency medical services.
Parks, Open Space and Recreation	1	The proposed project would add a new economic and recreational open space. The new facilities would be beneficial to the existing public use and increase economic and recreational activities.
Transportation and Accessibility	2	Construction of the proposed project may result in minor temporary traffic increases and access issues during construction due to material deliveries or use of equipment. Emergency services would be notified of traffic control changes ahead of time, and access by emergency vehicles always would be allowed within the work zone. There would be no long-term impacts. Long-term access to the project would remain the same
Unique Natural Features, Water Resources	2	No stream or wetland would be affected by the changes to the park.
Vegetation, Wildlife	2	The proposed project activities would be within an existing urban public use/recreation area. The project would not impact native vegetation. Additionally, the proposed project would not impact wildlife or wildlife habitat.
Other Factors	2	No other factors were identified that would be affected by the proposed project.
Climate Change Impacts	2	Because the project is a rehabilitation of an existing public use/recreation space, there would be no changes to the site configuration or structure that would specifically address the possibility and uncertainty of rising sea levels or the possibility of increases in rainfall intensity. The Project site is not located in a 100-year floodplain. The project design would not change the area's urban heat island effects or stormwater runoff.
Energy Efficiency	2	The project would not result in any change in the area's energy demand. Regional energy use would not change. The addition

		of solar lighting would increase the project site energy efficiency.
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Additional Studies Performed:

An Asbestos Containing Materials survey and a Lead-Based Paint survey were conducted on June 23, 2022. See Exhibit 7G.

Field Inspection (Date and completed by):

- A field survey that was conducted at the proposed project site with the intent of evaluating the environmental aspects pursuant to Part 58 of Title 24 of the Code of Federal Regulations. It was determined the need to conduct a contaminant study. As a result of the study, existing floor slabs were found to have lead content. The mitigation work will be carried out prior to the demolition. In addition to those indicated above, no significant regulatory environmental risks were identified. All other environmental aspects related to the proposed action have been summarized in the regulatory Environmental Assessment statutory form. Completed by José D. Centeno PE on June 15, 2022. Refer to Exhibit 7F.

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

- Puerto Rico State Historic Preservation Office
- FAA, National Plan for Integrated Airport Systems: [www.faa.gov/airports/planning_capacity/npias/reports/NPIAS-Report-2017-2021-Appendix- B-Part6.pdf](http://www.faa.gov/airports/planning_capacity/npias/reports/NPIAS-Report-2017-2021-Appendix-B-Part6.pdf)
- John H. Chafee Coastal Barrier Resources System, Puerto Rico map. www.fws.gov/CBRA/Maps/Locator/PR.pdf
- National Wild and Scenic Rivers System: www.rivers.gov/puerto-rico.php
- Puerto Rico Community Development Block Grant Disaster Recovery Action Plan, July 2018. www.cdbg-dr.pr.gov/en/action-plan/
- Programmatic Agreement among the Federal Emergency Management Agency, the Puerto Rico State Historic Preservation Office and the Central Office for Recovery, Reconstruction and Resilience – amended to include the Puerto Rico Department of Housing.
- US Environmental Protection Agency, National Ambient Air Quality Standards, Nonattainment Areas for Criteria Pollutants (Green Book): www3.epa.gov/airquality/greenbook/anayo_pr.html
- US EPA, Environmental Topics, Air Topics: www.epa.gov/environmental-topics/air-topics
- US Fish and Wildlife Service, Environmental Conservation Online System: <https://ecos.fws.gov/ecp/report/species-listings-bystate?stateAbbrev=PR&stateName=Puerto%20Rico&statusCategory=Listed>
- Federal Emergency Management Agency, Flood Mapping Service: <https://msc.fema.gov/portal/home> (compilation of numerous maps)
- US Fish and Wildlife Service, National Wetlands Inventory: www.fws.gov/wetlands/data/mapper.html (compilation of numerous maps)
- Puerto Rico Coastal Zone Management Program Plan, September 2009.

- US EPA, Sole Source Aquifers. Esri HERE, Garmin, NOAA, USGS, EPA.
- US Geological Survey, Data Release of May Showing Concentration of Landslides Caused by Hurricane Maria, www.sciencebase.gov/catalog/item/59de6459e4b05fe04ccd39d8

List of Permits Obtained:

None.

Public Outreach [24 CFR 50.23 & 58.43]:

The local community has been very proactive in the recovery process. A Notice of Finding of No Significant Impact and Notice of Intent to Request Release of Funds (FONSI-NOI-RROF) will be published in a local newspaper. Copies of that public notice also will be sent to all known interested parties.

Cumulative Impact Analysis [24 CFR 58.32]:

In accordance with 24 CFR 58.32 (Aggregation), there are no cumulative impacts associated with the proposed project. The repair and improvements to the existing public spaces/recreation area would not change the land use of the spaces or the adjoining parcels. A slight increase in use of the spaces would result from their restoration and improvement.

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

As the action is to demolish and construct a new facility within the existing footprint, for community economic activity and recreational purposes within the urban area, no other location was considered. Other alternatives included renovation of existing the building damaged by María and Irma Hurricanes and was not considered due to severity of damages.

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

Under the No Action Alternative, the applicant would not receive federal funding for the project and the proposed project will not be implemented.

Summary of Findings and Conclusions:

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

In addition, the Project is anticipated to provide overall beneficial social and economic effects to the Municipality of Quebradillas by addressing the recreational needs of the populations and providing new opportunities for economic development as a result of increased activity in the disadvantaged communities where the project is taking place.

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

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

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

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

Law, Authority, or Factor	Mitigation Measure
Endangered Species	Conservation measures for the Puerto Rican Boa need to be implemented if the Boa is encountered during construction.
Contamination and Toxic Substances 24 CFR Part 50.3(i) & 58.5(i)(2)	LBP components were identified in the LBP Survey would be removed during the demolition of the existing building in project site. The applicable federal and state regulations would be followed during the building renovation to protect worker safety and to provide abatement, storage, and disposal of LBP elements. The firm providing the abatement services would be certified by the PRDRNA.
Solid Waste Disposal / Recycling	Salvaging/recycling of materials shall be as determined feasible with other program requirements. A solid waste management plan shall be developed and implemented.
Soil Suitability/ Slope/ Erosion/Drainage/ Storm Water Runoff	The project design will comply with current codes related to erosion control and stormwater runoff. During construction activities, and in compliance with the USEPA NPDES Construction General Permit and the local stormwater runoff control regulations, the applicant will implement a Stormwater Pollution Prevention Plan that will include structural and non-structural BMPs to keep sediment in place (erosion control) and to capture any sediment that is moved by stormwater before it leaves the site (sediment control).There

List of Figures and Agency Documents

- Exhibit 1.** Location Map
- Exhibit 2.** Airport Hazards Map
- Exhibit 3.** Coastal Barrier Resources Act Map
- Exhibit 4.** Flood Insurance Map
- Exhibit 5.** Air Quality / Puerto Rico Nonattainment/Maintenance Status Map
- Exhibit 5A.** Air Quality / Puerto Rico Nonattainment/Maintenance Status
- Exhibit 6.** Coastal Zone Management Map
- Exhibit 7.** Toxic and Contamination Substances Map
 - Exhibit 7.1** Underground Storage Tanks Map
 - Exhibit 7A** Detailed Facility Report
 - Exhibit 7B** Detailed Facility Report
 - Exhibit 7C** Detailed Facility Report
 - Exhibit 7D** Detailed Facility Report
 - Exhibit 7E** Detailed Facility Report
 - Exhibit 7F** Field Inspection Report
 - Exhibit 7G** ACM Survey Report
 - Exhibit 7H** Lead-Based Paint Survey Report
 - Exhibit 7I** Memo for Justification for the Infeasibility and Impracticability of Radon Testing
- Exhibit 8.** Critical Habitat Map
- Exhibit 8A.** Endangered Species Documents
- Exhibit 9.** Explosive and Flammable Hazards Map
- Exhibit 10.** Farmland Protection
- Exhibit 11.** Base Flood Elevations (ABFE) Map
- Exhibit 12.** Historic Preservation
- Exhibit 13.** Sole Source Aquifers Map
- Exhibit 14.** Wetland Map
- Exhibit 15.** Wild and Scenic Rivers Map

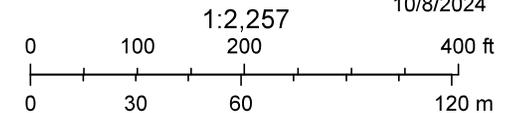
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Legend:

 Project Site

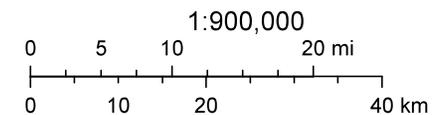


Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community



Legend:

-  Project Site
-  Airport Points
-  Airport Polygons



Earthstar Geographics, EPA OEI

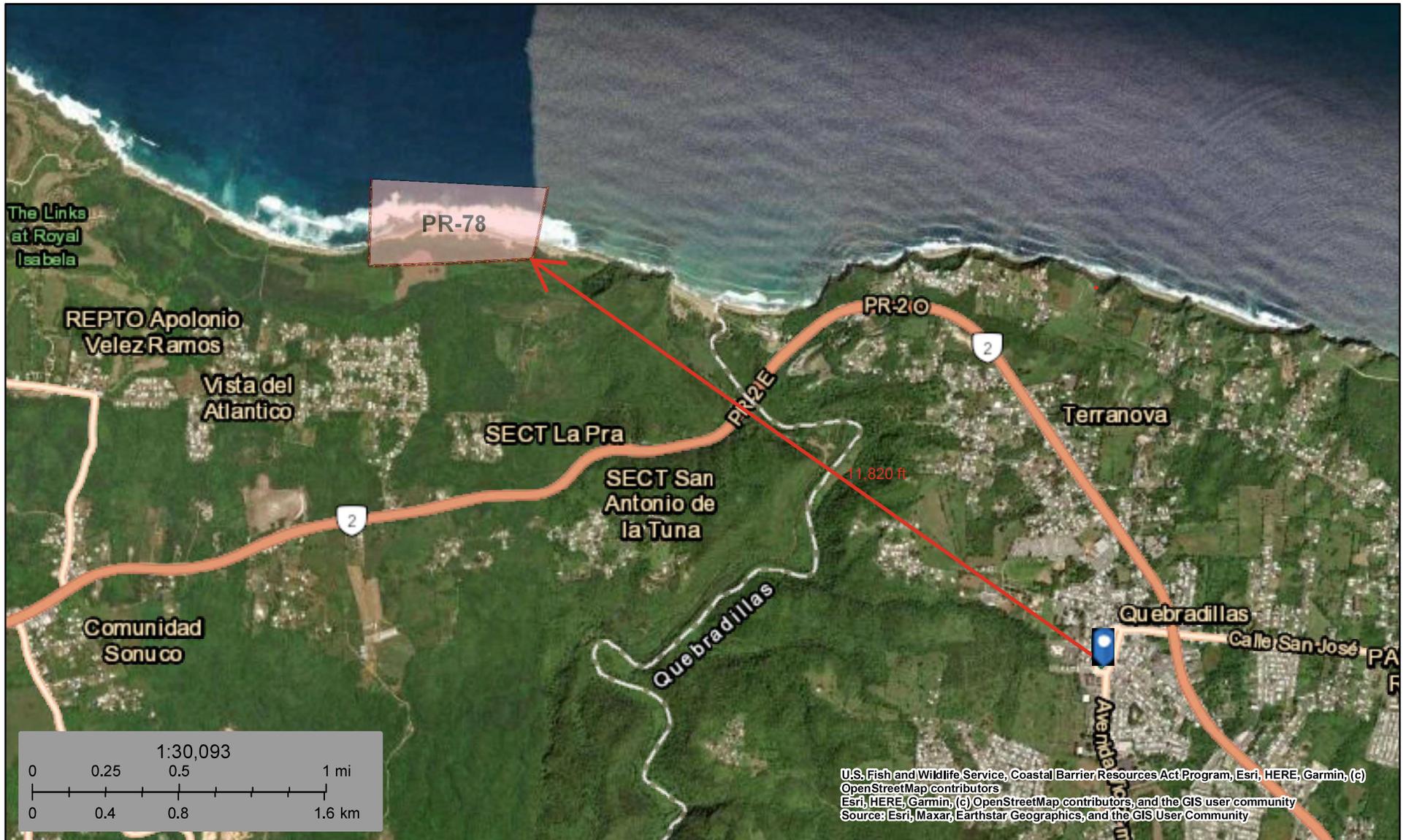
December 2018, 2024



U.S. Fish and Wildlife Service
Coastal Barrier Resources System

Exhibit 3 PR-CRP-000521 Demolición y
 Construcción Plaza del Mercado

José Perez Soler St and San Carlos St, Pueblo Ward, Quebradillas, PR 00678
 Coordinates 18.47210, -66.93844



Legend:

CBRS Buffer Zone

CBRS Units

Otherwise Protected Area

System Unit

Project Site



This map is for general reference only. The Coastal Barrier Resources System (CBRS) boundaries depicted on this map are representations of the controlling CBRS boundaries, which are shown on the official maps, accessible at <https://www.fws.gov/library/collections/official-coastal-barrier-resources-system-maps>. All CBRS related data should be used in accordance with the layer metadata found on the CBRS Mapper website.

The CBRS Buffer Zone represents the area immediately adjacent to the CBRS boundary where users are advised to contact the Service for an official determination (<https://www.fws.gov/service/coastal-barrier-resources-system-property-documentation>) as to whether the property or project site is located "in" or "out" of the CBRS.

CBRS Units normally extend seaward out to the 20- or 30-foot bathymetric contour (depending on the location of the unit). The true seaward <https://fwsprimary.wim.usgs.gov/CBRSMapper-v2/>

Exhibit 4 National Flood Hazard Layer FIRMette



66°56'37"W 18°28'36"N <https://msc.fema.gov/portal/search?AddressQuery=-66.93844%2C%2018.47210>

Legend

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

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) <i>Zone A, V, A99</i>
		With BFE or Depth <i>Zone AE, AO, AH, VE, AR</i>
		Regulatory Floodway

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

OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard <i>Zone X</i>
		Effective LOMRs
		Area of Undetermined Flood Hazard <i>Zone D</i>

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

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

MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped

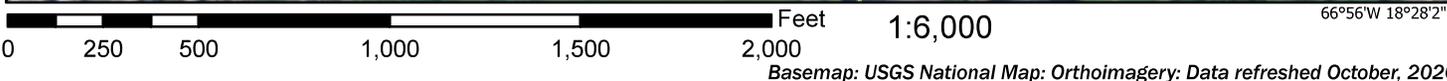
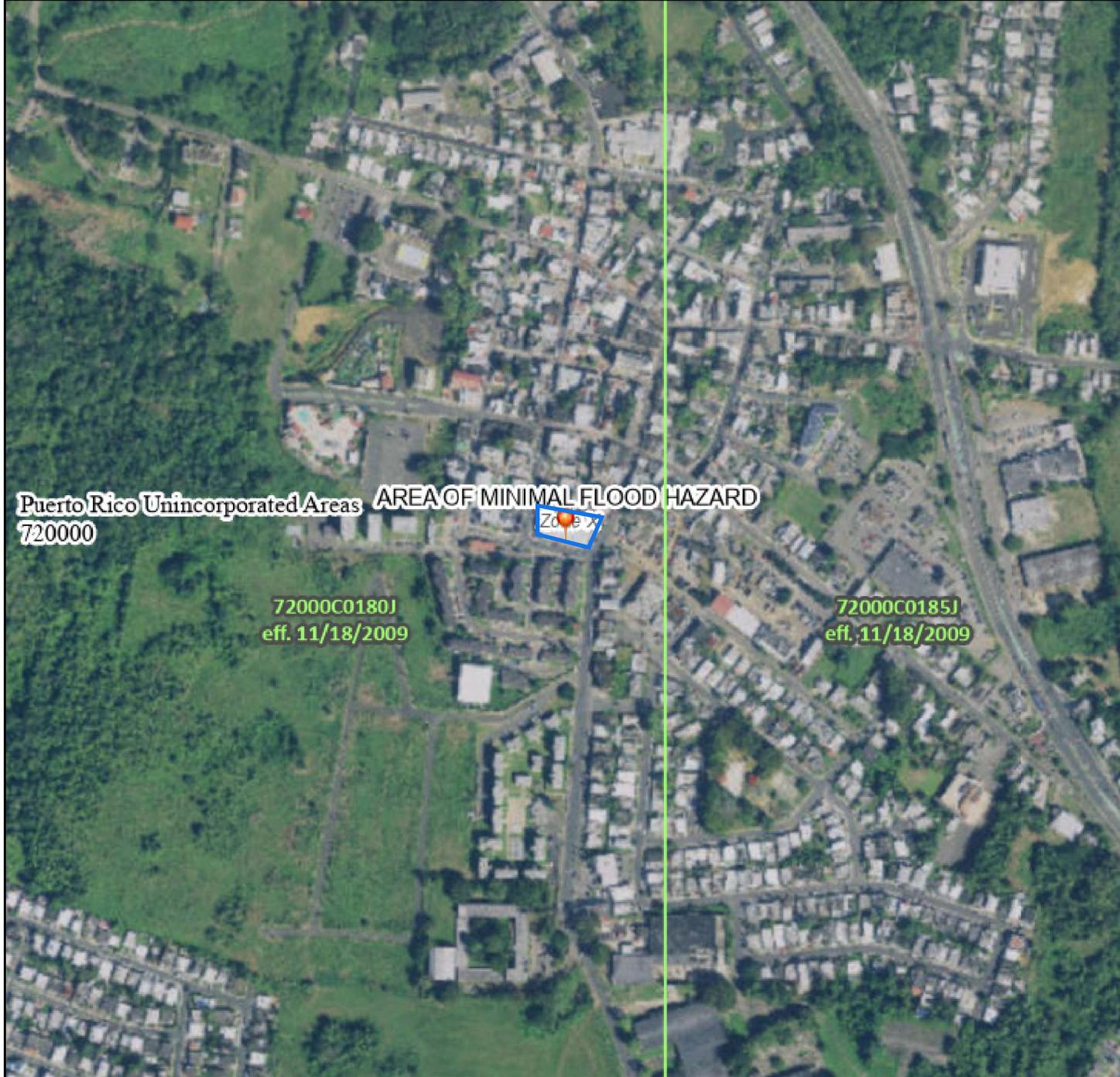
The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

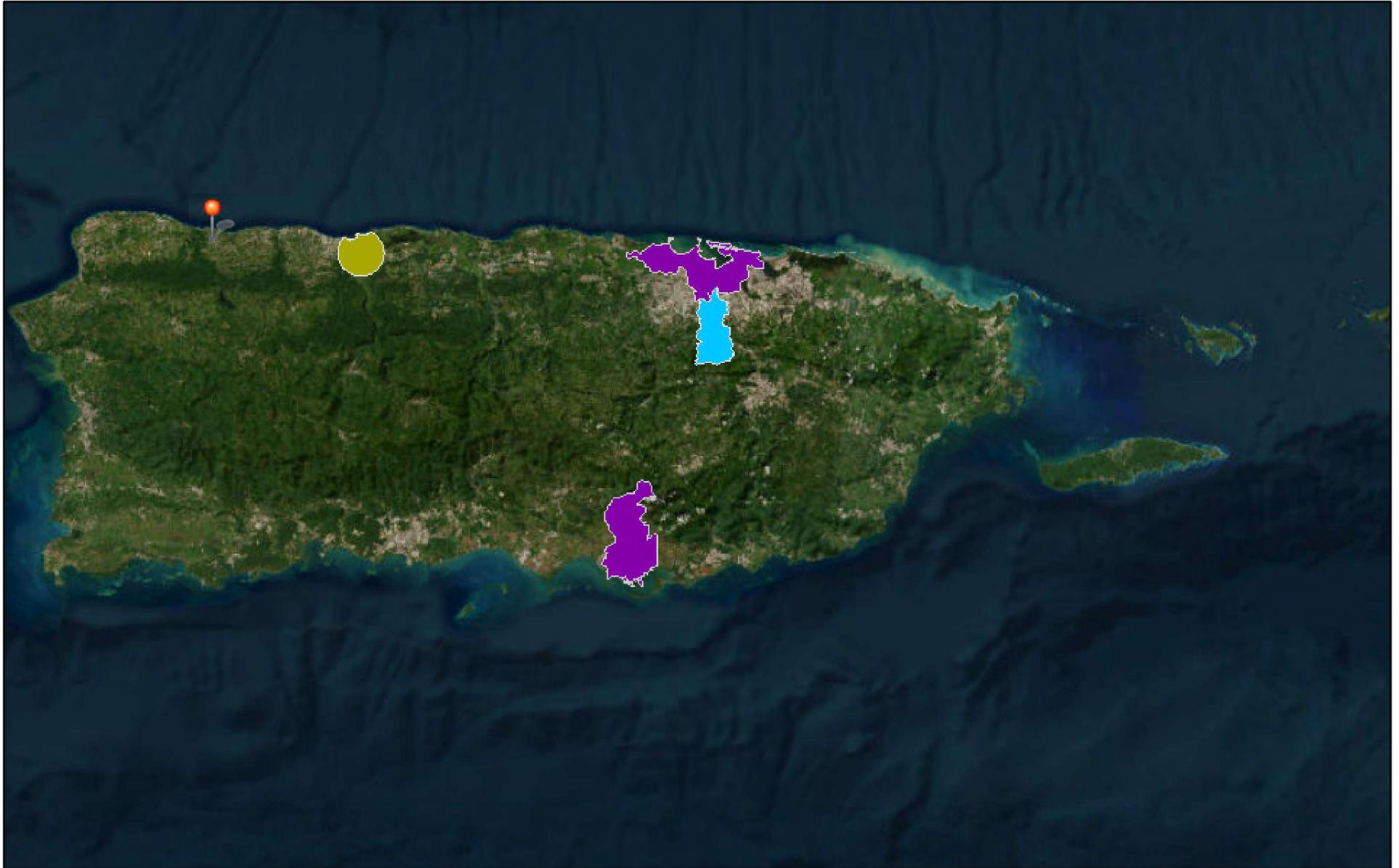
Project Site

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on **9/14/2022 at 11:03 AM** and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

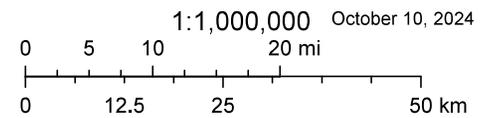
This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.





Legend:

-  Project Site
-  Lead (2008 standard) Nonattainment
-  SO2 1-hr (2010 standard) Nonattainment
-  PM10 (1987 standard) Maintenance



Earthstar Geographics, U.S. EPA Office of Air and Radiation (OAR) - Office of Air Quality Planning and Standards (OAQPS)

Exhibit 5A

PR-CRP-000521 Demolición y Construcción Plaza del Mercado
 Jose Perez Soler St and San Carlos St, Quebradillas, PR 00678
 Coordinates 18.47210, -66.93844

Air Quality / Puerto Rico Nonattainment/Maintenance Status list

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

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

Data is current as of September 30, 2024

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

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

Change the State:

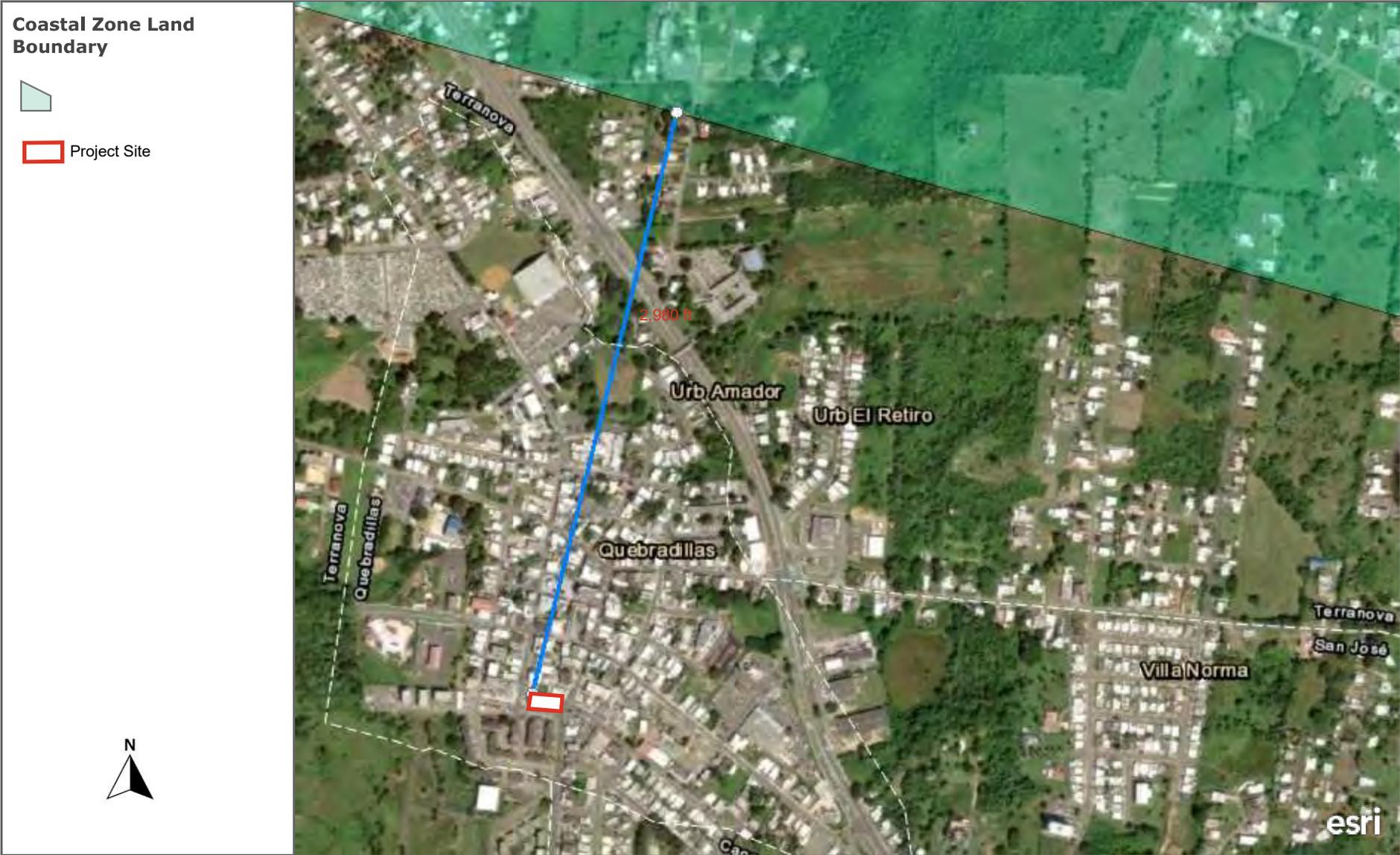
[Download National Dataset: dbf](#) | [xls](#) | [Data dictionary \(PDF\)](#)

Important Notes

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	//		Part	32,185	72/013
Bayamon Municipio	Sulfur Dioxide (2010)	San Juan, PR	18 19 20 21 22 23 24	//		Part	22,921	72/021
Catano Municipio	Sulfur Dioxide (2010)	San Juan, PR	18 19 20 21 22 23 24	//		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	//		Part	23,802	72/061
Salinas Municipio	Sulfur Dioxide (2010)	Guayama-Salinas, PR	18 19 20 21 22 23 24	//		Part	23,401	72/123
San Juan Municipio	Sulfur Dioxide (2010)	San Juan, PR	18 19 20 21 22 23 24	//		Part	147,963	72/127
Toa Baja Municipio	Sulfur Dioxide (2010)	San Juan, PR	18 19 20 21 22 23 24	//		Part	52,441	72/137

https://www3.epa.gov/airquality/greenbook/anayo_pr.html

Exhibit 6 Coastal Zone Map

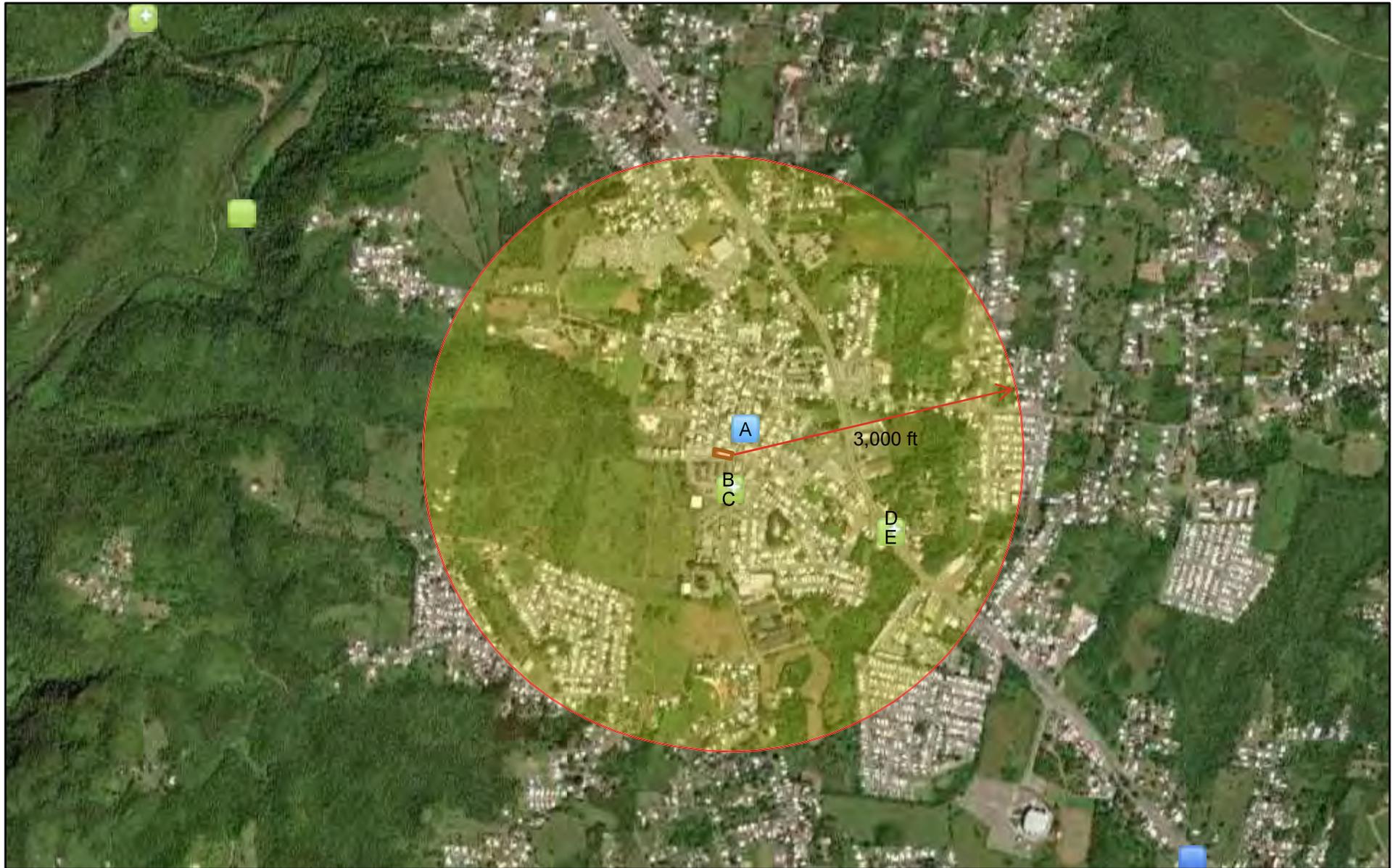


Puerto Rico Coastal Vulnerability Viewer This tool is intended to provide a preliminary assessment of coastal resources and infrastructure at risk due to climate change and sea le ...

0.2km

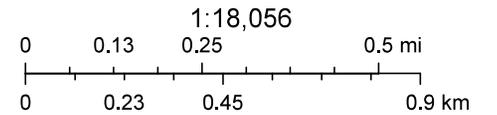
Maxar | Esri, HERE, Garmin, iPC

10/9/24



Legend:

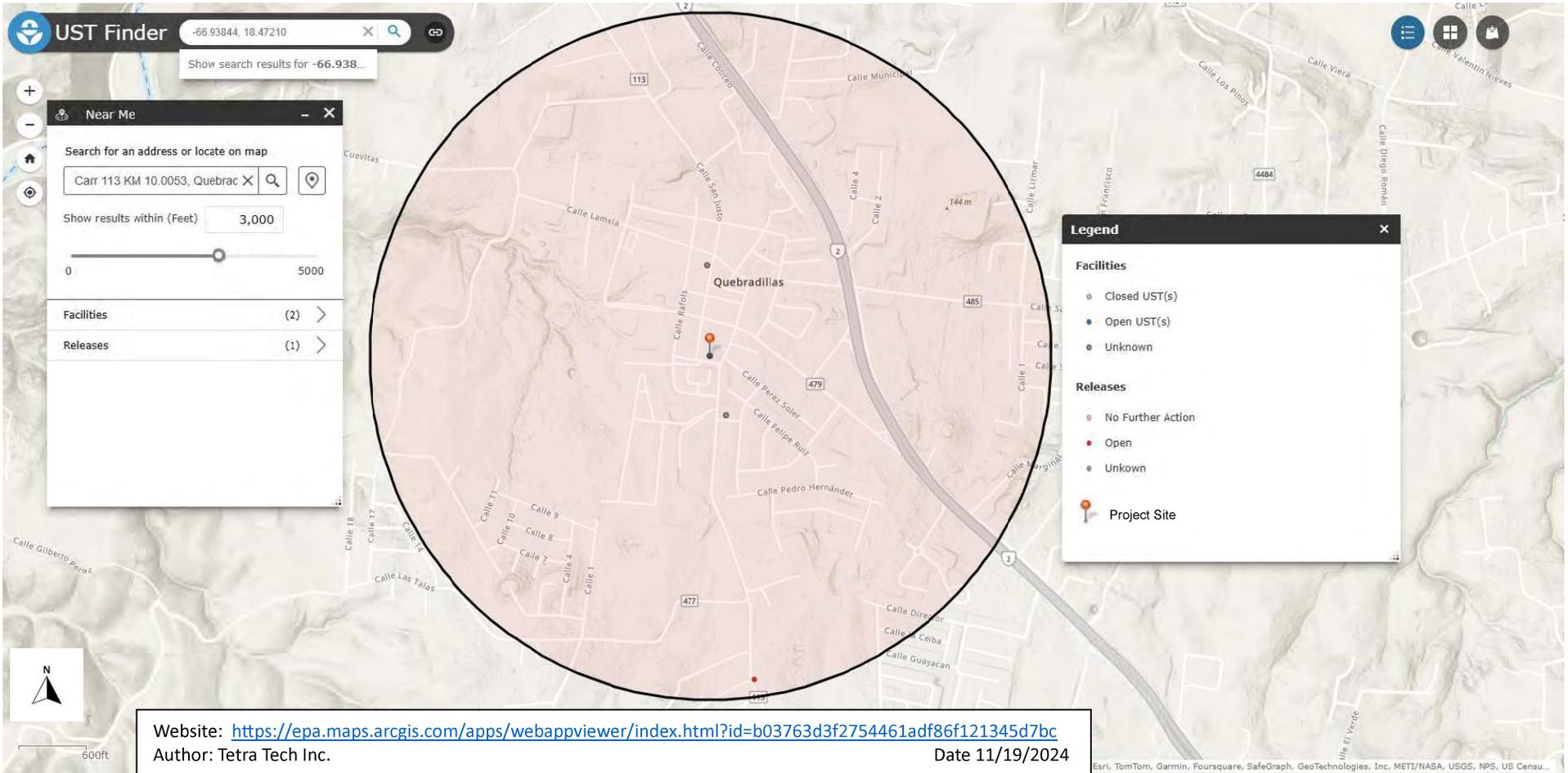
- | | | |
|--|--|--|
|  Air Pollution (ICIS-AIR) |  Hazardous Waste (RCRAInfo) |  Project Site |
|  Hazardous Waste (RCRAInfo) |  Water Dischargers (NPDES) |  Buffer |



October 9, 2024

Exhibit 7.1 Underground Storage Tanks Map

PR-CRP-000521Demolición y Construcción Plaza del Mercado
José Perez Soler St and San Carlos St, Pueblo Ward, Quebradillas, PR 00678
Coordinates 18.47210, -66.93844





Detailed Facility Report

Facility Summary

QUEBRADILLAS

CALLE SAN CARLOS #60, QUEBRADILLAS, PR 00678

FRS (Facility Registry Service) ID: 110064630305

EPA Region: 02

Latitude: 18.47281

Longitude: -66.93779

Locational Data Source: FRS

Industries: --

Indian Country: N

Enforcement and Compliance Summary

Statute	CWA
Compliance Monitoring Activities (5 years)	--
Date of Last Compliance Monitoring Activity	12/04/2012
Compliance Status	Unknown
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): Non-Major, Permit Expired; Compliance Tracking Partially Off (PRR040069)

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		110064630305					N	18.47281	-66.93779
ICIS-NPDES	CWA	PRR040069	Non-Major: General Permit Covered Facility	Expired; Compliance Tracking Partially Off	Urban Stormwater (Small MS4)	06/30/2021	N	18.47389	-66.937101

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110064630305	QUEBRADILLAS	CALLE SAN CARLOS #60, QUEBRADILLAS, PR 00678	
ICIS-NPDES	CWA	PRR040069	QUEBRADILLAS	CALLE SAN CARLOS #60, QUEBRADILLAS, PR 00678	Quebradillas 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 Industrial Effluent Guidelines

Identifier	Effluent Guideline (40 CFR Part)	Effluent Guideline 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
CWA	PRR040069	No	06/30/2024	0	10/04/2024

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	QTR 12
CWA (Source ID: PRR040069)		07/01-09/30/21	10/01-12/31/21	01/01-03/31/22	04/01-06/30/22	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
	Facility-Level Status	Unknown											
	Quarterly Noncompliance Report History	Undetermined											

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?
210100020506	Non-contributing area-Name not assigned	--	No	No	--	Yes

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
PR	2022	PRNE4A	QUEBRADA BELLACA ESTUARY	Unknown - With Restoration Plan	--	--	Insufficient Information	--	Insufficient Information	--

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

CWA (Clean Water Act) Discharge Monitoring Report (DMR) Pollutant Loadings

DMR and TRI Multi-Year Loading Report

NPDES ID	Description
----------	-------------

No data records returned

Community

Environmental Justice

This section shows indexes from EJScreen, EPA's screening tool for environmental justice (EJ) concerns. EPA uses these indexes to identify geographic areas that may warrant further consideration or analysis for potential EJ concerns. Use of these indexes does not designate an area as an "EJ community" or "EJ facility." EJScreen provides screening level indicators, not a determination of the existence or absence of EJ concerns. For more information, see the EJScreen home page.

Potential Environmental Justice Concerns

- US Territory
- Supplemental/EJ index percentiles >= 90 (Census block group)
- Supplemental/EJ index percentiles >= 90 (1-mile average)

EJScreen Indexes Shown

Index Type

Related Reports

EJScreen Community Report

Download Data

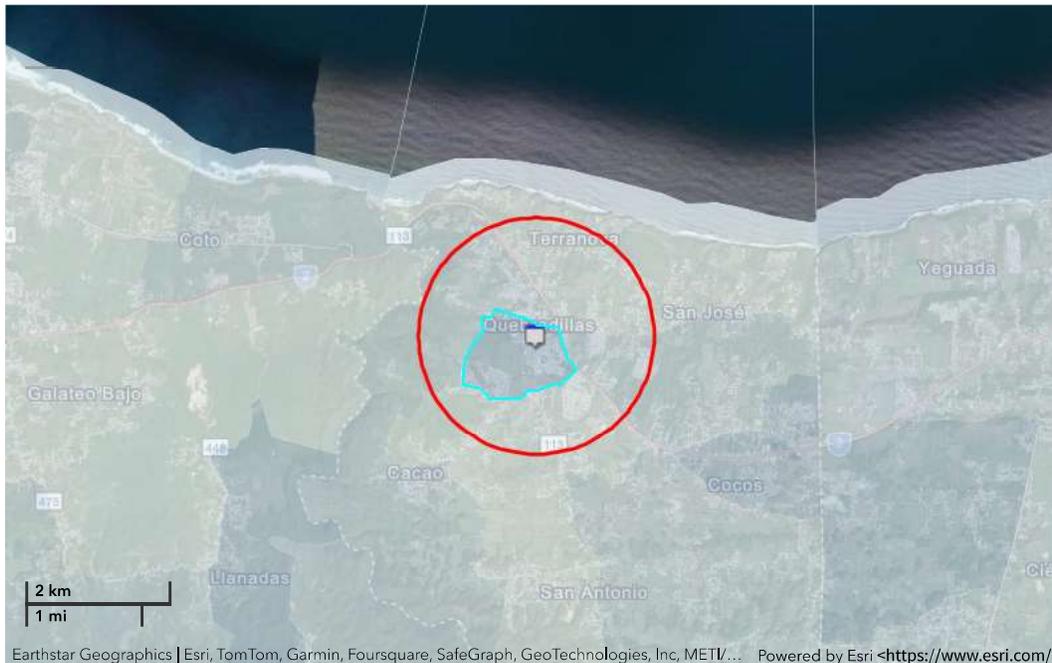
Census Block Group ID: 721153302002	US (Percentile)			State (Percentile)		
	Supplemental Indexes	Facility Census Block Group	1-mile Avg	1-mile Max	Facility Census Block Group	1-mile Avg
Count of Indexes At or Above 90th Percentile	6	6	6	0	0	0
Particulate Matter 2.5	--	N/A	--	--	N/A	--
Ozone	--	N/A	--	--	N/A	--
Diesel Particulate Matter	0	0	--	15	15	26
Air Toxics Cancer Risk	54	53	54	75	63	75
Air Toxics Respiratory Hazard Index	37	35	37	75	64	75
Toxic Releases to Air	99	99	99	76	72	76
Traffic Proximity	96	94	98	65	56	73

Census Block Group ID: 721153302002	US (Percentile)			State (Percentile)		
	Facility Census Block Group	1-mile Avg	1-mile Max	Facility Census Block Group	1-mile Avg	1-mile Max
Lead Paint	99	93	99	89	63	89
Risk Management Plan (RMP) Facility Proximity	94	94	95	56	55	59
Hazardous Waste Proximity	49	47	49	2	2	3
Superfund Proximity	92	90	92	11	10	12
Underground Storage Tanks (UST)	98	94	99	87	70	89
Wastewater Discharge	43	40	49	2	2	2

Map Display Based on: US State

Display Map Layer:

Facility 1-mile Radius Facility Census Block Group



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 2021 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	6,072
Population Density	2,116/sq.mi.
Housing Units in Area	2,754
Percent People of Color	99%
Households in Area	2,208
Households on Public Assistance	216
Persons With Low Income	4,978
Percent With Low Income	82%

Geography	
Radius of Selected Area	1 mi.
Center Latitude	18.47281
Center Longitude	-86.93779

Age Breakdown (ACS (American Community Survey)) - Persons (%)	
Children 5 years and younger	179 (3%)
Minors 17 years and younger	1,160 (19%)
Adults 18 years and older	4,914 (81%)
Seniors 65 years and older	1,362 (22%)

Race Breakdown (ACS (American Community Survey)) - Persons (%)	
White	4,536 (75%)
African-American	0 (0%)
Hispanic-Origin	5,954 (98%)
Asian	0 (0%)
Hawaiian/Pacific Islander	0 (0%)
American Indian	21 (0%)
Other/Multiracial	668 (11%)

Geography	
Land Area	92%
Water Area	8%
Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than \$15,000	997 (45.15%)
\$15,000 - \$25,000	378 (17.12%)
\$25,000 - \$50,000	605 (27.4%)
\$50,000 - \$75,000	197 (8.92%)
Greater than \$75,000	31 (1.4%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	657 (14.62%)
9th through 12th Grade	435 (9.68%)
High School Diploma	1,240 (27.6%)
Some College/2-year	377 (8.39%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	841 (18.72%)



Detailed Facility Report

Facility Summary

LUMA - QUEBRADILLAS TECHNICAL OPERATIONS OFFICE

81 CALLE SOCORRO, QUEBRADILLAS, PR 00678

FRS (Facility Registry Service) ID: 110043192309

EPA Region: 02

Latitude: 18.471423

Longitude: -66.935819

Locational Data Source: FRS

Industries: Utilities

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

Other Regulatory Reports

Air Emissions Inventory (EIS): No Information

Greenhouse Gas Emissions (eGGRT): No Information

Toxic Releases (TRI): No Information

Resource Conservation and Recovery Act (RCRA): Inactive Other, (PRR000023457)

Compliance and Emissions Data Reporting Interface (CEDRI):

Safe Drinking Water Act (SDWA): No Information

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		110043192309					N	18.471423	-66.935819
RCRAInfo	RCRA	PRR000023457	Other	Inactive ()			N	18.47184	-66.936367

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110043192309	LUMA - QUEBRADILLAS TECHNICAL OPERATIONS OFFICE	81 CALLE SOCORRO, QUEBRADILLAS, PR 00678	Quebradillas Municipio
RCRAInfo	RCRA	PRR000023457	LUMA - QUEBRADILLAS TECHNICAL OPERATIONS OFFICE	81 CALLE SOCORRO, QUEBRADILLAS, PR 00678	Quebradillas Municipio

Facility SIC (Standard Industrial Classification) Codes

System	Identifier	SIC Code	SIC Description
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No data records returned

Facility NAICS (North American Industry Classification System) Codes

System	Identifier	NAICS Code	NAICS Description
RCRAInfo	PRR000023457	22112	Electric Power Transmission, Control, and Distribution

Facility Tribe Information

Reservation Name	Tribe Name	EPA Tribal ID	Distance to Tribe (miles)
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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)
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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	PRR000023457	No	10/05/2024	0	10/04/2024

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	QTR 12+
RCRA (Source ID: PRR000023457)		10/01-12/31/21	01/01-03/31/22	04/01-06/30/22	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
Facility-Level Status		No Violation Identified											
Violation		Agency											

Informal Enforcement Actions

Last 5 Years

Statute	System	Source ID	Type of Action	Lead Agency	Date
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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
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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?
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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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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)
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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
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No data records returned

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

Chemical Name

No data records returned

Community

Environmental Justice

This section shows indexes from EJScreen, EPA's screening tool for environmental justice (EJ) concerns. EPA uses these indexes to identify geographic areas that may warrant further consideration or analysis for potential EJ concerns. Use of these indexes does not designate an area as an "EJ community" or "EJ facility." EJScreen provides screening level indicators, not a determination of the existence or absence of EJ concerns. For more information, see the EJScreen home page.

Potential Environmental Justice Concerns

US Territory

Supplemental/EJ index percentiles >= 90 (Census block group)

Supplemental/EJ index percentiles >= 90 (1-mile average)

EJScreen Indexes Shown

Index Type	Supplemental (default)
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Related Reports

EJScreen Community Report

Download Data

Census Block Group ID: 721153302002	US (Percentile)			State (Percentile)		
	Facility Census Block Group	1-mile Avg	1-mile Max	Facility Census Block Group	1-mile Avg	1-mile Max
Supplemental Indexes						
Count of Indexes At or Above 90th Percentile	6	6	6	0	0	0
Particulate Matter 2.5	--	N/A	--	--	N/A	--
Ozone	--	N/A	--	--	N/A	--
Diesel Particulate Matter	0	0	--	15	15	26
Air Toxics Cancer Risk	54	53	54	75	63	75
Air Toxics Respiratory Hazard Index	37	35	37	75	64	75
Toxic Releases to Air	99	99	99	76	72	76

Census Block Group ID: 721153302002	US (Percentile)			State (Percentile)		
	Facility Census Block Group	1-mile Avg	1-mile Max	Facility Census Block Group	1-mile Avg	1-mile Max
Traffic Proximity	96	94	98	65	56	73
Lead Paint	99	93	99	89	64	89
Risk Management Plan (RMP) Facility Proximity	94	94	95	56	55	59
Hazardous Waste Proximity	49	47	49	2	2	3
Superfund Proximity	92	90	92	11	11	12
Underground Storage Tanks (UST)	98	95	99	87	73	89
Wastewater Discharge	43	39	49	2	2	2

Map Display Based on: US State

Display Map Layer

Facility 1-mile Radius Facility Census Block Group



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 2021 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	6,548
Population Density	2,274/sq.mi.
Housing Units in Area	2,947
Percent People of Color	99%
Households in Area	2,367
Households on Public Assistance	229
Persons With Low Income	5,342
Percent With Low Income	82%

Age Breakdown (ACS (American Community Survey)) - Persons (%)	
Children 5 years and younger	195 (3%)
Minors 17 years and younger	1,286 (20%)
Adults 18 years and older	5,263 (80%)
Seniors 65 years and older	1,392 (21%)

Race Breakdown (ACS (American Community Survey)) - Persons (%)	
White	4,934 (75%)
African-American	0 (0%)
Hispanic-Origin	6,407 (98%)
Asian	0 (0%)
Hawaiian/Pacific Islander	0 (0%)
American Indian	28 (0%)
Other/Multiracial	728 (11%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	684 (14.35%)
9th through 12th Grade	442 (9.27%)
High School Diploma	1,315 (27.58%)
Some College/2-year	415 (8.7%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	896 (18.79%)

Geography	
Radius of Selected Area	1 mi.
Center Latitude	18.471423
Center Longitude	-66.935819
Land Area	92%
Water Area	8%

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than \$15,000	1,081 (45.69%)
\$15,000 - \$25,000	382 (16.15%)
\$25,000 - \$50,000	647 (27.35%)
\$50,000 - \$75,000	218 (9.21%)
Greater than \$75,000	38 (1.61%)



Detailed Facility Report

Facility Summary

**PR PUBLIC HOUSING FRANCISCO VIGO
SALAS**

**RD 113 & RAFOLS ST, QUEBRADILLAS, PR
00678**

FRS (Facility Registry Service) ID: 110007816426

EPA Region: 02

Latitude: 18.471109

Longitude: -66.938243

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

Other Regulatory Reports

Air Emissions Inventory (EIS): No Information

Greenhouse Gas Emissions (eGGRT): No Information

Toxic Releases (TRI): No Information

Resource Conservation and Recovery Act (RCRA): Inactive Other, (PRR000001263) **Compliance and Emissions Data Reporting Interface (CEDRI):**

Safe Drinking Water Act (SDWA): No Information 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		110007816426					N	18.471109	-66.938243
RCRAInfo	RCRA	PRR000001263	Other	Inactive ()			N	18.471109	-66.938243

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110007816426	PR PUBLIC HOUSING FRANCISCO VIGO SALAS	RD 113 & RAFOLS ST, QUEBRADILLAS, PR 00678	Quebradillas Municipio
RCRAInfo	RCRA	PRR000001263	PR PUBLIC HOUSING FRANCISCO VIGO SALAS	RD 113 & RAFOLS ST, QUEBRADILLAS, PR 00678	Quebradillas 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	PRR000001263	No	10/05/2024	0	10/04/2024

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	QTR 12+
	RCRA (Source ID: PRR000001263)	10/01-12/31/21	01/01-03/31/22	04/01-06/30/22	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
	Facility-Level Status	No Violation Identified											
	Violation	Agency											

Informal Enforcement Actions

Last 5 Years

Statute	System	Source ID	Type of Action	Lead Agency	Date
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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
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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?
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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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No data records returned

Air Quality Nonattainment Areas

Pollutant	Within Nonattainment Area?	Nonattainment Status Applicable Standard(s)	Within Maintenance Status Area?	Maintenance Status Applicable Standard(s)
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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
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No data records returned

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

Chemical Name

No data records returned

Community

Environmental Justice

This section shows indexes from EJScreen, EPA's screening tool for environmental justice (EJ) concerns. EPA uses these indexes to identify geographic areas that may warrant further consideration or analysis for potential EJ concerns. Use of these indexes does not designate an area as an "EJ community" or "EJ facility." EJScreen provides screening level indicators, not a determination of the existence or absence of EJ concerns. For more information, see the EJScreen home page.

Potential Environmental Justice Concerns

US Territory

Supplemental/EJ index percentiles ≥ 90 (Census block group)

Supplemental/EJ index percentiles ≥ 90 (1-mile average)

EJScreen Indexes Shown

Index Type	Supplemental (default)
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Related Reports

EJScreen Community Report

Download Data

Census Block Group ID: 721153302002	US (Percentile)			State (Percentile)		
	Facility Census Block Group	1-mile Avg	1-mile Max	Facility Census Block Group	1-mile Avg	1-mile Max
Count of Indexes At or Above 90th Percentile	6	6	6	0	0	0
Particulate Matter 2.5	--	N/A	--	--	N/A	--
Ozone	--	N/A	--	--	N/A	--
Diesel Particulate Matter	0	0	--	15	15	26
Air Toxics Cancer Risk	54	53	54	75	64	75
Air Toxics Respiratory Hazard Index	37	35	37	75	65	75
Toxic Releases to Air	99	99	99	76	73	76
Traffic Proximity	96	94	98	65	54	73
Lead Paint	99	93	99	89	62	89
Risk Management Plan (RMP) Facility Proximity	94	93	95	56	54	59
Hazardous Waste Proximity	49	47	49	2	2	3

Census Block Group ID: 721153302002	US (Percentile)			State (Percentile)		
	Facility Census Block Group	1-mile Avg	1-mile Max	Facility Census Block Group	1-mile Avg	1-mile Max
Superfund Proximity	92	90	92	11	10	12
Underground Storage Tanks (UST)	98	94	99	87	72	89
Wastewater Discharge	43	40	49	2	2	2

Map Display Based on: US State

Display Map Layer

Facility 1-mile Radius Facility Census Block Group



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 2021 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	6,286
Population Density	2,150/sq.mi.
Housing Units in Area	2,831
Percent People of Color	99%
Households in Area	2,279
Households on Public Assistance	224
Persons With Low Income	5,170
Percent With Low Income	82%

Geography	
Radius of Selected Area	1 mi.
Center Latitude	18.471109
Center Longitude	-66.938243
Land Area	94%
Water Area	6%

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than \$15,000	1,036 (45.42%)
\$15,000 - \$25,000	394 (17.27%)
\$25,000 - \$50,000	620 (27.18%)
\$50,000 - \$75,000	198 (8.68%)
Greater than \$75,000	33 (1.45%)

Age Breakdown (ACS (American Community Survey)) - Persons (%)	
Children 5 years and younger	190 (3%)
Minors 17 years and younger	1,221 (19%)
Adults 18 years and older	5,066 (81%)
Seniors 65 years and older	1,363 (22%)

Race Breakdown (ACS (American Community Survey)) - Persons (%)	
White	4,703 (75%)
African-American	0 (0%)
Hispanic-Origin	6,158 (98%)
Asian	0 (0%)
Hawaiian/Pacific Islander	0 (0%)
American Indian	25 (0%)
Other/Multiracial	690 (11%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	664 (14.35%)
9th through 12th Grade	439 (9.49%)
High School Diploma	1,305 (28.2%)
Some College/2-year	384 (8.3%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	861 (18.61%)



Detailed Facility Report

Facility Summary

COINCO PUERTO RICO INC

RTE 2 KM 100.8, QUEBRADILLAS, PR 00742

FRS (Facility Registry Service) ID: 110007805884

EPA Region: 02

Latitude: 18.4699

Longitude: -66.933471

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	12/18/1985
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, (PRD090060088)

Other Regulatory Reports

Air Emissions Inventory (EIS): No Information

Greenhouse Gas Emissions (eGGRT): No Information

Toxic Releases (TRI): No Information

Safe Drinking Water Act (SDWA): 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		110007805884					N	18.4699	-66.933471
RCRAInfo	RCRA	PRD090060088	Other	Inactive ()			N		

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110007805884	COINCO PUERTO RICO INC	RTE 2 KM 100.8, QUEBRADILLAS, PR 00742	Quebradillas Municipio
RCRAInfo	RCRA	PRD090060088	COINCO PUERTO RICO INC	RTE 2 KM 100.8, QUEBRADILLAS, PR 00742	Quebradillas Municipio

Facility SIC (Standard Industrial Classification) Codes

System	Identifier	SIC Code	SIC Description
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No data records returned

Facility NAICS (North American Industry Classification System) Codes

System	Identifier	NAICS Code	NAICS Description
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No data records returned

Facility Tribe Information

Reservation Name	Tribe Name	EPA Tribal ID	Distance to Tribe (miles)
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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)
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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	PRD090060088	No	10/05/2024	0	10/04/2024

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	QTR 12+
	RCRA (Source ID: PRD090060088)	10/01-12/31/21	01/01-03/31/22	04/01-06/30/22	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
	Facility-Level Status	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 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

Environmental Justice

This section shows indexes from EJScreen, EPA's screening tool for environmental justice (EJ) concerns. EPA uses these indexes to identify geographic areas that may warrant further consideration or analysis for potential EJ concerns. Use of these indexes does not designate an area as an "EJ community" or "EJ facility." EJScreen provides screening level indicators, not a determination of the existence or absence of EJ concerns. For more information, see the EJScreen home page.

Potential Environmental Justice Concerns

US Territory

Supplemental/EJ index percentiles ≥ 90 (Census block group)

Supplemental/EJ index percentiles ≥ 90 (1-mile average)

EJScreen Indexes Shown

Index Type	Supplemental (default)
------------	------------------------

Related Reports

EJScreen Community Report

Download Data

Census Block Group ID: 721153301002	US (Percentile)			State (Percentile)		
	Facility Census Block Group	1-mile Avg	1-mile Max	Facility Census Block Group	1-mile Avg	1-mile Max
Count of Indexes At or Above 90th Percentile	4	6	6	0	0	0
Particulate Matter 2.5	--	N/A	--	--	N/A	--
Ozone	--	N/A	--	--	N/A	--
Diesel Particulate Matter	0	0	4	11	14	34
Air Toxics Cancer Risk	52	35	54	41	0	75
Air Toxics Respiratory Hazard Index	33	35	37	42	61	75
Toxic Releases to Air	97	98	99	62	71	77
Traffic Proximity	90	94	98	47	54	73
Lead Paint	62	91	99	24	59	89
Risk Management Plan (RMP) Facility Proximity	93	94	98	53	55	71
Hazardous Waste Proximity	43	46	52	2	2	4

Census Block Group ID: 721153301002	US (Percentile)			State (Percentile)		
	Facility Census Block Group	1-mile Avg	1-mile Max	Facility Census Block Group	1-mile Avg	1-mile Max
Superfund Proximity	86	90	93	9	10	16
Underground Storage Tanks (UST)	92	95	99	69	73	89
Wastewater Discharge	26	37	49	0	2	2

Map Display Based on: US State

Display Map Layer

Facility 1-mile Radius Facility Census Block Group



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 2021 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	7,031
Population Density	2,428/sq.mi.
Housing Units in Area	3,127
Percent People of Color	98%
Households in Area	2,520
Households on Public Assistance	240
Persons With Low Income	5,743
Percent With Low Income	82%

Geography	
Radius of Selected Area	1 mi.
Center Latitude	18.4699
Center Longitude	-66.933471
Land Area	93%
Water Area	7%

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than \$15,000	1,176 (46.69%)
\$15,000 - \$25,000	382 (15.16%)
\$25,000 - \$50,000	682 (27.07%)
\$50,000 - \$75,000	233 (9.25%)
Greater than \$75,000	46 (1.83%)

Age Breakdown (ACS (American Community Survey)) - Persons (%)	
Children 5 years and younger	218 (3%)
Minors 17 years and younger	1,419 (20%)
Adults 18 years and older	5,611 (80%)
Seniors 65 years and older	1,427 (20%)

Race Breakdown (ACS (American Community Survey)) - Persons (%)	
White	5,316 (76%)
African-American	0 (0%)
Hispanic-Origin	6,850 (97%)
Asian	0 (0%)
Hawaiian/Pacific Islander	0 (0%)
American Indian	35 (1%)
Other/Multiracial	780 (11%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	732 (14.49%)
9th through 12th Grade	450 (8.91%)
High School Diploma	1,380 (27.31%)
Some College/2-year	478 (9.46%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	947 (18.74%)



Detailed Facility Report

Facility Summary

OUTDOOR FOOTWEAR CO INC

RD 2 KM 100.8, QUEBRADILLAS, PR 00742

FRS (Facility Registry Service) ID: 110007810226

EPA Region: 02

Latitude: 18.4699

Longitude: -66.933471

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, (PRD982794828)

Other Regulatory Reports

Air Emissions Inventory (EIS): No Information

Greenhouse Gas Emissions (eGGRT): No Information

Toxic Releases (TRI): No Information

Safe Drinking Water Act (SDWA): 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		110007810226					N	18.4699	-66.933471
RCRAInfo	RCRA	PRD982794828	Other	Inactive ()			N		

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110007810226	OUTDOOR FOOTWEAR CO INC	RD 2 KM 100.8, QUEBRADILLAS, PR 00742	Quebradillas Municipio
RCRAInfo	RCRA	PRD982794828	OUTDOOR FOOTWEAR CO INC	RD 2 KM 100.8, QUEBRADILLAS, PR 00742	Quebradillas Municipio

Facility SIC (Standard Industrial Classification) Codes

System	Identifier	SIC Code	SIC Description
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No data records returned

Facility NAICS (North American Industry Classification System) Codes

System	Identifier	NAICS Code	NAICS Description
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No data records returned

Facility Tribe Information

Reservation Name	Tribe Name	EPA Tribal ID	Distance to Tribe (miles)
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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)
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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	PRD982794828	No	10/05/2024	0	10/04/2024

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	QTR 12+
	RCRA (Source ID: PRD982794828)	10/01-12/31/21	01/01-03/31/22	04/01-06/30/22	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
	Facility-Level Status	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
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No data records returned

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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?
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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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No data records returned

Air Quality Nonattainment Areas

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

No data records returned

Pollutants

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or Transferred in Pounds per Year at Site

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-----------------	------	---------------	--------------------------	--	------------------------	------------------	------------------------	--------------------------

No data records returned

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

Chemical Name

No data records returned

Community

Environmental Justice

This section shows indexes from EJScreen, EPA's screening tool for environmental justice (EJ) concerns. EPA uses these indexes to identify geographic areas that may warrant further consideration or analysis for potential EJ concerns. Use of these indexes does not designate an area as an "EJ community" or "EJ facility." EJScreen provides screening level indicators, not a determination of the existence or absence of EJ concerns. For more information, see the EJScreen home page.

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Supplemental/EJ index percentiles >= 90 (Census block group)

Supplemental/EJ index percentiles >= 90 (1-mile average)

EJScreen Indexes Shown

Index Type	Supplemental (default)
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Related Reports

EJScreen Community Report

Download Data

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Map Display Based on: US State

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B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	947 (18.74%)

Calle José de Diego #65, Aguadilla
PO BOX 4448 Aguadilla PR 00605
ingenierosdeloestecsp@gmail.com
Tel. / Fax. (787) 891-8256

2 de octubre de 2024

Luis Fernández Pagán
Manager, CDBG-DR
Oficina de Programas Federales
Gobierno Municipal de Quebradillas
cdbgdr@quebradillas.pr.gov

IDO/GMQ 25

Asunto: Inspección del sitio del proyecto PR-CRP-000521 Demolición y Construcción Plaza del Mercado

**Ref.: Proyecto: PLAZA DEL MERCADO, Quebradillas, Puerto Rico
(Contrato 2022-DR0252)**

Saludos,

Yo José D. Centeno Calero, Ingeniero Licenciado, certifico que, como resultado de un reconocimiento de campo que se llevó a cabo en el sitio del proyecto propuesto con la intención de evaluar los aspectos ambientales de conformidad con la Parte 58 del Título 24 del Código de Reglamentos Federales, se determinó la necesidad de realizar un estudio de contaminantes. Como resultado del estudio se encontró que las losas de piso existentes tienen contenido de plomo. Los trabajos de mitigación se realizarán previo a la demolición.

En adición a lo antes indicado, no se identificaron riesgos ambientales regulatorios importantes. Todos los demás aspectos ambientales relacionados con la acción propuesta se han resumido en el formulario reglamentario de Evaluación Ambiental.

De necesitar información adicional puede comunicarse al (787) 551-7297.

Atentamente,

Ing. José D. Centeno Calero



Exhibit 7G

ASBESTO CONTAINING MATERIALS SURVEY

Environmental Assessment CDBG-DR
"Demolición y Construcción Plaza de Mercado", Quebradillas, PR
PR-CRP-000521



ASBESTOS-CONTAINING MATERIALS SURVEY

COMMERCIAL STRUCTURE: PLAZA DEL MERCADO

PR-2, Quebradillas, Puerto Rico 00678



Inspection Date: June 23, 2022

Prepared for: Ingenieros del Oeste CSP

Prepared by: Nortol Environmental & Occupational Safety, Inc.

Inspectors:

Roberto Rodríguez
Asbestos Inspector
ASB-0322-0095-SI

Angelee Córdón
Asbestos Inspector
ASB-0422-0136-SI



NORTOL has performed this survey in a thorough and professional manner consistent with commonly accepted industry standards.

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Table of Contents

Acronyms	3
Introduction	4
Asbestos Survey Report	4
Survey Protocol	
Sampling Procedures	
Regulatory Review	
Survey Areas – Extent of Survey Coverage	
Findings	
Conclusion	7

Attachment 1 – Inspector’s Credentials

Attachment 2 – Table Asbestos Summary Findings

Attachment 3 – Representative Pictures\Photograph Log

Attachment 4 – Asbestos Laboratory Report and Chain of Custody

Attachment 5 – Laboratory Certificates

Attachment 6 – Diagram: Bulk Sample Approximated Location

Attachment 7 – Certification Non-Presence of Asbestos (PGC-009)



Acronyms

A/C	=	Air Conditioning
ACM	=	Asbestos-containing Material
ACBM	=	Asbestos-containing Building Material
AHERA	=	Asbestos Hazard Emergency Response Act
ASHARA	=	Asbestos School Hazard Abatement and Reauthorization Act
CFR	=	Code of Federal Regulations
CPSC	=	Consumer Product Safety Commission
EPA	=	Environmental Protection Agency
Ft2	=	square feet
HUD	=	Department of Housing and Urban Development
LF	=	Linear Feet
NESHAP'S	=	National Emission Standards for Hazardous Air Pollutants
NIOSH	=	National Institute for Occupational Safety and Health
OSHA	=	Occupational Safety and Health Administration
PLM	=	Polarized Light Microscopy
PRDOH	=	Puerto Rico Department of Housing
PRDNER	=	Puerto Rico Department of Natural and Environmental Resources
SACM	=	Suspect ACM
SOW	=	Scope of Work
TEM	=	Transmission Electron Microscopy
TSI	=	Thermal System Insulation
VFT	=	Vinyl floor tiles



I. INTRODUCTION

As part of the environmental due diligence, this survey is intended to assess the general presence, quantity, and location of suspected asbestos-containing materials (SACM) at the commercial structure: Plaza del Mercado property located at PR-2, Quebradillas, P.R. 00678.

The SACM survey was conducted on June 23, 2022, by Mr. Roberto Rodríguez (ACM inspector num. ASB-0322-0095-SI), and Ms. Angelee Cordón (ACM inspector num. ASB-0422-0136-SI) from Nortol. Inspector's credentials are included in the **Attachment 1**. Nortol's survey areas and report are limited to the details provided in the Section II part D.

Nortol identified SACM and bulk sample(s) were collected and submitted for laboratory analysis. The bulk sample's results were reported by the laboratory as "None Detected" or <1%. Table of asbestos summary findings is included as **Attachment 2**. Safe access to the roof was not feasible.

There are concrete/metal structural components. The floors are ceramic tiles or bare concrete. Ceramic tiles are also present on some walls.

II. ASBESTOS SURVEY REPORT

A. Survey Protocol:

This activity was conducted following the latest protocol for assessing materials suspected of containing asbestos as defined by the U.S. Environmental Protection Agency (EPA). It involved a visual walk-through inspection of the accessible areas of the building to develop an inventory of suspect ACM homogeneous materials. During the sampling activities, suspect ACM was touched and observed by the inspector to determine its friability and physical condition. A friable material is defined as a material that when dry, can be crumbled, or reduced to powder by the hand pressure. Friability of a material causally relates to a potential of the asbestos fibers to be released. The inspector assessed the suspect ACM according to their physical condition and potential damage.

B. Sampling Procedure:

The technique used for sampling the suspected accessible materials was designed to minimize possible fiber release and in turn possible contamination of surrounding areas. Representative suspected material samples were collected in accordance with the EPA's AHERA/ASHARA guidelines and procedures presented in the *Guide for Controlling Asbestos Containing Materials in Building* (EPA 560-6-85-024, June 1985) and characterized following the *National Emission Standard for Hazardous Air Pollution (NESHAP)*, subpart M-Asbestos, 40 CFR Part 61-Standard for Demolition and Renovation. Samples of the homogeneous accessible materials were collected in



quantities enough to determine asbestos content, and then placed in airtight bags. The bagged samples were properly collected, labeled, and identified. A Chain of Custody form was completed for collected bulk samples which were analyzed by an independent laboratory using PLM method. The laboratory utilizes dispersion staining techniques according to US EPA method 600/M4-82-020 incorporating visual estimates of identified material percentages.

C. Regulatory Review:

According to NESHAP's standards (40 CFR 61.141), Asbestos Containing Building Materials are classified into three categories: Category I - Nonfriable asbestos-containing material (ACM), Category II – other Nonfriable ACM, and Regulated asbestos-containing material (RACM). ACM's are classified into three categories according to EPA-AHERA/ASHARA's standards (40 CFR Part 763): Surfacing material, Thermal System Insulation (TSI) and Miscellaneous material.

Once the inspector has identified the ACM in a building, he or she must perform a physical assessment of TSI and friable material. Under § 763.88 of the AHERA Rule, the physical assessment of ACBM involve classifying the material into one of the following seven Categories: Damaged or significantly damaged TSI ACM; Damaged friable surfacing ACM; Significantly damaged friable surfacing ACM; Damaged or significantly damaged friable miscellaneous ACM; ACBM with potential for damage; ACBM with potential for significant damage; and Any remaining friable ACBM or friable suspected ACBM.

The PRDNER- former Environmental Quality Board (Regulation for the Control of Atmospheric Pollution-Rule 422) enacted in 1995, required all commercial and public building, including industries to identify asbestos containing building materials in their structures and take appropriate actions to control the release of asbestos fiber. Asbestos inspection is part of the permitting application process for any future project in the buildings which may include renovation or demolition activities regulated by the PR State/Municipal Offices. To obtain demolition permits in Puerto Rico is necessary to includes a certification (OGP-PGC-009 or equivalent) stating that there is not asbestos containing material in the project.

D. Survey Areas – Extent of Survey Coverage:

The survey included a detailed structure inspection providing a general sense of the overall location, type, quantity, and condition of potential ACMs present. The survey was thorough in the interior or exterior accessible functional spaces, and bulk samples taken of suspect materials observed. The presence of asbestos in suspect materials was assumed or presumed in some cases without bulk samples being collected or analyzed (when applicable). This was necessary for locations where materials were inaccessible or areas that were unsafe to access (e.g., elevated heights, energized equipment, confined spaces, etc.). For those areas that were not



safely accessible, suspect materials observed or presumed to be present were documented and assumed as ACMs. The survey did not include intrusive and/or exploratory testing. **Safe access to the roof was not feasible.**

Areas Not Included in Survey and Service Constraints: All professional opinions presented in this report are based on information made available either by review of data provided by others or data gathered by Nortol personnel. Nortol affirms that data gathered and presented by Nortol in this report was collected in an appropriate manner in accordance with generally accepted methods and practices. Any energized utilities/services, including electric, water and heat were assumed to be active. Materials associated with these items were determined to not be safely accessible and were not sampled. Suspect ACMs associated with these items should be assumed ACM until the systems can be de-energized and safely sampled. The survey did not include access or inspection of confined spaces or subsurface/underground areas including piping, conduits, building footings and soils (surficial or otherwise). **Safe access to the roof was not feasible.**

E. Findings

Nortol identified a total of **7** HA, of which **16** suspect ACM bulk samples were collected and submitted for laboratory analysis. The bulk samples collected as part of this survey were reported by the laboratory as “None Detected” or <1%. The client has always the alternative to request alternative analysis methods (i.e., TEM or Point counting) to get a more precise result. Furthermore, no additional suspect material was observed during the visual assessment that needed to be assumed as ACM. Table of asbestos summary findings is included as **Attachment 2**.

Attachment 3 includes Representative Pictures\Photograph Log, while the laboratory results, and field chain of custody are included as **Attachment 4**. Laboratory Certificates are included in the **Attachment 5**. A basic diagram with the approximated sampling locations is included as **Attachment 6**. Certification of Non-Presence of Asbestos (PGC-009) is included as **Attachment 7**.



III. CONCLUSION

ACM survey was conducted for the project identified with the header project ID. Nortol identified SACMs and bulk sample(s) were collected and submitted for laboratory analysis. Findings are described in Section II part E. Table of asbestos summary is also included as **Attachment 2**.

Attachment 3 includes Representative Pictures\Photograph Log, while the laboratory results, and field chain of custody are included as **Attachment 4**. Laboratory Certificates are included in the **Attachment 5**. A basic diagram with the approximated sampling locations is included as **Attachment 6**. Certification of Non-Presence of Asbestos (PGC-009) is included as **Attachment 7**.

Any conditions or materials that could not be visually identified or was out-of-the SOW, were not inspected and may differ from those conditions or materials noted. It was not within the scope of the activity to remove surface materials to investigate portions of the structure or materials that may lay beneath the surface. Nortol's selection of sample locations and frequency of sampling was based on Nortol's observations and the assumption that like materials in the same area are homogeneous in content.

The report is designed to aid the building owner, architect, construction manager, general contractors, and potential asbestos or lead abatement contractors in locating ACM. Under no circumstances is the report to be utilized as a solely bidding document or as a project specification document.



Attachment 1
Inspector's Credential



TARJETA DE REGISTRO
PARA LA REMOCION DE ASBESTO

Esta tarjeta autoriza a:

Roberto E. Rodríguez Rodríguez

Inspector

A trabajar en la remoción de asbesto en
Puerto Rico. Esta persona **NO** es un
empleado del DRNA.



Firma Autorizada - Departamento
Recursos Naturales y Ambientales



ASB-0322-0095-SI

Número de Registro

21-Feb-2023

Fecha de vencimiento

PR DRNA Asbestos Inspector
Accreditation



ASB-0422-0136-SI

Número de Registro

24-mar-2023

Fecha de vencimiento

TARJETA DE REGISTRO
PARA LA REMOCION DE ASBESTO

Esta tarjeta autoriza a:

Angelee Cordon Ortiz

Inspector

A trabajar en la remoción de asbesto en
Puerto Rico. Esta persona **NO** es un
empleado del DRNA.

Firma Autorizada - Departamento
Recursos Naturales y Ambientales.

PR Asbestos Inspector Accreditation

Attachment 2
Table Asbestos Summary Findings



Table Asbestos Summary Findings

Bulk Sample Results for Asbestos
 Project: **COMMERCIAL STRUCTURE: PLAZA DEL MERCADO**
 Address: PR-2, Quebradillas Puerto Rico 00678



Project ID	Municipality	HA No.	Material Type	Material Primary Color	Material Texture	Asbestos Results	Floor Designation	Material Location	Location	Condition	Quantity *	Units	Sample ID	Sample Location	Sample Content	Asbestos Type	Friable	Sample Date	Consultant	Method	Lab
Plaza Del Mercado	Quebradillas	1	Ceiling Tile	White	Rough	NAD (Non Asbestos Detected)	First Floor	Room 1 / Room 4 / Room 5	Ceiling	Damaged	130	SF	CSPM--HA1-RRRR-01	Room 1	NAD (Non Asbestos Detected)	NAD (Non Asbestos Detected)	No	6/23/22	NORTOL	PLM	Eurofins EMLab P&K
Plaza Del Mercado	Quebradillas	1	Ceiling Tile	White	Rough	NAD (Non Asbestos Detected)	First Floor	Room 1 / Room 4 / Room 5	Ceiling	Damaged		SF	CSPM--HA1-RRRR-02	Room 5	NAD (Non Asbestos Detected)	NAD (Non Asbestos Detected)	No	6/23/22	NORTOL	PLM	Eurofins EMLab P&K
Plaza Del Mercado	Quebradillas	2	Ceiling Tile	White	Rough	NAD (Non Asbestos Detected)	First Floor	Room 6	Ceiling	Good	80	SF	CSPM--HA2-RRRR-03	Room 6	NAD (Non Asbestos Detected)	NAD (Non Asbestos Detected)	No	6/23/22	NORTOL	PLM	Eurofins EMLab P&K
Plaza Del Mercado	Quebradillas	2	Ceiling Tile	White	Rough	NAD (Non Asbestos Detected)	First Floor	Room 6	Ceiling	Good		SF	CSPM--HA2-RRRR-04	Room 6	NAD (Non Asbestos Detected)	NAD (Non Asbestos Detected)	No	6/23/22	NORTOL	PLM	Eurofins EMLab P&K
Plaza Del Mercado	Quebradillas	3	Window Caulking	Black	Smooth	NAD (Non Asbestos Detected)	First Floor	Room 1 / Room 7	Window	Good	70	LF	CSPM--HA3-RRRR-05	Room 7	NAD (Non Asbestos Detected)	NAD (Non Asbestos Detected)	No	6/23/22	NORTOL	PLM	Eurofins EMLab P&K
Plaza Del Mercado	Quebradillas	3	Window Caulking	Black	Smooth	NAD (Non Asbestos Detected)	First Floor	Room 1 / Room 7	Window	Good		LF	CSPM--HA3-RRRR-06	Room 1	NAD (Non Asbestos Detected)	NAD (Non Asbestos Detected)	No	6/23/22	NORTOL	PLM	Eurofins EMLab P&K
Plaza Del Mercado	Quebradillas	3	Window Caulking	Black	Smooth	NAD (Non Asbestos Detected)	First Floor	Room 1 / Room 7	Window	Good		LF	CSPM--HA3-RRRR-07	Room 1	NAD (Non Asbestos Detected)	NAD (Non Asbestos Detected)	No	6/23/22	NORTOL	PLM	Eurofins EMLab P&K
Plaza Del Mercado	Quebradillas	4	Window Caulking	White	Smooth	NAD (Non Asbestos Detected)	First Floor	Room 8 / Room 5	Window	Good	44	LF	CSPM--HA4-RRRR-08	Room 8	NAD (Non Asbestos Detected)	NAD (Non Asbestos Detected)	No	6/23/22	NORTOL	PLM	Eurofins EMLab P&K
Plaza Del Mercado	Quebradillas	4	Window Caulking	White	Smooth	NAD (Non Asbestos Detected)	First Floor	Room 8 / Room 5	Window	Good		LF	CSPM--HA4-RRRR-09	Room 8	NAD (Non Asbestos Detected)	NAD (Non Asbestos Detected)	No	6/23/22	NORTOL	PLM	Eurofins EMLab P&K
Plaza Del Mercado	Quebradillas	4	Window Caulking	White	Smooth	NAD (Non Asbestos Detected)	First Floor	Room 8 / Room 5	Window	Good		LF	CSPM--HA4-RRRR-10	Room 5	NAD (Non Asbestos Detected)	NAD (Non Asbestos Detected)	No	6/23/22	NORTOL	PLM	Eurofins EMLab P&K
Plaza Del Mercado	Quebradillas	5	Roof Membrane	Brown	Rough	NAD (Non Asbestos Detected)	First Floor	Room 1 / Room 7 / Room 8 / Room 9	Roof	Damaged	450	SF	CSPM--HA5-RRRR-11	Room 9	NAD (Non Asbestos Detected)	NAD (Non Asbestos Detected)	No	6/23/22	NORTOL	PLM	Eurofins EMLab P&K
Plaza Del Mercado	Quebradillas	5	Roof Membrane	Brown	Rough	NAD (Non Asbestos Detected)	First Floor	Room 1 / Room 7 / Room 8 / Room 9	Roof	Damaged		SF	CSPM--HA5-RRRR-12	Room 8	NAD (Non Asbestos Detected)	NAD (Non Asbestos Detected)	No	6/23/22	NORTOL	PLM	Eurofins EMLab P&K
Plaza Del Mercado	Quebradillas	6	Roof Membrane	Red	Rough	NAD (Non Asbestos Detected)	First Floor	Room 2 / Room 10 / Room 11 / Room 12 / Room 13 / Room 14 / Room 15	Roof	Damaged	557	SF	CSPM--HA6-RRRR-13	Room 10	NAD (Non Asbestos Detected)	NAD (Non Asbestos Detected)	No	6/23/22	NORTOL	PLM	Eurofins EMLab P&K
Plaza Del Mercado	Quebradillas	6	Roof Membrane	Red	Rough	NAD (Non Asbestos Detected)	First Floor	Room 2 / Room 10 / Room 11 / Room 12 / Room 13 / Room 14 / Room 16	Roof	Damaged		SF	CSPM--HA6-RRRR-14	Room 2	NAD (Non Asbestos Detected)	NAD (Non Asbestos Detected)	No	6/23/22	NORTOL	PLM	Eurofins EMLab P&K
Plaza Del Mercado	Quebradillas	7	Roof Membrane	Green	Rough	NAD (Non Asbestos Detected)	First Floor	Room 3 / Room 6	Roof	Damaged	200	SF	CSPM--HA7-RRRR-15	Room 3	NAD (Non Asbestos Detected)	NAD (Non Asbestos Detected)	No	6/23/22	NORTOL	PLM	Eurofins EMLab P&K

Table Asbestos Summary Findings

Bulk Sample Results for Asbestos
 Project: **COMMERCIAL STRUCTURE: PLAZA DEL MERCADO**
 Address: PR-2, Quebradillas Puerto Rico 00678



Project ID	Municipality	HA No.	Material Type	Material Primary Color	Material Texture	Asbestos Results	Floor Designation	Material Location	Location	Condition	Quantity *	Units	Sample ID	Sample Location	Sample Content	Asbestos Type	Friable	Sample Date	Consultant	Method	Lab
Plaza Del Mercado	Quebradillas	7	Roof Membrane	Green	Rough	NAD (Non Asbestos Detected)	First Floor	Room 3 / Room 6	Roof	Damaged		SF	CSPM--HA7-RRRR-16	Room 6	NAD (Non Asbestos Detected)	NAD (Non Asbestos Detected)	No	6/23/22	NORTOL	PLM	Eurofins EMLab P&K

* abatement contractors are responsible to confirm this estimate on site.

Attachment 3
Representative Pictures\Photograph Log





Roberto Rodriguez / Angelee Cordon
Nortol. Environmental & Occupational Safety, Inc.

COMMERCIAL STRUCTURE PLAZA DEL MERCADO, QUEBRADILLAS - SACM SURVEY PHOTO LOG

Year of construction not available at the moment of the inspection.

Thursday, June 23, 2022

Prepared For Ingenieros del Oeste CSP

PR-2, Quebradillas, PR 00678



FRONT VIEW:

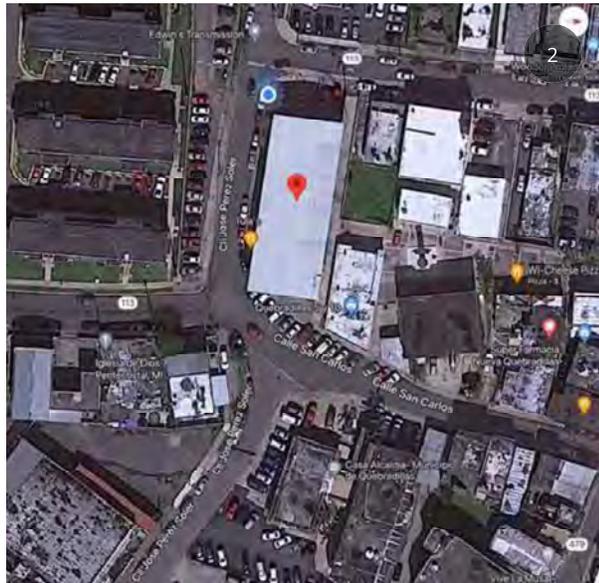
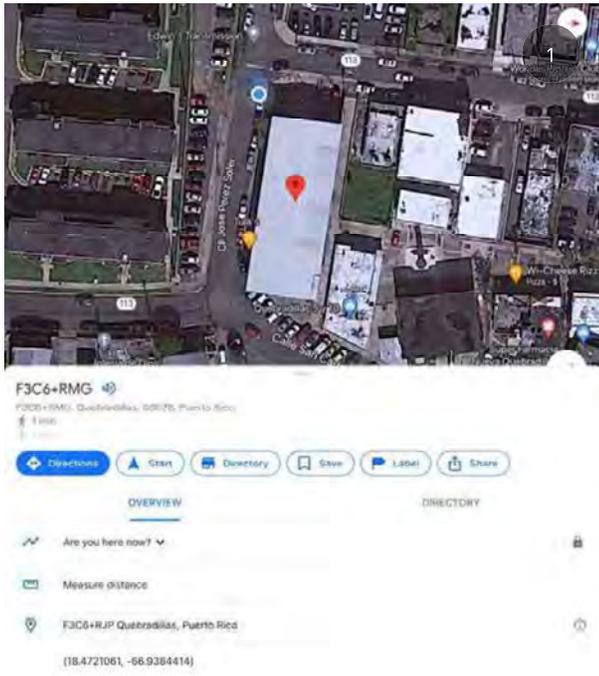
Section Completed: Yes

(18.4721061, -66.9384414)

LOCATION:

Section Completed: Yes

(18.4721061, -66.9384414)



EXTERIOR GENERAL VIEW SIDE A:

Section Completed: Yes



EXTERIOR GENERAL VIEW SIDE B:

Section Completed: Yes



EXTERIOR GENERAL VIEW SIDE C:

Section Completed: Yes



EXTERIOR GENERAL VIEW SIDE D:

Section Completed: Yes



EXTERIOR GENERAL VIEWS:

Section Completed: Yes



EXTERIOR GENERAL VIEWS: ROOF

Section Completed: Yes

Roof was inaccessible due to safety concerns and necessary equipment was not present.



INTERIOR GENERAL VIEWS:

Section Completed: Yes



SACM VISIBLE? ROOM 1, 4 & 5

Section Completed: Yes

2 SACM samples were taken from white ceiling tiles. (Qty. 130 S.F. Approx.) **ASBESTOS WAS NOT DETECTED IN THE ANALYSES**

526-CSPM Quebradillas-HA1-RRR-01 & 02



SACM VISIBLE? ROOM 6

Section Completed: Yes

2 SACM samples were taken from white ceiling tiles. (Qty. 80 S.F. Approx.)

ASBESTOS WAS NOT DETECTED IN THE ANALYSES

526-CSPM Quebradillas-HA2-RRR-03 & 04



SACM VISIBLE? ROOM 1 & 7

Section Completed: Yes

3 SACM samples were taken from black window caulking. (Qty. 70 L.F.

Approx.) **ASBESTOS WAS NOT DETECTED IN THE ANALYSES**

526-CSPM Quebradillas-HA3-RRR-05, 06 & 07



SACM VISIBLE? ROOM 5 & 8

Section Completed: Yes

3 SACM samples were taken from white window caulking. (Qty. 44 L.F.

Approx.) **ASBESTOS WAS NOT DETECTED IN THE ANALYSES**

526-CSPM Quebradillas-HA4-RRR-08, 09 & 10



SACM VISIBLE? ROOM 1, 7, 8 & 9

Section Completed: Yes

2 SACM samples were taken from brown roof rubber membrane. (Qty. 450 S.F. Approx.) **ASBESTOS WAS NOT DETECTED IN THE ANALYSES**

526-CSPM Quebradillas-HA5-RRR-11 & 12



SACM VISIBLE? ROOM 2, 10, 11, 12, 13, 14 & 15

Section Completed: Yes

2 SACM samples were taken from red roof rubber membrane. (Qty. 557 S.F. Approx.) **ASBESTOS WAS NOT DETECTED IN THE ANALYSES**

526-CSPM Quebradillas-HA6-RRR-13 & 14



SACM VISIBLE? ROOM 3 & 6

Section Completed: Yes

2 SACM samples were taken from green roof rubber membrane. (Qty. 200 S.F. Approx.) **ASBESTOS WAS NOT DETECTED IN THE ANALYSES**

526-CSPM Quebradillas-HA7-RRR-15 & 16



Attachment 4
Asbestos Laboratory Report and Chain of Custody



Report for:

Norma Torres
Nortol Env & Occupational Safety Inc
PO BOX 366457
San Juan, PR 00936-6457

Regarding: Project: 526 - Commerical Structure Plaza Del Mercado
EML ID: 2962150

Approved by:



Approved Signatory
Balu Krishnan

Dates of Analysis:
Asbestos PLM: 06-28-2022

Service SOPs: Asbestos PLM (EPA 40CFR App E to Sub E of Part 763 & EPA METHOD 600/R-93-116, SOP EM-AS-S-1267)
NVLAP Lab Code 200738-0

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. The results relate only to the samples as received and tested. The results include an inherent uncertainty of measurement associated with estimating percentages by polarized light microscopy. Measurement uncertainty data for sample results with >1% asbestos concentration can be provided when requested.

Eurofins EMLab P&K ("the Company") shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

Client: Nortol Env & Occupational Safety Inc
C/O: Norma Torres
Re: 526 - Commerical Structure Plaza Del MercadoDate of Sampling: 06-23-2022
Date of Receipt: 06-27-2022
Date of Report: 06-28-2022**ASBESTOS PLM REPORT****Total Samples Submitted:** 16**Total Samples Analyzed:** 16**Total Samples with Layer Asbestos Content > 1%:** 0**Location: C.S.P.M. 01, White Ceiling Tile**

Lab ID-Version#: 14243922-1

Sample Layers	Asbestos Content
Yellow Insulation	ND
White Coating	ND
Composite Non-Asbestos Content:	90% Mineral Wool
Sample Composite Homogeneity:	Good

Location: C.S.P.M. 02, White Ceiling Tile

Lab ID-Version#: 14243923-1

Sample Layers	Asbestos Content
Yellow Insulation	ND
White Coating	ND
Composite Non-Asbestos Content:	90% Mineral Wool
Sample Composite Homogeneity:	Good

Location: C.S.P.M. 03, White Ceiling Tile

Lab ID-Version#: 14243924-1

Sample Layers	Asbestos Content
Off-White Ceiling Tile with White Surface	ND
Composite Non-Asbestos Content:	25% Mineral Wool 20% Cellulose
Sample Composite Homogeneity:	Good

Location: C.S.P.M. 04, White Ceiling Tile

Lab ID-Version#: 14243925-1

Sample Layers	Asbestos Content
Off-White Ceiling Tile with White Surface	ND
Composite Non-Asbestos Content:	25% Mineral Wool 20% Cellulose
Sample Composite Homogeneity:	Good

The test report shall not be reproduced except in full, without written approval of the laboratory. The report must not be used by the client to claim product certification, approval, or endorsement by any agency of the federal government. Eurofins EMLab P&K reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified.

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.

‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Client: Nortol Env & Occupational Safety Inc
C/O: Norma Torres
Re: 526 - Commerical Structure Plaza Del Mercado

Date of Sampling: 06-23-2022
Date of Receipt: 06-27-2022
Date of Report: 06-28-2022

ASBESTOS PLM REPORT

Location: C.S.P.M. 05, Black Windows Caulking

Lab ID-Version‡: 14243926-1

Sample Layers	Asbestos Content
Black Caulk	ND
Sample Composite Homogeneity: Good	

Location: C.S.P.M. 06, Black Windows Caulking

Lab ID-Version‡: 14243927-1

Sample Layers	Asbestos Content
Black Caulk	ND
Sample Composite Homogeneity: Good	

Location: C.S.P.M. 07, Black Windows Caulking

Lab ID-Version‡: 14243928-1

Sample Layers	Asbestos Content
Black Caulk	ND
Sample Composite Homogeneity: Good	

Location: C.S.P.M. 08, White Window Caulking

Lab ID-Version‡: 14243929-1

Sample Layers	Asbestos Content
White Caulk	ND
Sample Composite Homogeneity: Good	

The test report shall not be reproduced except in full, without written approval of the laboratory. The report must not be used by the client to claim product certification, approval, or endorsement by any agency of the federal government. Eurofins EMLab P&K reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified.

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.

‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Client: Nortol Env & Occupational Safety Inc
C/O: Norma Torres
Re: 526 - Commerical Structure Plaza Del Mercado

Date of Sampling: 06-23-2022
Date of Receipt: 06-27-2022
Date of Report: 06-28-2022

ASBESTOS PLM REPORT

Location: C.S.P.M. 09, White Window Caulking

Lab ID-Version‡: 14243930-1

Sample Layers	Asbestos Content
White Caulk	ND
Sample Composite Homogeneity:	Good

Location: C.S.P.M. 10, White Window Caulking

Lab ID-Version‡: 14243931-1

Sample Layers	Asbestos Content
White Caulk	ND
Sample Composite Homogeneity:	Good

Location: C.S.P.M. 11, Brown Roof Rubber

Lab ID-Version‡: 14243932-1

Sample Layers	Asbestos Content
Black Roofing Shingle wiht Brown Pebbles	ND
Composite Non-Asbestos Content:	10% Cellulose
Sample Composite Homogeneity:	Good

Location: C.S.P.M. 12, Brown Roof Rubber

Lab ID-Version‡: 14243933-1

Sample Layers	Asbestos Content
Black Roofing Shingle wiht Brown Pebbles	ND
Composite Non-Asbestos Content:	10% Cellulose
Sample Composite Homogeneity:	Good

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Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.

‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Client: Nortol Env & Occupational Safety Inc
 C/O: Norma Torres
 Re: 526 - Commerical Structure Plaza Del Mercado

Date of Sampling: 06-23-2022
 Date of Receipt: 06-27-2022
 Date of Report: 06-28-2022

ASBESTOS PLM REPORT**Location: C.S.P.M. 13, Red Roof Rubber**

Lab ID-Version‡: 14243934-1

Sample Layers	Asbestos Content
Black Roofing Shingle with Red Pebbles	ND
Composite Non-Asbestos Content:	5% Glass Fibers
Sample Composite Homogeneity:	Good

Location: C.S.P.M. 14, Red Roof Rubber

Lab ID-Version‡: 14243935-1

Sample Layers	Asbestos Content
Black Roofing Shingle with Red Pebbles	ND
Composite Non-Asbestos Content:	5% Glass Fibers
Sample Composite Homogeneity:	Good

Location: C.S.P.M. 15, Green Roof Rubber

Lab ID-Version‡: 14243936-1

Sample Layers	Asbestos Content
Black/Yellow Roofing Shingle with Green Pebbles	ND
Black Tar	ND
Composite Non-Asbestos Content:	5% Glass Fibers 3% Polyethylene
Sample Composite Homogeneity:	Good

Location: C.S.P.M. 16, Green Roof Rubber

Lab ID-Version‡: 14243937-1

Sample Layers	Asbestos Content
Black/Yellow Roofing Shingle with Green Pebbles	ND
Black Tar	ND
Composite Non-Asbestos Content:	5% Glass Fibers 3% Polyethylene
Sample Composite Homogeneity:	Good

The test report shall not be reproduced except in full, without written approval of the laboratory. The report must not be used by the client to claim product certification, approval, or endorsement by any agency of the federal government. Eurofins EMLab P&K reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified.

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.

‡ A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

New Jersey: 3000 Lincoln Drive East, Suite A, Marlton, NJ 08053 * (866) 871-1934
Phoenix, AZ: 1501 West Knudsen drive, Phoenix, AZ 85027 * (800) 851-4802
SSF, CA: 8000 Shoreline Court, Suite 205, South San Francisco, CA 94080 * (866) 838-6653

Weather	Fog	Rain	Snow	Wind	Clear
None	<input type="checkbox"/>				
Light	<input type="checkbox"/>				
Moderate	<input type="checkbox"/>				
Heavy	<input type="checkbox"/>				

REQUESTED SER
(Use checkboxes)



002962150

Non-Culturable Culturable

Spore Trap Tape Swab Bulk BioCassette™, Anderson, SAS, Water, Bulk, Dust, Soil, Contact Plates

CONTACT INFORMATION		
Company:	Nortol Env. & Occup. Sfty, Inc.	Address: PO Box 366457, San Juan, PR 00936-6457
Contact:	Norma Torres	Special Instructions:
Phone:	787-420-0220	

PROJECT INFORMATION		TURN AROUND TIME CODES (TAT)	
Project ID:	S26 - Commercial Structure plaza del Mercado	STD - Standard (DEFAULT)	Rushes received after 2 pm or on weekends, will be considered received the next business day. Please alert us in advance of weekend analysis needs.
Project Description:		ND - Next Business Day	
Project Zip Code:	Quebradillas, P.R.	SD - Same Business Day Rush	
PD Number:		WH - Weekend / Holiday	
Sampling Date & Time:	23 JUN / 22 10:00 AM		
Sampled By:	R. Rodriguez		

Sample ID	Description	Sample Type (Below)	TAT (Above)	Total Volume / Area (as applicable)	Notes (Time of day, Temp, RH, etc.)
C.S.P.M. 01	White Ceiling Tile	B	STD	N/A	H A 1
C.S.P.M. 02	White Ceiling Tile	B	STD	N/A	H A 1
C.S.P.M. 03	White Ceiling Tile	B	STD	N/A	H A 2
C.S.P.M. 04	White Ceiling Tile	B	STD	N/A	H A 2
C.S.P.M. 05	Black windows caulking	B	STD	N/A	H A 3
C.S.P.M. 06	Black windows caulking	B	STD	N/A	H A 3
C.S.P.M. 07	Black windows caulking	B	STD	N/A	H A 3
C.S.P.M. 08	White windows caulking	B	STD	N/A	H A 4
C.S.P.M. 09	White windows caulking	B	STD	N/A	H A 4
C.S.P.M. 10	White windows caulking	B	STD	N/A	H A 4
C.S.P.M. 11	Brown Roof Rubber	B	STD	N/A	H A 5

Analysis Method	Requested	Completed
Pungi - Spore Trap Analysis	<input type="checkbox"/>	<input type="checkbox"/>
Spore Trap Analysis - Other practices	<input type="checkbox"/>	<input type="checkbox"/>
Direct Microscopic Exam (Qualitative)	<input type="checkbox"/>	<input type="checkbox"/>
Quantitative Spore Count Direct Exam	<input type="checkbox"/>	<input type="checkbox"/>
1-Media Surface Fungi (Genus ID + Asp. spp.)	<input type="checkbox"/>	<input type="checkbox"/>
2-Media Surface Fungi (Genus ID + Asp. spp.)	<input type="checkbox"/>	<input type="checkbox"/>
3-Media Surface Fungi (Genus ID + Asp. spp.)	<input type="checkbox"/>	<input type="checkbox"/>
Culturable Air Fungi (Genus ID + Asp. spp.)	<input type="checkbox"/>	<input type="checkbox"/>
Gram Stain & Counts (Culturable Air & Surface Bacteria)	<input type="checkbox"/>	<input type="checkbox"/>
Legionella culture	<input type="checkbox"/>	<input type="checkbox"/>
Total Coliforms, E. coli (Presence/Absence)	<input type="checkbox"/>	<input type="checkbox"/>
Membrane Filtration (specify organism)	<input type="checkbox"/>	<input type="checkbox"/>
MPN Bacteria (specify organism)	<input type="checkbox"/>	<input type="checkbox"/>
Countoff Tray - Swabage Screen	<input type="checkbox"/>	<input type="checkbox"/>
Asbestos Analysis - PCM Airborne Fiber Count (NIOSH 7400)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Asbestos Analysis - PLM (EPA method 8461-03-128)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PCR (specify test)	<input type="checkbox"/>	<input type="checkbox"/>

SAMPLE TYPE CODES	RELINQUISHED BY	DATE & TIME	RECEIVED BY	DATE & TIME	
BC - BioCassette™ A15 - Anderson SAS - Surface Air Sampler CP - Contact Plate	ST - Spore Trap Zefon, Allergenco, Burkard ... P - Potable Water NP - Non-Potable Water	T - Tape SW - Swab B - Bulk O - Other	D - Dust SO - Soil	[Signature] 23 JUN / 22 10:00 AM	AC 6/27/22 9:30

Attachment 5
Laboratory Certificates



United States Department of Commerce
National Institute of Standards and Technology



Certificate of Accreditation to ISO/IEC 17025:2017

NVLAP LAB CODE: 200738-0

Eurofins EMLab P&K

Fort Lauderdale, FL

*is accredited by the National Voluntary Laboratory Accreditation Program for specific services,
listed on the Scope of Accreditation, for:*

Asbestos Fiber Analysis

*This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017.
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality
management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).*

2022-01-01 through 2022-12-31

Effective Dates



A handwritten signature in blue ink, reading 'Dana S. Gorman'. The signature is written in a cursive style.

For the National Voluntary Laboratory Accreditation Program

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

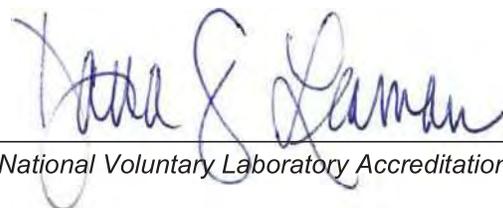
Eurofins EMLab P&K
6301 NW 5th Way, Suite 1410
Fort Lauderdale, FL 33309
Ms. Claudia Palermo
Phone: 856-334-1001
Email: claudia.palermo@eurofinset.com
<http://www.emlab.com>

ASBESTOS FIBER ANALYSIS

NVLAP LAB CODE 200738-0

Bulk Asbestos Analysis

<u>Code</u>	<u>Description</u>
18/A01	EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples
18/A03	EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials



For the National Voluntary Laboratory Accreditation Program

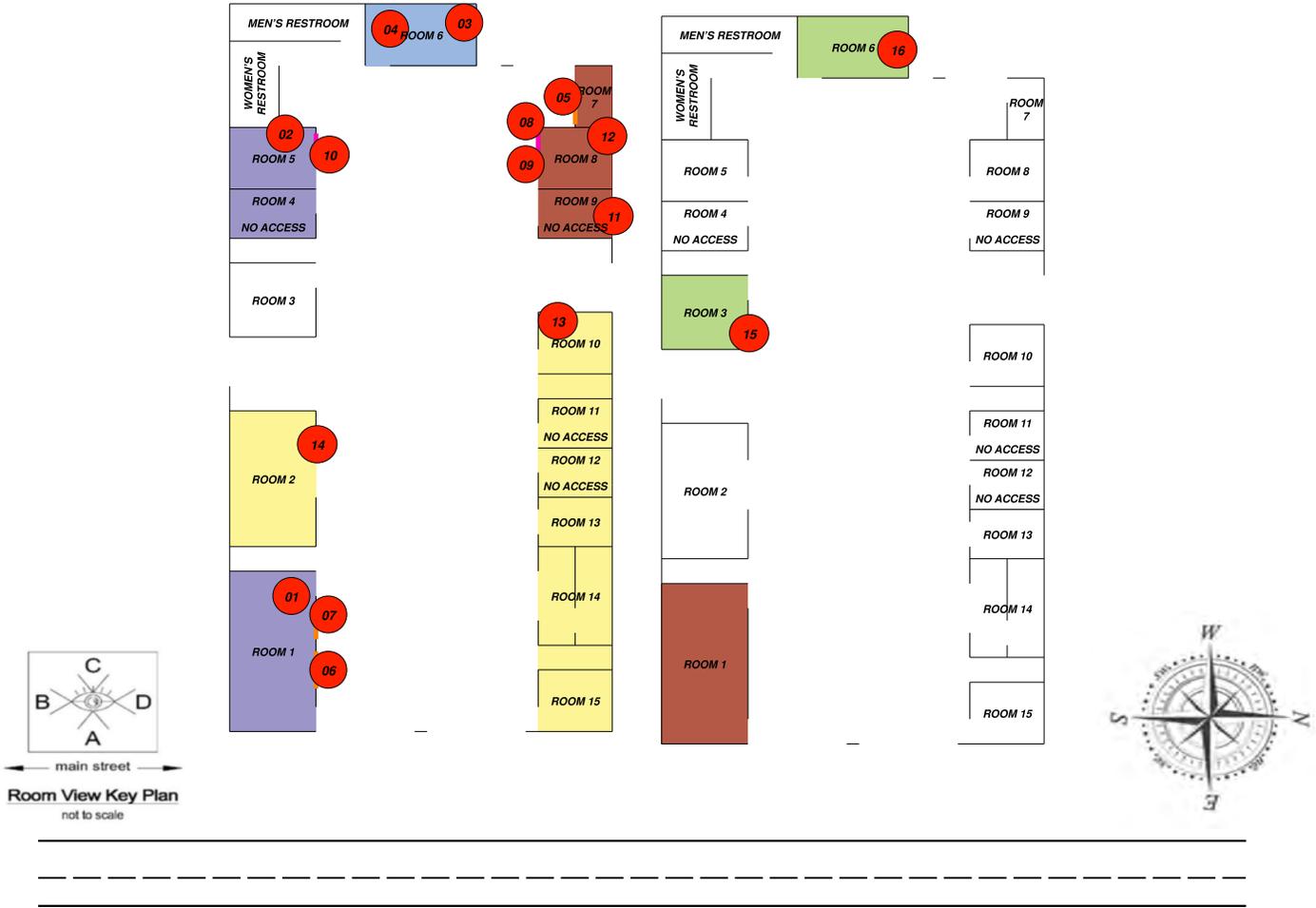
Attachment 6
Diagram
Bulk Sample's Approximated Location



Commercial Structure Plaza del Mercado, Quebradillas

SACM DIAGRAM
ASBESTOS WAS NOT DETECTED IN THE ANALYSES
 Safe access to the roof was not feasible.

- → AREA WHERE SAMPLES WERE TAKEN
- → HOMOGENEOUS AREA 1 - WHITE CEILING TILES
- → HOMOGENEOUS AREA 2 - WHITE CEILING TILES
- → HOMOGENEOUS AREA 3 - BLACK WINDOW CAULKING
- → HOMOGENEOUS AREA 4 - WHITE WINDOW CAULKING
- → HOMOGENEOUS AREA 5 - BROWN ROOF RUBBER MEMBRANE
- → HOMOGENEOUS AREA 6 - RED ROOF RUBBER MEMBRANE
- → HOMOGENEOUS AREA 7 - GREEN ROOF RUBBER MEMBRANE



PR-2,

Quebradillas, PR 00678

Attachment 7
Certification Non-Presence of Asbestos (PGC-009)





**CERTIFICACION DE NO PRESENCIA DE ASBESTO
EN ESTRUCTURAS A DEMOLERSE**
(Deberá completarse en letra de molde o impresa)

NUM. PERMISO: _____

Yo, Roberto Rodríguez, mayor de edad, casado, y vecino de Juana Díaz, PR
(Nombre) (Estado Civil) (Municipio)

Dirección Postal PO Box 366457 San Juan, P.R. 00936-6457
(Pueblo) (Zip Code)

Teléfonos: Residencial (939) 775 - 7587 Oficina (787) 420 - 0220

Certifico que:

1. La estructura comercial Plaza del Mercado localizada en PR-2, Quebradillas P.R 00678, la cual será objeto de una demolición se encuentra libre de asbesto.
2. La información antes indicada es cierta y correcta.
3. Afirmo y reconozco las consecuencias de incluir y someter información falsa en este documento.
4. Para que así conste, firmo la presente certificación en Caguas de Puerto Rico, hoy día 30 de junio de 2022 (Municipio)

*excluye el techo ya que no hubo acceso seguro.


Firma y Sello del Profesional o
Firma del Inspector de Asbesto registrado por la JCA (Original)

Nota: Ingenieros o Arquitectos deberán someter evidencia de que se encuentra al día en el pago de sus cuotas de colegiación e Inspectores de Asbesto deberán someter evidencia de la tarjeta de registro provista por la JCA.



www.nortolpr.com | info@nortolpr.com | 787.420.0220
PO Box 366457, San Juan, PR 00936-6457

Exhibit 7H

LEAD BASED PAINT SURVEY

Environmental Assessment CDBG-DR
"Demolición y Construcción Plaza de Mercado", Quebradillas, PR
PR-CRP-000521



LEAD-BASED PAINT SURVEY

COMMERCIAL STRUCTURE: PLAZA DEL MERCADO

PR-2, Quebradillas, Puerto Rico 00678



Inspection Date: June 23, 2022

Prepared for: Ingenieros del Oeste CSP

Prepared by: Nortol Environmental & Occupational Safety, Inc.

Inspector:

Ramón Alejandro
Lead Inspector
LBP I.D. # LBPI-25221-274



NORTOL has performed this survey in a thorough and professional manner consistent with commonly accepted industry standards.

This document is intended only for the use of the individual or entity for which it was prepared and may contain information that is privileged, confidential and exempt from disclosure under applicable law. Any dissemination, distribution or copying of this document is strictly prohibited.

Table of Contents

Acronyms	3
Introduction	4
Lead Based Paint Survey Report	4
Lead Based Paint Findings	
Survey Protocol and Sampling Procedures	
LBP Background and Regulatory review	
Conclusion	7

Attachment 1 – Company Credentials

Attachment 2 – Inspector’s Credentials

Attachment 3 – Positive LBP XRF Tabulated Readings

Attachment 4 – LBP XRF Tabulated Readings

Attachment 5 – LBP Diagram

Attachment 6 – Representative Pictures\Photograph Log

Attachment 7 – XRF Performance Characteristic Sheet



Acronyms

A/C	=	Air Conditioning
CFR	=	Code of Federal Regulations
CPSC	=	Consumer Product Safety Commission
EPA	=	Environmental Protection Agency
Ft ²	=	square feet
HUD	=	Department of Housing and Urban Development
LBP	=	Lead-based Paint
LF	=	Linear Feet
mg/cm ²	=	milligrams per square centimeter
NESHAP'S	=	National Emission Standards for Hazardous Air Pollutants
NIOSH	=	National Institute for Occupational Safety and Health
OSHA	=	Occupational Safety and Health Administration
PRDOH	=	Puerto Rico Department of Housing
PRDNER	=	Puerto Rico Department of Natural and Environmental Resources
SOW	=	Scope of Work
XRF	=	X-Ray Fluorescent



I. INTRODUCTION

As part of the environmental due diligence, this survey is intended to assess the general presence, quantity, and location of LBP and lead-glazed ceramic components above allowable levels at commercial structure: Plaza del Mercado property located at PR-2, Quebradillas, PR 00678.

The LBP survey, conforming to Housing Urban Development (HUD) Guidelines for the Evaluation and Control of Lead Based Paint in Housing, was conducted on June 23, 2022, by Mr. Ramón Alejandro (Lead inspector number: LBPI-25221-274) from Nortol. Copy of Nortol's registration with the PRDNER as registered corporation is included in the **Attachment 1**. Inspector's credential is included in the **Attachment 2**. Nortol's survey areas and report are limited to the details provided in the Section II part D.

Based on the results of the survey, 227 XRF readings were performed using an XRF analyzer at the identified and accessible surfaces on the interior and exterior of the subject structure. LBP (lead-glazed ceramic floor or wall tiles and metal door/doorframe) was identified above the regulatory level of 1.0 mg/cm² at some areas of the project.

There are concrete/metal structural components. The floors are ceramic tiles or bare concrete. Ceramic tiles are also present on some walls.

II. LEAD BASED PAINT SURVEY REPORT

A. Lead Based Paint Findings:

LBP was found at some of the project accessed components (approximately 8,000 Ft² of lead-glazed ceramic floor tiles, 24 Ft² of lead-glazed ceramic wall tiles and one metal door/doorframe). Data from XRF analyzer testing is included in **Attachment 3 & 4** with positive readings marked in red or bold. **Attachment 5** includes the approximated location of identified LBP or lead-glazes at the subject structure. Representative Pictures\Photograph Log of identified LBP surfaces and/or lead-glazed ceramic components within the structure are provided in the **Attachment 6**. Safe access to the roof was not feasible.

B. Survey Protocol and Sampling Procedure:

The survey was conducted following the *HUD Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing (1997 Revision, Chapter 7)*. The technique used for assessing the painted components was the XRF instrument. The following guidelines were used to perform LBP testing:



1. Achieve inventory of painted surfaces
2. Select areas to be tested.
3. Perform XRF testing.
4. Review and evaluate the data.
5. Report findings

The XRF instrument was set at Standard Paint Mode showing reading “Positive” or “Negative” with a 95% confident reading. The result is reported in mg/cm². **Attachment 7** includes the XRF Performance Characteristic Sheet (PCS) of the analyzer.

The **letters A, B, C, and D** used in the survey refers to:

- A ⇒ Main entrance side orientation (to street)
- B ⇒ Left side orientation
- C ⇒ Rear side orientation
- D ⇒ Right side orientation

C. Lead Based Paint Background and Regulatory Review:

Overexposure to lead is one of the most common situations found in industry. It is also a major potential public health risk. Lead poisoning is the leading environmentally induced illness in children. At greatest risk are children under the age of six because they are undergoing rapid neurological and physical development. In general population, lead may be present at hazardous concentrations in food, water, and air. Sources include LBP, urban soil, and dust, and drinking water.

Lead is commonly added to industrial paints because of its characteristic to resist corrosion. Industries with particularly high potential exposures include construction work involving welding, cutting, brazing, blasting, etc., on lead paint surfaces; most smelter operations either as a trace contaminant or as a major product; secondary lead smelters where lead is recovered from batteries; radiator repair shops; and firing ranges. Oral ingestion may represent a major route of exposure in contaminated workplaces. Once in the blood, lead is distributed primarily among three routes - blood, soft tissue (kidney, bone marrow, liver, and brain) and mineralizing tissue (bones and teeth).

Hazard of lead in paint has been defined by the Department of Housing and Urban Development as 1.0 mg/cm² as measured by an XRF instrument, or Atomic Absorption Spectroscopy (AAS); or 0.5% by weight (or 5,000 ppm) as measured by AAS, or Inductive Coupled Plasma (ICP). The same level was adopted by EPA regulations published in 1992, under Title X.



Although OSHA regulations for occupational lead exposure have been in effect since 1971 for the construction and general industries, the agency recognized the need to provide better protection and revised the regulations for general industry in 1978. The 1978 lead standard, however, excluded the construction industry from coverage because of insufficient information regarding lead use in construction.

In 1990, NIOSH set a national goal to eliminate worker exposures resulting in blood lead concentrations greater than 25 micrograms per deciliter (25 µg/dl) of whole blood. Consequently, OSHA began developing a proposal for a comprehensive standard regulating occupational exposure to lead in construction. In October 1992, the Congress passed Section 1031 of Title X of the Housing and Community Development Act of 1992 (P. L. 102-550) requiring OSHA to issue an interim final lead standard for the construction industry, effective until OSHA issues a final standard. The interim final rule, published on May 4, 1993, amends the OSHA standards for occupational health and environmental controls in Subpart D of Title 29 CFR 1926 by adding a new section 1926.62, containing employee protection requirements for construction workers exposed to lead.

On July 1998, the PRDNER - former PR Environmental Quality Board regulations regarding to LBP was created to issue activity permits, accredit institutions, and certificate persons involved in LBP activities in Puerto Rico. Local regulations require all lead to be managed as a special waste. On August 2019 this regulation was replaced by the new *Reglamento para el Manejo Adecuado de Actividades de Pintura con Base de Plomo*. To obtain a demolition permit in Puerto Rico is necessary to includes a certification (OGP-PGC-010 or equivalent) stating that there is no LBP in the project.

D. Survey Areas – Extent of Survey Coverage:

The survey included a detailed structure inspection providing a general sense of the overall location, type, quantity, and condition of LBP and lead-glazed ceramic components. The LBP survey was performed to ready accessible components and surfaces. If any suspect coated surface or ceramic components that could contain lead are encountered underneath current installed tiles or other construction material during demolition and/or renovation activities which differ from materials tested during the LBP survey, these should be assumed to be Lead containing until testing/analysis confirmed otherwise. The survey was unobtrusive as samples were not taken where doing so would have resulted in objectionable damage to surfaces. Therefore, the survey did not include destructive, intrusive and/or exploratory testing. Safe access to the roof was not feasible.



Areas Not Included in Survey and Service Constraints: All professional opinions presented in this report are based on information made available either by review of data provided by others or data gathered by Nortol's personnel. Nortol affirms that data gathered and presented by Nortol in this report was collected in an appropriate manner in accordance with generally accepted methods and practices. Any energized utilities/services, including electric, water and heat were assumed to be active. Materials associated with these items were determined to not be safely accessible and were not sampled. The survey did not include access or inspection of confined spaces or subsurface/underground areas including piping, conduits, building footings and soils (surficial or otherwise). **Safe access to the roof was not feasible.**

III. CONCLUSION

LBP survey was conducted for the project identified with the header project ID. LBP or lead-glaze was identified above the regulatory level of 1.0 mg/cm² at selective areas of the subject structure.

Data from XRF analyzer testing is included in the **Attachment 3 & 4** with positive readings marked in red or bold. **Attachment 5** includes the approximated location of identified LBP or lead-glazes at the subject structure. Representative Pictures\Photograph Log of identified LBP surfaces and/or lead-glazed ceramic components within the structure are provided in the **Attachment 6**.

Any conditions or materials that could not be visually identified or was out-of-the SOW, was not inspected and may differ from those conditions or materials noted. It was not within the scope of the activity to remove surface materials to investigate portions of the structure or materials that may lay beneath the surface. Nortol's selection of sample locations and frequency of sampling was based on Nortol's observations and the assumption that like materials in the same area are homogeneous in content.

The report is designed to aid the building owner, architect, construction manager, general contractors, and potential lead abatement contractors in locating LBP or lead-glaze. Under no circumstances is the report to be utilized as a solely bidding document or as a project specification document.



Attachment 1
Company Credentials





GOBIERNO DE PUERTO RICO

Departamento de Recursos Naturales y Ambientales

Este certificado es otorgado a:

Nortol Environmental Occupational Safety, Inc.

Por haber cumplido con los requisitos establecidos en el Capítulo VI, Regla 127 del Reglamento para el Manejo Adecuado de Actividades de Pintura con Base de Plomo. Se le otorga esta certificación como **Firma** para llevar a cabo actividades relacionadas a Mitigación de Pintura con base de plomo en la jurisdicción de Puerto Rico.

Número de Certificado

LBPF-03222-009

Fecha de emisión: Marzo 5, 2022

Fecha de Expiración: Marzo 4, 2023



Jose Roque Julia
Jefe
División Desperdicios Tóxicos



NAT-F121771-2

Attachment 2
Inspector's Credentials



CERTIFICACIÓN PLOMO PUERTO RICO



Esta tarjeta autoriza a:

Ramón Alejandro Andaluz

Para realizar actividades relacionadas a
Mitigación de Pintura con Base de Plomo

Disciplina: **Inspector**

Fecha de Expiración: Septiembre 23, 2022

Certificación #:
LBPI -25221- 274



Firma Autorizada
Departamento de Recursos Naturales y
Ambientales

Ramon E. Alejandro Andaluz

Puerto Rico

Lead-based Paint Inspector and Company Accreditations

Attachment 3
Positive LBP XRF Tabulated Readings



Commercial Structure Plaza del Mercado Quebradillas P.R

Company		Heuresis Corp.															
Model	PB00i																
Type	XRF Lead Paint Analyzer																
Serial Num.	3008																
App Version	PB00i-4.1-11																
Job Id	Reading #	Concentration	Units	Result	Level	Date	Time	Inspector	Job	Room	Structure	Component	Substrate	Wall	Color	Condition	Approx. Qty.
Commercial Structure Plaza del Mercado Quebradillas	11	1.1	mg/cm2	Positive	1	6/23/2022	9:27:47	R.Alejandro	526	Interior	Room 1	Floor	Ceramic	-	Brown	Deteriorated	110 sf
Commercial Structure Plaza del Mercado Quebradillas	21	1	mg/cm2	Positive	1	6/23/2022	9:33:05	R.Alejandro	526	Interior	Room 5	Floor	Ceramic	-	Brown	Deteriorated	130 sf
Commercial Structure Plaza del Mercado Quebradillas	67	5.5	mg/cm2	Positive	1	6/23/2022	10:04:05	R.Alejandro	526	Interior	Room 2	Floor	Ceramic	-	Brown	Deteriorated	498 sf
Commercial Structure Plaza del Mercado Quebradillas	84	1.5	mg/cm2	Positive	1	6/23/2022	10:26:18	R.Alejandro	526	Interior	Room 7	Floor	Ceramic	-	Brown	Deteriorated	90 sf
Commercial Structure Plaza del Mercado Quebradillas	87	1	mg/cm2	Positive	1	6/23/2022	10:30:45	R.Alejandro	526	Interior	Room 7	Wall	Ceramic	B	Brown	Deteriorated	24 sf
Commercial Structure Plaza del Mercado Quebradillas	113	1.7	mg/cm2	Positive	1	6/23/2022	10:50:59	R.Alejandro	526	Interior	Room 12	Door Frame	Metal	-	Gray	Deteriorated	1 Unit
Commercial Structure Plaza del Mercado Quebradillas	114	1.5	mg/cm2	Positive	1	6/23/2022	10:53:15	R.Alejandro	526	Interior	Room 12	Door	Metal	-	Gray	Deteriorated	1 Unit
Commercial Structure Plaza del Mercado Quebradillas	129	1.1	mg/cm2	Positive	1	6/23/2022	11:11:19	R.Alejandro	526	Interior	Room 14	Floor	Ceramic	-	Brown	Deteriorated	120 sf
Commercial Structure Plaza del Mercado Quebradillas	147	3.7	mg/cm2	Positive	1	6/23/2022	11:44:35	R.Alejandro	526	Exterior	Communal Hallway	Floor	Ceramic	-	Gray	Deteriorated	7,000 sf
Commercial Structure Plaza del Mercado Quebradillas	148	3.4	mg/cm2	Positive	1	6/23/2022	11:45:00	R.Alejandro	526	Exterior	Communal Hallway	Floor	Ceramic	-	Gray	Deteriorated	
Commercial Structure Plaza del Mercado Quebradillas	149	4.9	mg/cm2	Positive	1	6/23/2022	11:45:36	R.Alejandro	526	Exterior	Communal Hallway	Floor	Ceramic	-	Gray	Deteriorated	



Attachment 4
LBP XRF Tabulated Readings



Commercial Structure Plaza del Mercado Quebradillas P.R

Company		Heuresis Corp.															
Model	PB001																
Type	XRF Lead Paint Analyzer																
Serial Num.	3008																
App Version	PB001-4.1-11																
Job Id	Reading #	Concentration	Units	Result	Level	Date	Time	Inspector	Job	Room	Structure	Component	Substrate	Wall	Color	Condition	Approx. Qty.
Commercial Structure Plaza del Mercado Quebradillas	1	0.9	mg/cm2	Negative	1	6/23/2022	9:22:52	R.Alejandro	526	Exterior	Calibration	-	-	-	-	-	-
Commercial Structure Plaza del Mercado Quebradillas	2	1.1	mg/cm2	Positive	1	6/23/2022	9:23:06	R.Alejandro	526	Exterior	Calibration	-	-	-	-	-	-
Commercial Structure Plaza del Mercado Quebradillas	3	1	mg/cm2	Positive	1	6/23/2022	9:23:14	R.Alejandro	526	Exterior	Calibration	-	-	-	-	-	-
Commercial Structure Plaza del Mercado Quebradillas	4	0.3	mg/cm2	Negative	1	6/23/2022	9:24:21	R.Alejandro	526	Interior	Room 1	Wall	Concrete	A	White	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	5	0	mg/cm2	Negative	1	6/23/2022	9:24:46	R.Alejandro	526	Interior	Room 1	Wall	Concrete	B	White	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	6	0.2	mg/cm2	Negative	1	6/23/2022	9:25:12	R.Alejandro	526	Interior	Room 1	Wall	Concrete	B	Green	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	7	0.1	mg/cm2	Negative	1	6/23/2022	9:25:25	R.Alejandro	526	Interior	Room 1	Wall	Concrete	C	Green	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	8	0.4	mg/cm2	Negative	1	6/23/2022	9:25:43	R.Alejandro	526	Interior	Room 1	Wall	Concrete	D	Green	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	9	0.1	mg/cm2	Negative	1	6/23/2022	9:26:35	R.Alejandro	526	Interior	Room 1	Window Frame	Metal	D	Black	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	10	0.2	mg/cm2	Negative	1	6/23/2022	9:26:47	R.Alejandro	526	Interior	Room 1	Window Frame	Metal	D	Black	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	11	1.1	mg/cm2	Positive	1	6/23/2022	9:27:47	R.Alejandro	526	Interior	Room 1	Floor	Ceramic	-	Brown	Deteriorated	110 sf
Commercial Structure Plaza del Mercado Quebradillas	12	0.1	mg/cm2	Negative	1	6/23/2022	9:29:47	R.Alejandro	526	Interior	Room 1	Door	Metal	-	Gray	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	13	0.1	mg/cm2	Negative	1	6/23/2022	9:30:02	R.Alejandro	526	Interior	Room 1	Door Frame	Metal	-	Gray	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	14	0.1	mg/cm2	Negative	1	6/23/2022	9:30:31	R.Alejandro	526	Interior	Room 5	Door	Metal	-	Gray	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	15	0.2	mg/cm2	Negative	1	6/23/2022	9:30:40	R.Alejandro	526	Interior	Room 5	Door Frame	Metal	-	Gray	Deteriorated	-



Commercial Structure Plaza del Mercado Quebradillas P.R

Company		Heuresis Corp.															
Model	PB001																
Type	XRF Lead Paint Analyzer																
Serial Num.	3008																
App Version	PB00i-4.1-11																
Job Id	Reading #	Concentration	Units	Result	Level	Date	Time	Inspector	Job	Room	Structure	Component	Substrate	Wall	Color	Condition	Approx. Qty.
Commercial Structure Plaza del Mercado Quebradillas	16	0	mg/cm2	Negative	1	6/23/2022	9:31:15	R.Alejandro	526	Interior	Room 5	Wall	Wood	A	Red	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	17	0.2	mg/cm2	Negative	1	6/23/2022	9:31:32	R.Alejandro	526	Interior	Room 5	Wall	Wood	A	Gray	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	18	0	mg/cm2	Negative	1	6/23/2022	9:31:54	R.Alejandro	526	Interior	Room 5	Wall	Concrete	B	White	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	19	0.2	mg/cm2	Negative	1	6/23/2022	9:32:14	R.Alejandro	526	Interior	Room 5	Wall	Concrete	C	Red	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	20	0.1	mg/cm2	Negative	1	6/23/2022	9:32:31	R.Alejandro	526	Interior	Room 5	Wall	Concrete	D	White	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	21	1	mg/cm2	Positive	1	6/23/2022	9:33:05	R.Alejandro	526	Interior	Room 5	Floor	Ceramic	-	Brown	Deteriorated	130 sf
Commercial Structure Plaza del Mercado Quebradillas	22	0.4	mg/cm2	Negative	1	6/23/2022	9:37:54	R.Alejandro	526	Interior	Women Restroom	Wall	Ceramic	A	Beige	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	23	0.4	mg/cm2	Negative	1	6/23/2022	9:38:08	R.Alejandro	526	Interior	Women Restroom	Wall	Ceramic	B	Beige	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	24	0.5	mg/cm2	Negative	1	6/23/2022	9:38:22	R.Alejandro	526	Interior	Women Restroom	Wall	Ceramic	C	Beige	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	25	0.3	mg/cm2	Negative	1	6/23/2022	9:38:36	R.Alejandro	526	Interior	Women Restroom	Wall	Ceramic	D	Beige	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	26	0.2	mg/cm2	Negative	1	6/23/2022	9:39:00	R.Alejandro	526	Interior	Women Restroom	Wall	Concrete	A	Gray	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	27	0.1	mg/cm2	Negative	1	6/23/2022	9:39:17	R.Alejandro	526	Interior	Women Restroom	Wall	Concrete	C	Gray	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	28	0.1	mg/cm2	Negative	1	6/23/2022	9:40:02	R.Alejandro	526	Interior	Women Restroom	Door	Wood	-	Gray	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	29	0.1	mg/cm2	Negative	1	6/23/2022	9:40:09	R.Alejandro	526	Interior	Women Restroom	Door Frame	Wood	-	Gray	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	30	0	mg/cm2	Negative	1	6/23/2022	9:40:18	R.Alejandro	526	Interior	Women Restroom	Door	Wood	-	Gray	Deteriorated	-



Commercial Structure Plaza del Mercado Quebradillas P.R

Company		Heuresis Corp.															
Model	PB001																
Type	XRF Lead Paint Analyzer																
Serial Num.	3008																
App Version	PB001-4.1-11																
Job Id	Reading #	Concentration	Units	Result	Level	Date	Time	Inspector	Job	Room	Structure	Component	Substrate	Wall	Color	Condition	Approx. Qty.
Commercial Structure Plaza del Mercado Quebradillas	31	0.2	mg/cm2	Negative	1	6/23/2022	9:42:02	R.Alejandro	526	Interior	Women Restroom	Window	Metal	-	Black	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	32	0.2	mg/cm2	Negative	1	6/23/2022	9:42:12	R.Alejandro	526	Interior	Women Restroom	Window	Metal	-	Black	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	33	0.2	mg/cm2	Negative	1	6/23/2022	9:42:42	R.Alejandro	526	Interior	Women Restroom	Ceiling	Concrete	-	Gray	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	34	0.1	mg/cm2	Negative	1	6/23/2022	9:43:12	R.Alejandro	526	Interior	Women Restroom	Door	Metal	-	Gray	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	35	0	mg/cm2	Negative	1	6/23/2022	9:43:23	R.Alejandro	526	Interior	Women Restroom	Door Frame	Metal	-	Gray	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	36	0.2	mg/cm2	Negative	1	6/23/2022	9:44:29	R.Alejandro	526	Interior	Women Restroom	Door	Metal	-	Brown	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	37	0.2	mg/cm2	Negative	1	6/23/2022	9:44:36	R.Alejandro	526	Interior	Women Restroom	Door Frame	Metal	-	Brown	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	38	0.3	mg/cm2	Negative	1	6/23/2022	9:45:07	R.Alejandro	526	Interior	Women Restroom	Floor	Ceramic	-	Brown	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	39	0.2	mg/cm2	Negative	1	6/23/2022	9:45:24	R.Alejandro	526	Interior	Women Restroom	Floor	Ceramic	-	Brown	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	40	0.1	mg/cm2	Negative	1	6/23/2022	9:47:13	R.Alejandro	526	Interior	Men Restroom	Wall	Concrete	A	Gray	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	41	0.2	mg/cm2	Negative	1	6/23/2022	9:47:40	R.Alejandro	526	Interior	Men Restroom	Wall	Concrete	B	Gray	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	42	0.1	mg/cm2	Negative	1	6/23/2022	9:48:46	R.Alejandro	526	Interior	Men Restroom	Wall	Concrete	C	Gray	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	43	0.1	mg/cm2	Negative	1	6/23/2022	9:49:01	R.Alejandro	526	Interior	Men Restroom	Wall	Concrete	D	Gray	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	44	0.1	mg/cm2	Negative	1	6/23/2022	9:49:23	R.Alejandro	526	Interior	Men Restroom	Door	Metal	-	Brown	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	45	0	mg/cm2	Negative	1	6/23/2022	9:49:31	R.Alejandro	526	Interior	Men Restroom	Door Frame	Metal	-	Brown	Deteriorated	-



Commercial Structure Plaza del Mercado Quebradillas P.R

Company		Heuresis Corp.															
Model	PB001																
Type	XRF Lead Paint Analyzer																
Serial Num.	3008																
App Version	PB001-4.1-11																
Job Id	Reading #	Concentration	Units	Result	Level	Date	Time	Inspector	Job	Room	Structure	Component	Substrate	Wall	Color	Condition	Approx. Qty.
Commercial Structure Plaza del Mercado Quebradillas	46	0.5	mg/cm2	Negative	1	6/23/2022	9:50:35	R.Alejandro	526	Interior	Men Restroom	Wall	Ceramic	A	White	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	47	0.5	mg/cm2	Negative	1	6/23/2022	9:50:51	R.Alejandro	526	Interior	Men Restroom	Wall	Ceramic	B	White	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	48	0.4	mg/cm2	Negative	1	6/23/2022	9:51:06	R.Alejandro	526	Interior	Men Restroom	Wall	Ceramic	C	White	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	49	0.4	mg/cm2	Negative	1	6/23/2022	9:51:18	R.Alejandro	526	Interior	Men Restroom	Wall	Ceramic	D	White	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	50	0.2	mg/cm2	Negative	1	6/23/2022	9:53:08	R.Alejandro	526	Interior	Men Restroom	Window	Metal	D	Black	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	51	0.2	mg/cm2	Negative	1	6/23/2022	9:53:15	R.Alejandro	526	Interior	Men Restroom	Window	Metal	D	Black	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	52	0.4	mg/cm2	Negative	1	6/23/2022	9:53:53	R.Alejandro	526	Interior	Men Restroom	Cabinet	Ceramic	C	White	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	53	0.4	mg/cm2	Negative	1	6/23/2022	9:54:12	R.Alejandro	526	Interior	Men Restroom	Cabinet	Ceramic	C	White	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	54	0.2	mg/cm2	Negative	1	6/23/2022	9:55:03	R.Alejandro	526	Interior	Men Restroom	Toilet	Porcelain	-	White	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	55	0.2	mg/cm2	Negative	1	6/23/2022	9:55:11	R.Alejandro	526	Interior	Men Restroom	Sink	Porcelain	-	White	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	56	0.4	mg/cm2	Negative	1	6/23/2022	9:55:37	R.Alejandro	526	Interior	Men Restroom	Floor	Ceramic	-	Beige	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	57	0.1	mg/cm2	Negative	1	6/23/2022	9:56:21	R.Alejandro	526	Interior	Men Restroom	Ceiling	Concrete	-	Beige	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	58	0.3	mg/cm2	Negative	1	6/23/2022	10:00:23	R.Alejandro	526	Interior	Room 2	Wall	Concrete	A	Blue	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	59	0.2	mg/cm2	Negative	1	6/23/2022	10:00:55	R.Alejandro	526	Interior	Room 2	Window	Metal	A	Green	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	60	0.2	mg/cm2	Negative	1	6/23/2022	10:01:20	R.Alejandro	526	Interior	Room 2	Wall	Concrete	B	Green	Deteriorated	-



Commercial Structure Plaza del Mercado Quebradillas P.R

Company		Heuresis Corp.															
Model	PB001																
Type	XRF Lead Paint Analyzer																
Serial Num.	3008																
App Version	PB00i-4.1-11																
Job Id	Reading #	Concentration	Units	Result	Level	Date	Time	Inspector	Job	Room	Structure	Component	Substrate	Wall	Color	Condition	Approx. Qty.
Commercial Structure Plaza del Mercado Quebradillas	61	0.2	mg/cm2	Negative	1	6/23/2022	10:01:34	R.Alejandro	526	Interior	Room 2	Wall	Concrete	B	Green	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	62	0.2	mg/cm2	Negative	1	6/23/2022	10:02:10	R.Alejandro	526	Interior	Room 2	Wall	Concrete	C	White	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	63	0.2	mg/cm2	Negative	1	6/23/2022	10:02:23	R.Alejandro	526	Interior	Room 2	Wall	Concrete	D	White	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	64	0.1	mg/cm2	Negative	1	6/23/2022	10:03:07	R.Alejandro	526	Interior	Room 2	Ceiling	Wood	-	White	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	65	0	mg/cm2	Negative	1	6/23/2022	10:03:35	R.Alejandro	526	Interior	Room 2	Partition Wall	Ceramic	-	White	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	66	0.3	mg/cm2	Negative	1	6/23/2022	10:03:44	R.Alejandro	526	Interior	Room 2	Partition Wall	Ceramic	-	White	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	67	5.5	mg/cm2	Positive	1	6/23/2022	10:04:05	R.Alejandro	526	Interior	Room 2	Floor	Ceramic	-	Brown	Deteriorated	498 sf
Commercial Structure Plaza del Mercado Quebradillas	68	0.1	mg/cm2	Negative	1	6/23/2022	10:06:08	R.Alejandro	526	Interior	Room 2	Door	Metal	-	Green	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	69	0.1	mg/cm2	Negative	1	6/23/2022	10:07:26	R.Alejandro	526	Interior	Room 2	Door Frame	Metal	-	Green	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	70	0.3	mg/cm2	Negative	1	6/23/2022	10:09:03	R.Alejandro	526	Interior	Room 2	Door	Metal	-	Green	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	71	0.1	mg/cm2	Negative	1	6/23/2022	10:09:58	R.Alejandro	526	Interior	Room 2	Door Frame	Metal	-	Green	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	72	0.2	mg/cm2	Negative	1	6/23/2022	10:21:26	R.Alejandro	526	Interior	Room 6	Door	Metal	-	White	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	73	0.3	mg/cm2	Negative	1	6/23/2022	10:21:35	R.Alejandro	526	Interior	Room 6	Door Frame	Metal	-	White	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	74	0.3	mg/cm2	Negative	1	6/23/2022	10:22:01	R.Alejandro	526	Interior	Room 6	Wall	Concrete	A	Gray	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	75	0.1	mg/cm2	Negative	1	6/23/2022	10:22:12	R.Alejandro	526	Interior	Room 6	Wall	Concrete	B	Gray	Deteriorated	-



Commercial Structure Plaza del Mercado Quebradillas P.R

Company		Heuresis Corp.															
Model	PB001																
Type	XRF Lead Paint Analyzer																
Serial Num.	3008																
App Version	PB001-4.1-11																
Job Id	Reading #	Concentration	Units	Result	Level	Date	Time	Inspector	Job	Room	Structure	Component	Substrate	Wall	Color	Condition	Approx. Qty.
Commercial Structure Plaza del Mercado Quebradillas	76	0.1	mg/cm2	Negative	1	6/23/2022	10:22:27	R.Alejandro	526	Interior	Room 6	Wall	Concrete	C	Gray	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	77	0.2	mg/cm2	Negative	1	6/23/2022	10:22:46	R.Alejandro	526	Interior	Room 6	Wall	Concrete	D	Gray	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	78	0.4	mg/cm2	Negative	1	6/23/2022	10:23:11	R.Alejandro	526	Interior	Room 6	Floor	Ceramic	-	Beige	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	79	0.1	mg/cm2	Negative	1	6/23/2022	10:24:24	R.Alejandro	526	Interior	Room 7	Wall	Wood	A	Beige	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	80	0.1	mg/cm2	Negative	1	6/23/2022	10:24:38	R.Alejandro	526	Interior	Room 7	Wall	Wood	B	Beige	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	81	0.4	mg/cm2	Negative	1	6/23/2022	10:25:02	R.Alejandro	526	Interior	Room 7	Wall	Wood	C	Beige	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	82	0.2	mg/cm2	Negative	1	6/23/2022	10:25:18	R.Alejandro	526	Interior	Room 7	Wall	Wood	D	Beige	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	83	0.2	mg/cm2	Negative	1	6/23/2022	10:25:49	R.Alejandro	526	Interior	Room 7	Window	Metal	-	Black	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	84	1.5	mg/cm2	Positive	1	6/23/2022	10:26:18	R.Alejandro	526	Interior	Room 7	Floor	Ceramic	-	Brown	Deteriorated	90 sf
Commercial Structure Plaza del Mercado Quebradillas	85	0.1	mg/cm2	Negative	1	6/23/2022	10:28:39	R.Alejandro	526	Interior	Room 7	Door	Wood	-	Beige	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	86	0.1	mg/cm2	Negative	1	6/23/2022	10:28:55	R.Alejandro	526	Interior	Room 7	Door Frame	Wood	-	Beige	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	87	1	mg/cm2	Positive	1	6/23/2022	10:30:45	R.Alejandro	526	Interior	Room 7	Wall	Ceramic	B	Brown	Deteriorated	24 sf
Commercial Structure Plaza del Mercado Quebradillas	88	0.1	mg/cm2	Negative	1	6/23/2022	10:32:14	R.Alejandro	526	Interior	Room 7	Wall	Drywall	A	Red	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	89	0.2	mg/cm2	Negative	1	6/23/2022	10:32:36	R.Alejandro	526	Interior	Room 7	Wall	Drywall	B	Beige	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	90	0	mg/cm2	Negative	1	6/23/2022	10:32:57	R.Alejandro	526	Interior	Room 7	Wall	Drywall	C	Blue	Deteriorated	-



Commercial Structure Plaza del Mercado Quebradillas P.R

Company		Heuresis Corp.															
Model	PB001																
Type	XRF Lead Paint Analyzer																
Serial Num.	3008																
App Version	PB001-4.1-11																
Job Id	Reading #	Concentration	Units	Result	Level	Date	Time	Inspector	Job	Room	Structure	Component	Substrate	Wall	Color	Condition	Approx. Qty.
Commercial Structure Plaza del Mercado Quebradillas	91	0.1	mg/cm2	Negative	1	6/23/2022	10:33:13	R.Alejandro	526	Interior	Room 7	Wall	Drywall	D	Beige	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	92	0.3	mg/cm2	Negative	1	6/23/2022	10:33:34	R.Alejandro	526	Interior	Room 7	Ceiling	Wood	-	Beige	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	93	0.3	mg/cm2	Negative	1	6/23/2022	10:33:56	R.Alejandro	526	Exterior	Room 7	Ceiling	Wood	-	Beige	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	94	0.1	mg/cm2	Negative	1	6/23/2022	10:35:58	R.Alejandro	526	Interior	Room 8	Door	Metal	-	Gray	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	95	0.3	mg/cm2	Negative	1	6/23/2022	10:36:14	R.Alejandro	526	Interior	Room 8	Door Frame	Metal	-	Gray	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	96	0.2	mg/cm2	Negative	1	6/23/2022	10:39:52	R.Alejandro	526	Interior	Room 9	Door	Metal	-	Gray	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	97	0.2	mg/cm2	Negative	1	6/23/2022	10:40:02	R.Alejandro	526	Interior	Room 9	Door Frame	Metal	-	Gray	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	98	0.2	mg/cm2	Negative	1	6/23/2022	10:40:34	R.Alejandro	526	Interior	Room 10	Door	Metal	-	Gray	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	99	0.1	mg/cm2	Negative	1	6/23/2022	10:41:25	R.Alejandro	526	Interior	Room 10	Door Frame	Metal	-	Gray	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	100	0.2	mg/cm2	Negative	1	6/23/2022	10:44:01	R.Alejandro	526	Interior	Room 10	Wall	Concrete	-	Green	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	101	0.3	mg/cm2	Negative	1	6/23/2022	10:44:15	R.Alejandro	526	Interior	Room 10	Wall	Concrete	-	Pink	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	102	0.1	mg/cm2	Negative	1	6/23/2022	10:44:35	R.Alejandro	526	Interior	Room 10	Wall	Concrete	B	Pink	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	103	0.4	mg/cm2	Negative	1	6/23/2022	10:45:12	R.Alejandro	526	Interior	Room 10	Wall	Concrete	B	Green	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	104	0.2	mg/cm2	Negative	1	6/23/2022	10:45:27	R.Alejandro	526	Interior	Room 10	Wall	Concrete	C	Pink	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	105	0.1	mg/cm2	Negative	1	6/23/2022	10:45:43	R.Alejandro	526	Interior	Room 10	Wall	Concrete	D	Pink	Deteriorated	-



Commercial Structure Plaza del Mercado Quebradillas P.R

Company		Heuresis Corp.															
Model	PB001																
Type	XRF Lead Paint Analyzer																
Serial Num.	3008																
App Version	PB001-4.1-11																
Job Id	Reading #	Concentration	Units	Result	Level	Date	Time	Inspector	Job	Room	Structure	Component	Substrate	Wall	Color	Condition	Approx. Qty.
Commercial Structure Plaza del Mercado Quebradillas	106	0	mg/cm2	Negative	1	6/23/2022	10:46:11	R.Alejandro	526	Interior	Room 10	Ceiling	Wood	-	White	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	107	0.2	mg/cm2	Negative	1	6/23/2022	10:48:02	R.Alejandro	526	Interior	Room 11	Door	Metal	-	Gray	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	108	0.2	mg/cm2	Negative	1	6/23/2022	10:48:13	R.Alejandro	526	Interior	Room 11	Door Frame	Metal	-	Gray	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	109	0.1	mg/cm2	Negative	1	6/23/2022	10:48:47	R.Alejandro	526	Interior	Room 11	Burglar Fence	Metal	-	Gray	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	110	0.1	mg/cm2	Negative	1	6/23/2022	10:48:55	R.Alejandro	526	Interior	Room 11	Burglar Fence	Metal	-	Gray	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	111	0.5	mg/cm2	Negative	1	6/23/2022	10:49:43	R.Alejandro	526	Interior	Room 12	Burglar Fence	Metal	-	Gray	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	112	0.1	mg/cm2	Negative	1	6/23/2022	10:50:35	R.Alejandro	526	Interior	Room 12	Door	Metal	-	Gray	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	113	1.7	mg/cm2	Positive	1	6/23/2022	10:50:59	R.Alejandro	526	Interior	Room 12	Door Frame	Metal	-	Gray	Deteriorated	1 Unit
Commercial Structure Plaza del Mercado Quebradillas	114	1.5	mg/cm2	Positive	1	6/23/2022	10:53:15	R.Alejandro	526	Interior	Room 12	Door	Metal	-	Gray	Deteriorated	1 Unit
Commercial Structure Plaza del Mercado Quebradillas	115	0.1	mg/cm2	Negative	1	6/23/2022	10:54:30	R.Alejandro	526	Interior	Room 14	Wall	Ceramic	C	White	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	116	0.4	mg/cm2	Negative	1	6/23/2022	10:55:17	R.Alejandro	526	Interior	Room 14	Wall	Ceramic	C	White	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	117	0.1	mg/cm2	Negative	1	6/23/2022	10:59:13	R.Alejandro	526	Interior	Room 13	Door	Metal	-	Gray	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	118	0.1	mg/cm2	Negative	1	6/23/2022	10:59:22	R.Alejandro	526	Interior	Room 13	Door Frame	Metal	-	Gray	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	119	0.1	mg/cm2	Negative	1	6/23/2022	10:59:33	R.Alejandro	526	Interior	Room 13	Door	Metal	-	Gray	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	120	0	mg/cm2	Negative	1	6/23/2022	10:59:42	R.Alejandro	526	Interior	Room 13	Door Frame	Metal	-	Gray	Deteriorated	-



Commercial Structure Plaza del Mercado Quebradillas P.R

Company		Heuresis Corp.															
Model	PB001																
Type	XRF Lead Paint Analyzer																
Serial Num.	3008																
App Version	PB001-4.1-11																
Job Id	Reading #	Concentration	Units	Result	Level	Date	Time	Inspector	Job	Room	Structure	Component	Substrate	Wall	Color	Condition	Approx. Qty.
Commercial Structure Plaza del Mercado Quebradillas	121	0.2	mg/cm2	Negative	1	6/23/2022	11:03:32	R.Alejandro	526	Interior	Room 13	Wall	Concrete	A	Orange	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	122	0.2	mg/cm2	Negative	1	6/23/2022	11:04:01	R.Alejandro	526	Interior	Room 13	Wall	Concrete	C	Orange	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	123	0.2	mg/cm2	Negative	1	6/23/2022	11:04:29	R.Alejandro	526	Interior	Room 13	Ceiling	Wood	-	Orange	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	124	0.1	mg/cm2	Negative	1	6/23/2022	11:05:09	R.Alejandro	526	Interior	Room 13	Door	Metal	-	White	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	125	0	mg/cm2	Negative	1	6/23/2022	11:05:19	R.Alejandro	526	Interior	Room 13	Door Frame	Metal	-	White	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	126	0.3	mg/cm2	Negative	1	6/23/2022	11:08:50	R.Alejandro	526	Interior	Room 14	Wall	Concrete	C	White	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	127	0	mg/cm2	Negative	1	6/23/2022	11:09:26	R.Alejandro	526	Interior	Room 14	Wall	Drywall	D	Green	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	128	0.3	mg/cm2	Negative	1	6/23/2022	11:11:01	R.Alejandro	526	Interior	Room 14	Floor	Ceramic	-	Beige	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	129	1.1	mg/cm2	Positive	1	6/23/2022	11:11:19	R.Alejandro	526	Interior	Room 14	Floor	Ceramic	-	Brown	Deteriorated	120 sf
Commercial Structure Plaza del Mercado Quebradillas	130	0.1	mg/cm2	Negative	1	6/23/2022	11:13:23	R.Alejandro	526	Interior	Room 14	Ceiling	Wood	-	Brown	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	131	0	mg/cm2	Negative	1	6/23/2022	11:13:30	R.Alejandro	526	Interior	Room 14	Ceiling	Wood	-	Brown	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	132	0.8	mg/cm2	Negative	1	6/23/2022	11:14:34	R.Alejandro	526	Interior	Room 14	Floor	Ceramic	-	Beige	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	133	0.7	mg/cm2	Negative	1	6/23/2022	11:14:51	R.Alejandro	526	Interior	Room 14	Floor	Ceramic	-	Beige	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	134	0.3	mg/cm2	Negative	1	6/23/2022	11:17:03	R.Alejandro	526	Interior	Room 15	Door	Metal	-	Gray	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	135	0.1	mg/cm2	Negative	1	6/23/2022	11:17:46	R.Alejandro	526	Interior	Room 15	Door Frame	Metal	-	Gray	Deteriorated	-



Commercial Structure Plaza del Mercado Quebradillas P.R

Company		Heuresis Corp.															
Model	PB001																
Type	XRF Lead Paint Analyzer																
Serial Num.	3008																
App Version	PB001-4.1-11																
Job Id	Reading #	Concentration	Units	Result	Level	Date	Time	Inspector	Job	Room	Structure	Component	Substrate	Wall	Color	Condition	Approx. Qty.
Commercial Structure Plaza del Mercado Quebradillas	136	0.2	mg/cm2	Negative	1	6/23/2022	11:19:53	R.Alejandro	526	Interior	Room 15	Wall	Concrete	A	Yellow	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	137	0.1	mg/cm2	Negative	1	6/23/2022	11:21:32	R.Alejandro	526	Interior	Room 15	Wall	Concrete	B	Yellow	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	138	0.3	mg/cm2	Negative	1	6/23/2022	11:23:03	R.Alejandro	526	Interior	Room 15	Wall	Concrete	C	Yellow	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	139	0.3	mg/cm2	Negative	1	6/23/2022	11:24:21	R.Alejandro	526	Interior	Room 15	Wall	Concrete	D	Yellow	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	140	0.2	mg/cm2	Negative	1	6/23/2022	11:25:43	R.Alejandro	526	Interior	Room 15	Floor	Ceramic	-	Beige	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	141	0.3	mg/cm2	Negative	1	6/23/2022	11:25:52	R.Alejandro	526	Interior	Room 15	Floor	Ceramic	-	Beige	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	142	0.8	mg/cm2	Negative	1	6/23/2022	11:26:28	R.Alejandro	526	Exterior	Room 15	Wall	Ceramic	B	Gray	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	143	0.1	mg/cm2	Negative	1	6/23/2022	11:31:15	R.Alejandro	526	Interior	Communal Hallway	Burglar Fence	Metal	A	Gray	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	144	0.2	mg/cm2	Negative	1	6/23/2022	11:31:52	R.Alejandro	526	Interior	Communal Hallway	Burglar Fence	Metal	A	Gray	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	145	0.3	mg/cm2	Negative	1	6/23/2022	11:32:14	R.Alejandro	526	Interior	Communal Hallway	Burglar Fence	Metal	A	Gray	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	146	0.4	mg/cm2	Negative	1	6/23/2022	11:40:04	R.Alejandro	526	Exterior	Communal Hallway	Wall	Ceramic	B	Gray	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	147	3.7	mg/cm2	Positive	1	6/23/2022	11:44:35	R.Alejandro	526	Exterior	Communal Hallway	Floor	Ceramic	-	Gray	Deteriorated	7,000 sf
Commercial Structure Plaza del Mercado Quebradillas	148	3.4	mg/cm2	Positive	1	6/23/2022	11:45:00	R.Alejandro	526	Exterior	Communal Hallway	Floor	Ceramic	-	Gray	Deteriorated	
Commercial Structure Plaza del Mercado Quebradillas	149	4.9	mg/cm2	Positive	1	6/23/2022	11:45:36	R.Alejandro	526	Exterior	Communal Hallway	Floor	Ceramic	-	Gray	Deteriorated	
Commercial Structure Plaza del Mercado Quebradillas	150	0.2	mg/cm2	Negative	1	6/23/2022	11:48:53	R.Alejandro	526	Interior	Communal Hallway	Column	Concrete	-	Orange	Deteriorated	-



Commercial Structure Plaza del Mercado Quebradillas P.R

Company		Heuresis Corp.															
Model	PB001																
Type	XRF Lead Paint Analyzer																
Serial Num.	3008																
App Version	PB001-4.1-11																
Job Id	Reading #	Concentration	Units	Result	Level	Date	Time	Inspector	Job	Room	Structure	Component	Substrate	Wall	Color	Condition	Approx. Qty.
Commercial Structure Plaza del Mercado Quebradillas	151	0	mg/cm2	Negative	1	6/23/2022	11:49:03	R.Alejandro	526	Interior	Communal Hallway	Column	Concrete	-	Orange	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	152	0.2	mg/cm2	Negative	1	6/23/2022	11:49:59	R.Alejandro	526	Interior	Communal Hallway	Column	Concrete	-	Orange	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	153	0.1	mg/cm2	Negative	1	6/23/2022	11:50:08	R.Alejandro	526	Interior	Communal Hallway	Column	Concrete	-	Orange	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	154	0.3	mg/cm2	Negative	1	6/23/2022	11:50:29	R.Alejandro	526	Interior	Communal Hallway	Column	Concrete	-	Orange	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	155	0.2	mg/cm2	Negative	1	6/23/2022	11:50:39	R.Alejandro	526	Interior	Communal Hallway	Column	Concrete	-	Orange	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	156	0.2	mg/cm2	Negative	1	6/23/2022	11:50:59	R.Alejandro	526	Interior	Communal Hallway	Column	Concrete	-	Orange	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	157	0.2	mg/cm2	Negative	1	6/23/2022	11:51:13	R.Alejandro	526	Interior	Communal Hallway	Column	Concrete	-	Orange	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	158	0.2	mg/cm2	Negative	1	6/23/2022	11:51:48	R.Alejandro	526	Interior	Communal Hallway	Column	Concrete	D	Orange	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	159	0	mg/cm2	Negative	1	6/23/2022	11:51:57	R.Alejandro	526	Interior	Communal Hallway	Column	Concrete	D	Orange	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	160	0.1	mg/cm2	Negative	1	6/23/2022	11:52:06	R.Alejandro	526	Interior	Communal Hallway	Column	Concrete	D	Orange	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	161	0.3	mg/cm2	Negative	1	6/23/2022	11:53:11	R.Alejandro	526	Interior	Communal Hallway	Wall	Concrete	B	Gray	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	162	0	mg/cm2	Negative	1	6/23/2022	11:53:54	R.Alejandro	526	Interior	Communal Hallway	Wall	Concrete	B	Green	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	163	0.1	mg/cm2	Negative	1	6/23/2022	11:54:02	R.Alejandro	526	Interior	Communal Hallway	Wall	Concrete	B	Green	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	164	0.2	mg/cm2	Negative	1	6/23/2022	11:54:49	R.Alejandro	526	Interior	Communal Hallway	Wall	Concrete	B	Pink	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	165	0.3	mg/cm2	Negative	1	6/23/2022	11:55:10	R.Alejandro	526	Interior	Communal Hallway	Wall	Concrete	B	Pink	Deteriorated	-



Commercial Structure Plaza del Mercado Quebradillas P.R

Company	Heuresis Corp.															
Model	PB001															
Type	XRF Lead Paint Analyzer															
Serial Num.	3008															
App Version	PB001-4.1-11															



Job Id	Reading #	Concentration	Units	Result	Level	Date	Time	Inspector	Job	Room	Structure	Component	Substrate	Wall	Color	Condition	Approx. Qty.
Commercial Structure Plaza del Mercado Quebradillas	166	0.2	mg/cm2	Negative	1	6/23/2022	11:55:35	R.Alejandro	526	Interior	Communal Hallway	Wall	Concrete	B	Gray	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	167	0.3	mg/cm2	Negative	1	6/23/2022	11:55:50	R.Alejandro	526	Interior	Communal Hallway	Wall	Concrete	D	Gray	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	168	0	mg/cm2	Negative	1	6/23/2022	11:56:02	R.Alejandro	526	Interior	Communal Hallway	Wall	Concrete	D	Gray	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	169	0.1	mg/cm2	Negative	1	6/23/2022	11:56:14	R.Alejandro	526	Interior	Communal Hallway	Wall	Concrete	D	Gray	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	170	0.2	mg/cm2	Negative	1	6/23/2022	11:56:27	R.Alejandro	526	Interior	Communal Hallway	Wall	Concrete	D	Gray	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	171	0.2	mg/cm2	Negative	1	6/23/2022	11:56:38	R.Alejandro	526	Interior	Communal Hallway	Wall	Concrete	D	Gray	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	172	0.2	mg/cm2	Negative	1	6/23/2022	11:58:10	R.Alejandro	526	Exterior	Exterior	Wall	Concrete	A	Gray	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	173	0.1	mg/cm2	Negative	1	6/23/2022	11:58:18	R.Alejandro	526	Exterior	Exterior	Wall	Concrete	A	Gray	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	174	0	mg/cm2	Negative	1	6/23/2022	11:58:25	R.Alejandro	526	Exterior	Exterior	Wall	Concrete	A	Gray	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	175	0.3	mg/cm2	Negative	1	6/23/2022	11:58:35	R.Alejandro	526	Exterior	Exterior	Wall	Concrete	A	Gray	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	176	0.2	mg/cm2	Negative	1	6/23/2022	11:58:55	R.Alejandro	526	Exterior	Exterior	Wall	Concrete	A	Orange	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	177	0.1	mg/cm2	Negative	1	6/23/2022	11:59:03	R.Alejandro	526	Exterior	Exterior	Wall	Concrete	A	Orange	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	178	0.1	mg/cm2	Negative	1	6/23/2022	11:59:10	R.Alejandro	526	Exterior	Exterior	Wall	Concrete	A	Orange	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	179	0.1	mg/cm2	Negative	1	6/23/2022	12:00:10	R.Alejandro	526	Exterior	Exterior	Wall	Concrete	D	Gray	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	180	0	mg/cm2	Negative	1	6/23/2022	12:00:17	R.Alejandro	526	Exterior	Exterior	Wall	Concrete	D	Gray	Deteriorated	-

Commercial Structure Plaza del Mercado Quebradillas P.R

Company		Heuresis Corp.															
Model	PB001																
Type	XRF Lead Paint Analyzer																
Serial Num.	3008																
App Version	PB001-4.1-11																
Job Id	Reading #	Concentration	Units	Result	Level	Date	Time	Inspector	Job	Room	Structure	Component	Substrate	Wall	Color	Condition	Approx. Qty.
Commercial Structure Plaza del Mercado Quebradillas	181	0.1	mg/cm2	Negative	1	6/23/2022	12:00:27	R.Alejandro	526	Exterior	Exterior	Wall	Concrete	D	Gray	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	182	0.3	mg/cm2	Negative	1	6/23/2022	12:00:37	R.Alejandro	526	Exterior	Exterior	Wall	Concrete	D	Gray	Deteriorated	-
Commercial Structure Plaza del Mercado Quebradillas	183	1	mg/cm2	Positive	1	6/23/2022	12:05:25	R.Alejandro	526	Exterior	Calibration	-	-	-	-	-	-
Commercial Structure Plaza del Mercado Quebradillas	184	1	mg/cm2	Positive	1	6/23/2022	12:05:59	R.Alejandro	526	Exterior	Calibration	-	-	-	-	-	-
Commercial Structure Plaza del Mercado Quebradillas	185	1	mg/cm2	Positive	1	6/23/2022	12:06:24	R.Alejandro	526	Exterior	Calibration	-	-	-	-	-	-
Commercial Structure Plaza del Mercado Quebradillas	186	0.2	mg/cm2	Negative	1	6/23/2022	12:06:51	R.Alejandro	526	Exterior	Exterior	Wall	Concrete	D	Red	Intact	-
Commercial Structure Plaza del Mercado Quebradillas	187	-0.1	mg/cm2	Negative	1	6/23/2022	12:07:44	R.Alejandro	526	Exterior	Exterior	Wall	Concrete	D	Red	Intact	-
Commercial Structure Plaza del Mercado Quebradillas	188	-0.1	mg/cm2	Negative	1	6/23/2022	12:08:20	R.Alejandro	526	Exterior	Exterior	Wall	Concrete	D	Red	Intact	-
Commercial Structure Plaza del Mercado Quebradillas	189	0.1	mg/cm2	Negative	1	6/23/2022	12:09:22	R.Alejandro	526	Exterior	Exterior	Wall	Concrete	D	Red	Intact	-
Commercial Structure Plaza del Mercado Quebradillas	190	0.5	mg/cm2	Negative	1	6/23/2022	12:10:13	R.Alejandro	526	Exterior	Exterior	Wall	Concrete	D	Blue	Intact	-
Commercial Structure Plaza del Mercado Quebradillas	191	0.3	mg/cm2	Negative	1	6/23/2022	12:13:18	R.Alejandro	526	Exterior	Exterior	Wall	Concrete	D	Blue	Intact	-
Commercial Structure Plaza del Mercado Quebradillas	192	0	mg/cm2	Negative	1	6/23/2022	12:14:20	R.Alejandro	526	Exterior	Exterior	Wall	Concrete	D	Blue	Intact	-
Commercial Structure Plaza del Mercado Quebradillas	193	0.3	mg/cm2	Negative	1	6/23/2022	12:14:40	R.Alejandro	526	Exterior	Exterior	Wall	Concrete	C	Gray	Intact	-
Commercial Structure Plaza del Mercado Quebradillas	194	0.1	mg/cm2	Negative	1	6/23/2022	12:14:59	R.Alejandro	526	Exterior	Exterior	Wall	Concrete	C	Gray	Intact	-
Commercial Structure Plaza del Mercado Quebradillas	195	0.2	mg/cm2	Negative	1	6/23/2022	12:15:37	R.Alejandro	526	Exterior	Exterior	Wall	Concrete	C	Gray	Intact	-



Commercial Structure Plaza del Mercado Quebradillas P.R

Company		Heuresis Corp.															
Model	PB001																
Type	XRF Lead Paint Analyzer																
Serial Num.	3008																
App Version	PB001-4.1-11																
Job Id	Reading #	Concentration	Units	Result	Level	Date	Time	Inspector	Job	Room	Structure	Component	Substrate	Wall	Color	Condition	Approx. Qty.
Commercial Structure Plaza del Mercado Quebradillas	196	0.2	mg/cm2	Negative	1	6/23/2022	12:16:04	R.Alejandro	526	Exterior	Exterior	Wall	Concrete	C	Gray	Intact	-
Commercial Structure Plaza del Mercado Quebradillas	197	0.2	mg/cm2	Negative	1	6/23/2022	12:16:30	R.Alejandro	526	Exterior	Exterior	Wall	Concrete	C	Gray	Intact	-
Commercial Structure Plaza del Mercado Quebradillas	198	0.1	mg/cm2	Negative	1	6/23/2022	12:17:06	R.Alejandro	526	Exterior	Exterior	Wall	Concrete	C	Gray	Intact	-
Commercial Structure Plaza del Mercado Quebradillas	199	0	mg/cm2	Negative	1	6/23/2022	12:17:27	R.Alejandro	526	Exterior	Exterior	Wall	Concrete	C	Gray	Intact	-
Commercial Structure Plaza del Mercado Quebradillas	200	0.3	mg/cm2	Negative	1	6/23/2022	12:18:38	R.Alejandro	526	Exterior	Exterior	Wall	Concrete	B	Gray	Intact	-
Commercial Structure Plaza del Mercado Quebradillas	201	0.2	mg/cm2	Negative	1	6/23/2022	12:19:10	R.Alejandro	526	Exterior	Exterior	Wall	Concrete	B	Gray	Intact	-
Commercial Structure Plaza del Mercado Quebradillas	202	0.1	mg/cm2	Negative	1	6/23/2022	12:19:29	R.Alejandro	526	Exterior	Exterior	Burglar Fence	Metal	B	Gray	Intact	-
Commercial Structure Plaza del Mercado Quebradillas	203	0	mg/cm2	Negative	1	6/23/2022	12:19:49	R.Alejandro	526	Exterior	Exterior	Burglar Fence	Metal	B	Gray	Intact	-
Commercial Structure Plaza del Mercado Quebradillas	204	0.1	mg/cm2	Negative	1	6/23/2022	12:20:30	R.Alejandro	526	Exterior	Exterior	Wall	Concrete	B	Gray	Intact	-
Commercial Structure Plaza del Mercado Quebradillas	205	0.1	mg/cm2	Negative	1	6/23/2022	12:20:52	R.Alejandro	526	Exterior	Exterior	Wall	Concrete	B	Gray	Intact	-
Commercial Structure Plaza del Mercado Quebradillas	206	0.3	mg/cm2	Negative	1	6/23/2022	12:21:11	R.Alejandro	526	Exterior	Exterior	Wall	Concrete	B	Gray	Intact	-
Commercial Structure Plaza del Mercado Quebradillas	207	0.3	mg/cm2	Negative	1	6/23/2022	12:21:55	R.Alejandro	526	Exterior	Exterior	Wall	Concrete	B	Gray	Intact	-
Commercial Structure Plaza del Mercado Quebradillas	208	0.2	mg/cm2	Negative	1	6/23/2022	12:22:16	R.Alejandro	526	Exterior	Exterior	Wall	Concrete	B	Gray	Intact	-
Commercial Structure Plaza del Mercado Quebradillas	209	0.2	mg/cm2	Negative	1	6/23/2022	12:22:41	R.Alejandro	526	Exterior	Exterior	Wall	Concrete	B	Gray	Intact	-
Commercial Structure Plaza del Mercado Quebradillas	210	0.2	mg/cm2	Negative	1	6/23/2022	12:23:02	R.Alejandro	526	Exterior	Exterior	Wall	Concrete	B	Gray	Intact	-



Commercial Structure Plaza del Mercado Quebradillas P.R

Company		Heuresis Corp.															
Model	PB001																
Type	XRF Lead Paint Analyzer																
Serial Num.	3008																
App Version	PB001-4.1-11																
Job Id	Reading #	Concentration	Units	Result	Level	Date	Time	Inspector	Job	Room	Structure	Component	Substrate	Wall	Color	Condition	Approx. Qty.
Commercial Structure Plaza del Mercado Quebradillas	211	0.2	mg/cm2	Negative	1	6/23/2022	12:23:46	R.Alejandro	526	Exterior	Exterior	Wall	Concrete	B	Gray	Intact	-
Commercial Structure Plaza del Mercado Quebradillas	212	0.3	mg/cm2	Negative	1	6/23/2022	12:24:08	R.Alejandro	526	Exterior	Exterior	Wall	Concrete	B	Gray	Intact	-
Commercial Structure Plaza del Mercado Quebradillas	213	0.2	mg/cm2	Negative	1	6/23/2022	12:24:28	R.Alejandro	526	Exterior	Exterior	Wall	Concrete	B	Gray	Intact	-
Commercial Structure Plaza del Mercado Quebradillas	214	0	mg/cm2	Negative	1	6/23/2022	12:25:28	R.Alejandro	526	Exterior	Exterior	Wall	Concrete	B	Gray	Intact	-
Commercial Structure Plaza del Mercado Quebradillas	215	0	mg/cm2	Negative	1	6/23/2022	12:26:18	R.Alejandro	526	Exterior	Exterior	Wall	Concrete	B	Gray	Intact	Duplicated
Commercial Structure Plaza del Mercado Quebradillas	216	0.1	mg/cm2	Negative	1	6/23/2022	12:28:00	R.Alejandro	526	Exterior	Exterior	Wall	Concrete	B	Gray	Intact	Duplicated
Commercial Structure Plaza del Mercado Quebradillas	217	0.2	mg/cm2	Negative	1	6/23/2022	12:28:26	R.Alejandro	526	Exterior	Exterior	Wall	Concrete	B	Gray	Intact	Duplicated
Commercial Structure Plaza del Mercado Quebradillas	218	0	mg/cm2	Negative	1	6/23/2022	12:28:49	R.Alejandro	526	Exterior	Exterior	Wall	Concrete	B	Gray	Intact	Duplicated
Commercial Structure Plaza del Mercado Quebradillas	219	0.1	mg/cm2	Negative	1	6/23/2022	12:29:14	R.Alejandro	526	Exterior	Exterior	Wall	Concrete	B	Gray	Intact	Duplicated
Commercial Structure Plaza del Mercado Quebradillas	220	0	mg/cm2	Negative	1	6/23/2022	12:29:42	R.Alejandro	526	Exterior	Exterior	Wall	Concrete	B	Gray	Intact	Duplicated
Commercial Structure Plaza del Mercado Quebradillas	221	0	mg/cm2	Negative	1	6/23/2022	12:30:07	R.Alejandro	526	Exterior	Exterior	Wall	Concrete	B	Gray	Intact	Duplicated
Commercial Structure Plaza del Mercado Quebradillas	222	0.1	mg/cm2	Negative	1	6/23/2022	12:30:45	R.Alejandro	526	Exterior	Exterior	Wall	Concrete	B	Gray	Intact	Duplicated
Commercial Structure Plaza del Mercado Quebradillas	223	0	mg/cm2	Negative	1	6/23/2022	12:31:16	R.Alejandro	526	Exterior	Exterior	Wall	Concrete	B	Gray	Intact	Duplicated
Commercial Structure Plaza del Mercado Quebradillas	224	0.1	mg/cm2	Negative	1	6/23/2022	12:31:44	R.Alejandro	526	Exterior	Exterior	Wall	Concrete	B	Gray	Intact	Duplicated
Commercial Structure Plaza del Mercado Quebradillas	225	1	mg/cm2	Positive	1	6/23/2022	12:32:09	R.Alejandro	526	Exterior	Calibration	-	-	-	-	-	-



Commercial Structure Plaza del Mercado Quebradillas P.R

Company		Heuresis Corp.															
Model	PB001																
Type	XRF Lead Paint Analyzer																
Serial Num.	3008																
App Version	PB00i-4.1-11																
Job Id	Reading #	Concentration	Units	Result	Level	Date	Time	Inspector	Job	Room	Structure	Component	Substrate	Wall	Color	Condition	Approx. Qty.
Commercial Structure Plaza del Mercado Quebradillas	226	1.1	mg/cm2	Positive	1	6/23/2022	12:32:31	R.Alejandro	526	Exterior	Calibration	-	-	-	-	-	-
Commercial Structure Plaza del Mercado Quebradillas	227	1	mg/cm2	Positive	1	6/23/2022	12:31:16	R.Alejandro	526	Exterior	Calibration	-	-	-	-	-	-



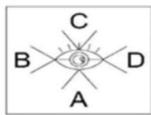
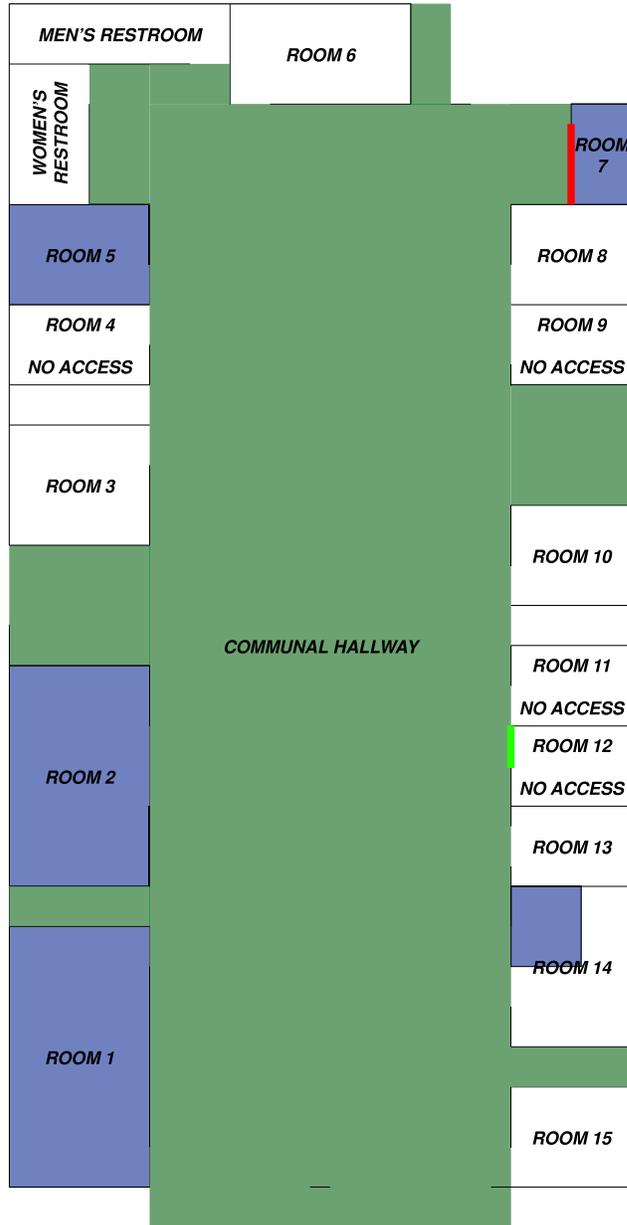
Attachment 5
LBP Diagram



Commercial structure Plaza del Mercado, Quebradillas

LBP DIAGRAM

- LEAD-GLAZED CERAMIC (BROWN FLOOR TILE)
- LEAD-GLAZED CERAMIC (GRAY FLOOR TILE)
- LBP POSITIVE (GRAY METAL DOOR & DOOR FRAME)
- LEAD-GLAZED CERAMIC (BROWN WALL TILE)



← main street →
Room View Key Plan
 not to scale



PR-2,

Quebradillas, PR 00678

Attachment 6
Representative Pictures\Photograph Log





A handwritten signature in black ink, appearing to be "RA", located below the logo.

Ramón E. Alejandro Andaluz
Nortol. Environmental & Occupational Safety, Inc.

COMMERCIAL STRUCTURE PLAZA DEL MERCADO, QUEBRADILLAS - LBP SURVEY PHOTO LOG

Year of construction not available at the moment of the inspection.

Thursday, June 23, 2022

Prepared For Ingenieros del Oeste CSP

PR-2, Quebradillas, PR 00678

13 Section Identified



FRONT VIEW:

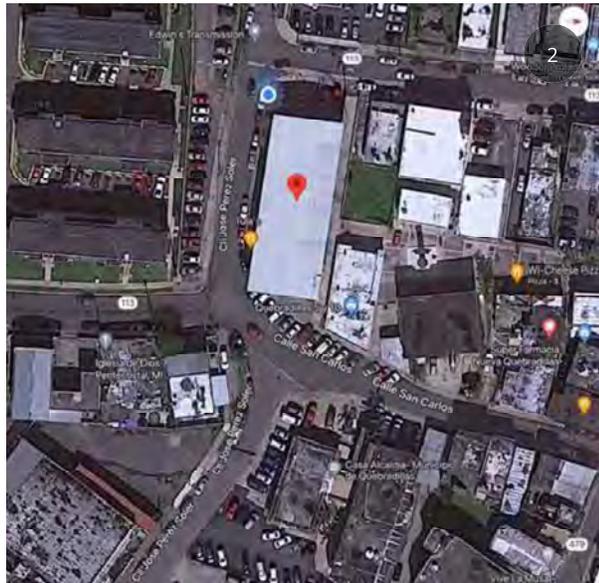
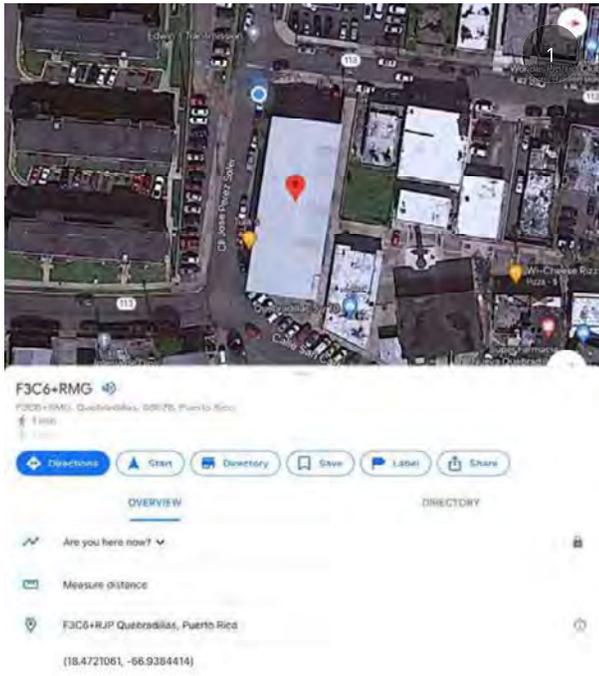
Section Completed: Yes

(18.4721061, -66.9384414)

LOCATION:

Section Completed: Yes

(18.4721061, -66.9384414)



EXTERIOR GENERAL VIEW SIDE A:

Section Completed: Yes



EXTERIOR GENERAL VIEW SIDE B:

Section Completed: Yes



EXTERIOR GENERAL VIEW SIDE C:

Section Completed: Yes



EXTERIOR GENERAL VIEW SIDE D:

Section Completed: Yes



EXTERIOR GENERAL VIEWS:

Section Completed: Yes



EXTERIOR GENERAL VIEWS: ROOF

Section Completed: Yes

Roof was inaccessible due to safety concerns and necessary equipment was not present.



INTERIOR GENERAL VIEWS:

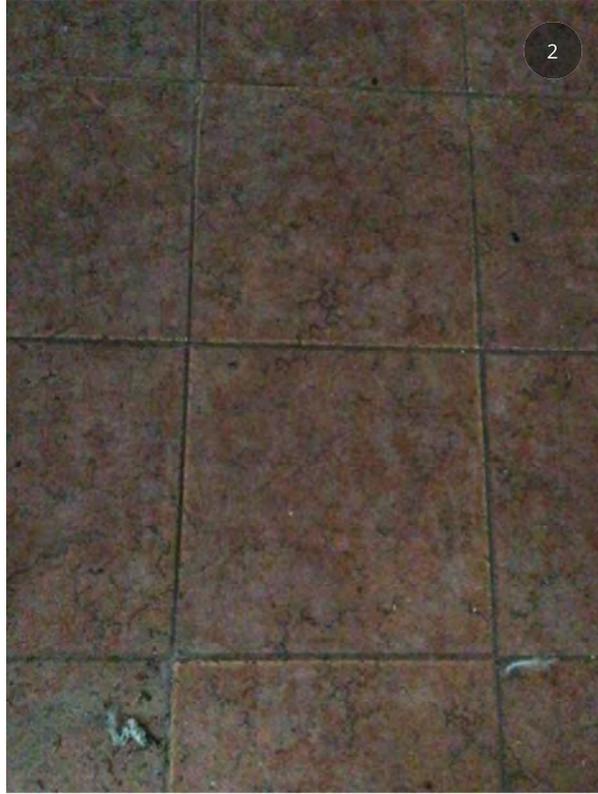
Section Completed: Yes



LBP DETECTED? ROOM 1, 2, 5, 7 & 14

Section Completed: Yes

Interior, Readings #11, #21, #67, #84 & #129, brown lead-glazed ceramic floor tile, 1.0 - 5.5 mg/cm². (Qty. 918 S.F. Approx.)



LBP DETECTED? ROOM 7

Section Completed: Yes

Interior, Reading #87 , brown lead-glazed ceramic wall tile, Side B, 1.0 mg/cm². (Qty. 24 S.F. Approx.)



LBP DETECTED? ROOM 12

Section Completed: Yes

Interior, Readings #113 & #114 , gray metal door & door frame, 1.7 & 1.5 mg/cm². (Qty. 1 unit.)



LBP DETECTED? COMMUNAL HALLWAY

Section Completed: Yes

Interior, Readings #147 - #149 , gray lead-glazed ceramic floor tile, 3.4 - 4.9 mg/cm². (Qty. 7,000 S.F. Approx.)



Attachment 7
XRF Performance Characteristic Sheet



Performance Characteristic Sheet

EFFECTIVE DATE: December 1, 2015

MANUFACTURER AND MODEL:

Make: *Heuresis*
Models: *Model Pb200i*
Source: *⁵⁷Co, 5 mCi (nominal – new source)*

FIELD OPERATION GUIDANCE

OPERATING PARAMETERS:

Action Level mode

XRF CALIBRATION CHECK LIMITS:

0.8 to 1.2 mg/cm ² (inclusive)

SUBSTRATE CORRECTION:

Not applicable

INCONCLUSIVE RANGE OR THRESHOLD:

ACTION LEVEL MODE READING DESCRIPTION	SUBSTRATE	THRESHOLD (mg/cm²)
Results not corrected for substrate bias on any substrate	Brick	1.0
	Concrete	1.0
	Drywall	1.0
	Metal	1.0
	Plaster	1.0
	Wood	1.0

BACKGROUND INFORMATION

EVALUATION DATA SOURCE AND DATE:

This sheet is supplemental information to be used in conjunction with Chapter 7 of the HUD *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing* ("HUD Guidelines"). Performance parameters shown on this sheet are calculated using test results on building components in the HUD archive. Testing was conducted on 146 test samples in November 2015, with two separate instruments running software version 2.1-2 in Action Level test mode. The actual source strength of each instrument on the day of testing was approximately 2.0 mCi; source ages were approximately one year.

OPERATING PARAMETERS

Performance parameters shown in this sheet are applicable only when properly operating the instrument using the manufacturer's instructions and procedures described in Chapter 7 of the HUD Guidelines.

XRF CALIBRATION CHECK:

The calibration of the XRF instrument should be checked using the paint film nearest 1.0 mg/cm² in the NIST Standard Reference Material (SRM) used (e.g., for NIST SRM 2579, use the 1.02 mg/cm² film).

If the average (rounded to 1 decimal place) of three readings is outside the acceptable calibration check range, follow the manufacturer's instructions to bring the instrument into control before XRF testing proceeds.

SUBSTRATE CORRECTION VALUE COMPUTATION:

Chapter 7 of the HUD Guidelines provides guidance on correcting XRF results for substrate bias. Supplemental guidance for using the paint film nearest 1.0 mg/cm² for substrate correction is provided:

XRF results are corrected for substrate bias by subtracting from each XRF result a correction value determined separately in each house for single-family housing or in each development for multifamily housing, for each substrate. The correction value is an average of XRF readings taken over the NIST SRM paint film nearest to 1.0 mg/cm² at test locations that have been scraped bare of their paint covering. Compute the correction values as follows:

Using the same XRF instrument, take three readings on a bare substrate area covered with the NIST SRM paint film nearest 1 mg/cm². Repeat this procedure by taking three more readings on a second bare substrate area of the same substrate covered with the NIST SRM.

Compute the correction value for each substrate type where XRF readings indicate substrate correction is needed by computing the average of all six readings as shown below.

For each substrate type (the 1.02 mg/cm² NIST SRM is shown in this example; use the actual lead loading of the NIST SRM used for substrate correction):

$$\text{Correction value} = (1\text{st} + 2\text{nd} + 3\text{rd} + 4\text{th} + 5\text{th} + 6\text{th Reading})/6 - 1.02 \text{ mg/cm}^2$$

Repeat this procedure for each substrate requiring substrate correction in the house or housing development.

EVALUATING THE QUALITY OF XRF TESTING:

Randomly select ten testing combinations for retesting from each house or from two randomly selected units in multifamily housing.

Conduct XRF re-testing at the ten testing combinations selected for retesting.

Determine if the XRF testing in the units or house passed or failed the test by applying the steps below. Compute the Retest Tolerance Limit by the following steps:

Determine XRF results for the original and retest XRF readings. Do not correct the original or retest results for substrate bias. In single-family and multi-family housing, a result is defined as a single reading. Therefore, there will be ten original and ten retest XRF results for each house or for the two selected units.

Calculate the average of the original XRF result and the retest XRF result for each testing combination.

Square the average for each testing combination.

Add the ten squared averages together. Call this quantity C.

Multiply the number C by 0.0072. Call this quantity D.

Add the number 0.032 to D. Call this quantity E.

Take the square root of E. Call this quantity F.

Multiply F by 1.645. The result is the Retest Tolerance Limit.

Compute the average of all ten original XRF readings.

Compute the average of all ten re-test XRF readings.

Find the absolute difference of the two averages.

If the difference is less than the Retest Tolerance Limit, the inspection has passed the retest. If the difference of the overall averages equals or exceeds the Retest Tolerance Limit, this procedure should be repeated with ten new testing combinations. If the difference of the overall averages is equal to or greater than the Retest Tolerance Limit a second time, then the inspection should be considered deficient.

Use of this procedure is estimated to produce a spurious result approximately 1% of the time. That is, results of this procedure will call for further examination when no examination is warranted in approximately 1 out of 100 dwelling units tested.

TESTING TIMES:

In the Action Level paint test mode, the instrument takes the longest time to complete readings close to the Federal standard of 1.0 mg/cm². The table below shows the mean and standard deviation of actual reading times by reading level for paint samples during the November 2015 archive testing. The tested instruments reported readings to one decimal place. No significant differences in reading times by substrate were observed. These times apply only to instruments with the same source strength as those tested (2.0 mCi). Instruments with stronger sources will have shorter reading times and those with weaker sources, longer reading times, than those in the table.

Mean and Standard Deviation of Reading Times in Action Level Mode by Reading Level		
Reading (mg/cm²)	Mean Reading Time (seconds)	Standard Deviation (seconds)
< 0.7	3.48	0.47
0.7	7.29	1.92
0.8	13.95	1.78
0.9 – 1.2	15.25	0.66
1.3 – 1.4	6.08	2.50
≥ 1.5	3.32	0.05

CLASSIFICATION OF RESULTS:

XRF results are classified as **positive** if they are **greater than or equal** to the stated threshold for the instrument (1.0 mg/cm²), and *negative* if they are *less than* the threshold.

DOCUMENTATION:

A report titled *Methodology for XRF Performance Characteristic Sheets* (EPA 747-R-95-008) provides an explanation of the statistical methodology used to construct the data in the sheets, and provides empirical results from using the recommended inconclusive ranges or thresholds for specific XRF instruments. The report may be downloaded at <http://www2.epa.gov/lead/methodology-xrf-performance-characteristic-sheets-epa-747-r-95-008-september-1997>.

This XRF Performance Characteristic Sheet (PCS) was developed by QuanTech, Inc., under a contract with the XRF manufacturer.



www.nortolpr.com | info@nortolpr.com | 787.420.0220
PO Box 366457, San Juan, PR 00936-6457



GOVERNMENT OF PUERTO RICO
DEPARTMENT OF HOUSING

Exhibit 7I

Memorandum to File

Date: December 18, 2024

Sol V Rosa

From: Sol V Rosa Ramos
Tetra Tech Inc. / Environmental Engineer
CDBG-DR Program
City Revitalization Program
Puerto Rico Department of Housing

Project: Demolición y Construcción Plaza del Mercado (PR-CRP-000521)

Re: Justification for the Infeasibility and Impracticability of Radon Testing

After reviewing Application Number PR-CRP-000521 under the City Revitalization Program, administered by the Puerto Rico Department of Housing (**PRDOH**), to complete the property's contamination analysis in accordance with 24 C.F.R. § 50.3(i) and 24 C.F.R. § 58.5(i), we have determined that testing the property's radon levels is infeasible and impracticable.

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

- As required by the CPD Notice 23-103, the scientific data reviewed in lieu of testing must consist of a minimum of ten documented test results over the previous ten years. If there are less than ten documented results over this period, it is understood that there is a lack of scientific data. The latest report for radon testing in Puerto Rico was prepared in 1995 by the U.S. Department of the Interior in Cooperation with the U.S. Environmental Protection Agency. No other completed studies and reports on radon testing are available in Puerto Rico.
- There is no available science-based or state-generated information for Puerto Rico for the last ten years that can be used to determine whether the project site is in a high-risk area. The Department of Health and Human Services, Centers for Disease Control and Prevention (**CDC**), National Environmental Public Health Tracking, and Radon Testing map do not include Puerto Rico data.

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

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

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

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



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 Poverito, Oleg@epa.gov
Mr. Matthew Lantia, lantia.matthew@epa.gov



August 20, 2024

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

Via email: silvinia.cancelos@upr.edu

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Sincerely,

William O. Rodríguez Rodríguez, Esq.
Secretary

CC: Dr. Carlos Marín, carlos.marin@upr.edu



August 20, 2024

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

Via email: OIA@cdc.gov

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Sincerely,

William O. Rodriguez Rodriguez, Esq.
Secretary



August 20, 2024

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

Via email: anais.rodriguez@dmo.pr.gov

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Sincerely,

William O. Rodriguez Rodriguez, Esq.
Secretary

CC: Mr. Luis Márquez, secretariadmo@dmo.pr.gov
Eng. Amarilys Rosario, aire@dmo.pr.gov
Ms. Eldi Ortega, ortega@dmo.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

Via email: drccarlos.mellado@salud.pr.gov

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Barbosa Ave. #506, Building Juan C. Cordero Davila, Rio Piedras, PR 00910 | PO Box 21265 San Juan, PR 00928-1365
Tel (787) 274-2527 | www.cdmhpr.gov

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

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Sincerely,

William C. 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
3914 Sunset Ridge Road
Raleigh, NC 27607

Via email: hswyers@usgs.gov

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

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Sincerely,

William C. 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- Radon 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>; Silvana Cancelos Mancini <silvana.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: Silvana Cancelos Mancini <silvana.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 dejarte saber que recibimos su correo el 21 de agosto al igual que el de Maritza Rosa el pasado 4 de septiembre. Ya las personas involucradas de EPA, junto conmigo y el Dr. Marín estamos al tanto del asunto y estamos trabajando para poder enviarles la información.

Atentamente

Silvana 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: silvana.cancelos@upr.edu



Bubble Dynamics Lab
University of Puerto Rico - Mayaguez



EPA REGION 2
CARIBBEAN ENVIRONMENTAL PROTECTION DIVISION

September 23, 2024

VIA EMAIL

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

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

Dear Honorable Secretary Rodriguez Rodriguez:

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

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

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

ventilation allow for soil-gas radon to enter and concentrate within the structure.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 185 GUAYNABO, PR 00968

2

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**

Carmen R. Guerrero Pérez
Director

Digitally signed by
CARMEN GUERRERO PEREZ
Date: 2024.09.23 09:41:39
-0400

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: cesarrodriiguez@drna.pr.gov
Marita Rosa Olivares: maritzarosaolivares@drna.pr.gov

Exhibit 8 Critical Habitat Map

PR-CRP-000521 Demolición y Construcción Plaza del Mercado
Jose Perez Soler St and San Carlos St, Quebradillas, PR 00678
Coordinates 18.47210, -66.93844

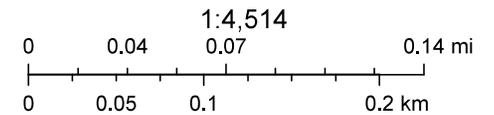


 Project Site

 Critical Habitat - Polygon Features - Final



Maxar



October 10, 2024

**Exhibit 8A
Endangered Species
Documentation**

Environmental Assessment CDBG-DR
"Demolición y Construcción Plaza de Mercado", Quebradillas, PR
PR-CRP-000521



Transmittal Letter

March 6, 2024

Caribbean Ecological Services Field Office
U.S. Fish and Wildlife Service
P.O. Box 491
Boquerón, Puerto Rico 00622
Email: caribbean_es@fws.gov



Based on the information provided, we determined the project proposed qualifies for the blanket clearance letter. Nevertheless, if the project is modified this office should be contacted concerning the need for the initiation of consultation under section 7 of Endangered Species Act of 1973.

Reviewer **DAMARIS ROMAN RUIZ** Digitally signed by DAMARIS ROMAN RUIZ Date: 2024.03.08 10:44:12 -04'00'

ROBERT TAWES Digitally signed by ROBERT TAWES Date: 2024.03.10 17:21:41 -04'00'
Acting Caribbean ES Field Supervisor

**RE: USFWS Endangered Species Act Certifications
City Revitalization Program
February 2024**

We are submitting the following Self-Certifications for projects under the CDBG-DR City Revitalization Program. Attached are included the Self-Certifications that certify that the projects are in compliance and are not likely to adversely affect federally-listed species.

The following table includes the projects that are in compliance with the Blanket Clearance Letter for the Endangered Species act of 1973, as amended, and the Fish and Wildlife Coordination Act.

Project Number	Project Name
PR-CRP-000338	Mejoras a la Plaza de la Identidad
PR-CRP-000341	Remodelación Plaza Angel Mislán
PR-CRP-000521	Demolición y Construcción Plaza del Mercado
PR-CRP-000670	Centro Multiuso Distrito Moca
PR-CRP-000742	Plaza de Recreo
PR-CRP-000744	Centro de Desarrollo Artístico y Cultural de Sabana Grande
PR-CRP-000807 & PR-CRP-001111	Mejoras a Plaza Pública y Plaza del Mercado, Vieques
PR-CRP-000892	Lajas Activity Center
PR-CRP-000902	Elderly Service Center
PR-CRP-001011	Mejoras al Estacionamiento Público del Municipio de Naguabo

For more information, please contact the Permits and Environmental Compliance Division at environmentcdbg@vivienda.pr.gov or at (787)274.2527 ext. 4320.

Sincerely,

Permits and Environmental Compliance Division
Office of Disaster Recovery



Self-Certification

<http://www.fws.gov/caribbean/ES/Index.html>

Endangered Species Act Certification

The U.S. Fish and Wildlife Service, Caribbean Ecological Services Field Office developed a Blanket Clearance Letter in compliance with Endangered Species Act of 1973, as amended, and the Fish and Wildlife Coordination Act for federally funded projects.

The Service determined that projects in compliance with the following criteria are not likely to adversely affect federally-listed species.

Puerto Rico Department of Housing (PRDOH) certifies that the following project **“Demolición y Construcción Plaza del Mercado” PR-CRP-000521**, consisting of the demolition of the existing structure of approximately 9,131 square feet, to make way for a new construction made of 6 small sales outlets "kiosks", bathroom facilities, reforestation and green areas, a fountain at facility entrance, fixed mobiliary, construction of sidewalks and access ramps in compliance with ADA regulations; located on José Pérez Soler Street, with San Carlos Street, Quebradillas, PR 00678, coordinates 18.472044, -66.938416, complies with:

Check	Project Criteria
<input type="checkbox"/>	1. Street resurfacing.
<input type="checkbox"/>	2. Construction of gutters and sidewalks along existing roads.
<input type="checkbox"/>	3. Reconstruction or emergency repairs of existing buildings, facilities and homes.
<input checked="" type="checkbox"/>	4. Rehabilitation of existing occupied single-family homes, and buildings; provided that equipment storage or staging areas are not located on vacant property harboring a wetland and/or forested vegetation and that the lighting associated to the new facilities is not visible directly or indirectly from a beach.
<input checked="" type="checkbox"/>	5. Demolition of dilapidated single-family homes or buildings; provided that the demolition debris is disposed in certified receiving facilities; equipment storage or staging areas are not located on vacant property harboring a wetland and/or forested vegetation.

<input checked="" type="checkbox"/>	6. Rebuilding of demolished single-family homes or buildings, provided that the new construction is within the existing footprint of the previous structure and/or within pre-existing grassed or paved areas, and that the lighting associated to the new facilities are not visible directly or indirectly from a beach.
<input type="checkbox"/>	7. Activities within existing Right of Ways (ROWs) of roads, bridges and highways, when limited to actions that do not involve cutting native vegetation or mayor earth moving; and are not located within, or adjacent to, drainages, wetlands, or aquatic systems. These activities include the installation of potable water and sanitary pipelines.
<input type="checkbox"/>	8. Improvements to existing recreational facilities, including the installation of roofs to existing basketball courts, provided that the lighting associated to the facilities are not visible directly or indirectly from the beach.
<input type="checkbox"/>	9. Construction of electric underground systems in existing towns and communities, provided that the property is not a wetland area and the lighting associated to the facilities are not visible directly or indirectly from the beach.
<input type="checkbox"/>	10. Construction of facilities on vacant properties covered with grasses in urban areas, provided that the lighting associated to the facilities are not visible directly or indirectly from the beach.
<input type="checkbox"/>	11. Construction of houses, buildings or acquiring lands in urban areas covered by grass for relocation of low-income families and/or facilities that have been affected by weather conditions.



Ángel G. López-Guzmán
Deputy Director

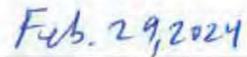
Permits and Environmental Compliance Division

Office of Disaster Recovery

Address: P.O. Box 21365 San Juan, PR 00928

Telephone and Ext: 787-274-2527 ext. 4320

Email: environmentcdbg@vivienda.pr.gov



Date

Attachment 1

Maps

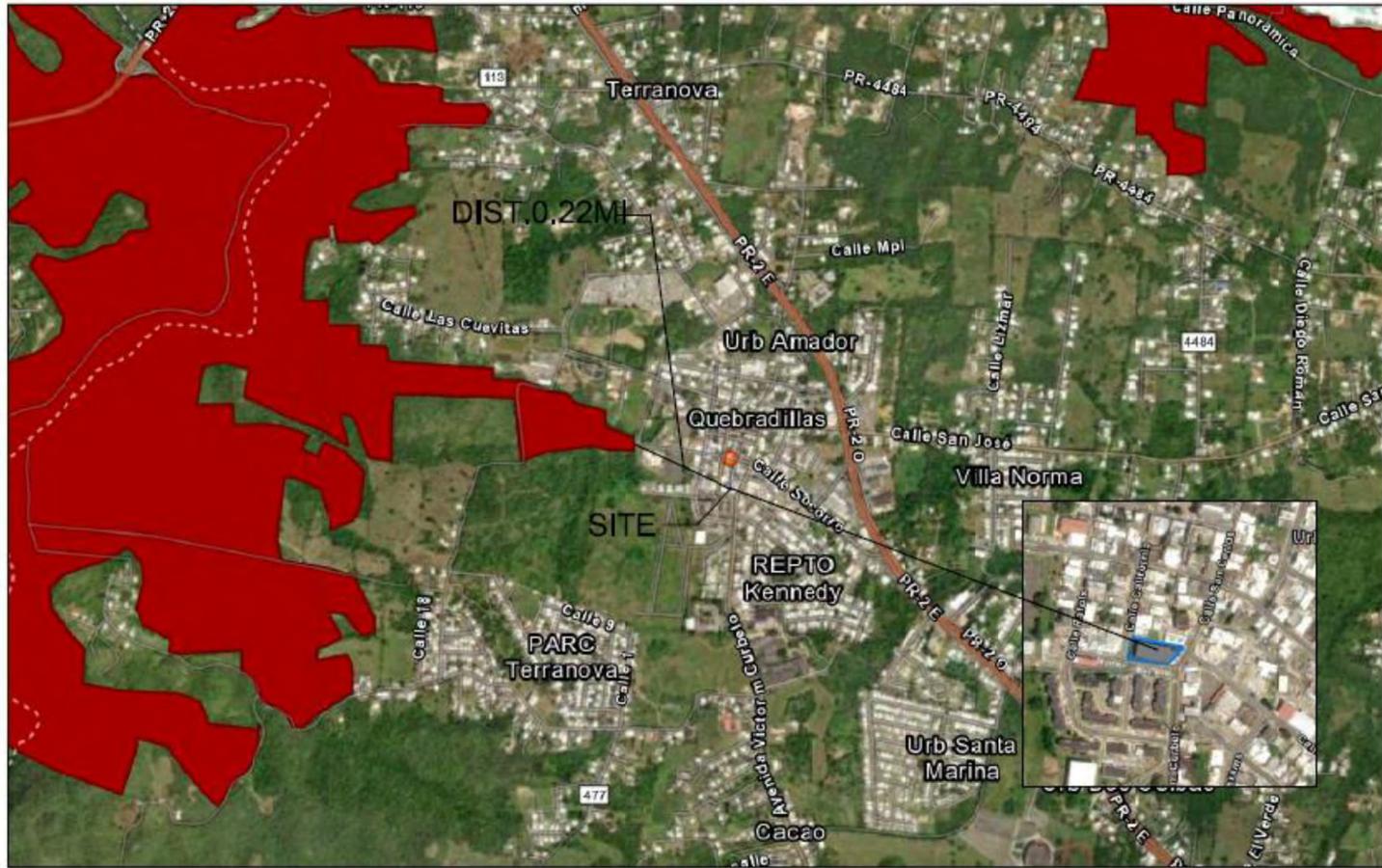


PROJECT MAP

PR-CRP-000521

**Plaza para usos Múltiples,
Beningno Pérez Soler,
Quebradillas, PR**





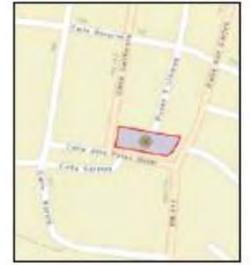
July 5, 2023

 Project 1

 Critical Habitat - Polygon Features - Final

1:18,056
 0 0.13 0.25 0.5 mi
 0 0.25 0.45 0.9 km
Esri Community Maps Contributors, Esri, HERE, Garmin, Foursquare, Swire, GeoTechnology, Inc, METUNASA, USGS, NPS, US Census

MUNICIPIO DE QUEBRADILLAS



CRITICAL HABITAT

Ingenieros del Oeste C.S.P.

Calle José de Diego #65, Aguadilla
 PO BOX 4448 Aguadilla, P.R. 00605
 Tel/Fax: 787 891-8256
 ingenierosdeloestecsp@gmail.com



PR-CRP-000521

PROJECT:

**Plaza para usos Múltiples, Benigno
 Perez Soler, Quebradillas, PR**

SELF CERTIFICATION



July 6, 2023

Wetlands_Alaska

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

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

National Wetlands Inventory (NWI)
This page was produced by the NWI mapper

MUNICIPIO DE QUEBRADILLAS



WETLANDS AND RIPARIAN

Ingenieros del Oeste C.S.P.

Calle José de Diego #65, Aguadilla
PO BOX 4448 Aguadilla, P.R. 00605
Tel/Fax: 787 891-8256
ingenierosdeloestecsp@gmail.com



PR-CRP-000521

PROJECT:

Plaza para usos Múltiples, Benigno
Perez Soler, Quebradillas, PR

SELF CERTIFICATION

Attachment 2

IPaC Report

IPaC resource list

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

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

Location

Quebradillas County, Puerto Rico



Local office

Caribbean Ecological Services Field Office

☎ (787) 834-1600

📠 (787) 851-7440

✉ CARIBBEAN_ES@FWS.GOV

MAILING ADDRESS

Post Office Box 491

Boqueron, PR 00622-0491

PHYSICAL ADDRESS

Office Park I

State Road #2 Km 156.5, Suite 303}

Mayaguez, PR 00680

NOT FOR CONSULTATION

Endangered species

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

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

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

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

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

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

Species and critical habitats under the sole responsibility of NOAA Fisheries are not shown on this list. Please contact [NOAA Fisheries](#) for [species under their jurisdiction](#).

1. Species listed under the Endangered Species Act are threatened or endangered; IPaC also shows species that are candidates, or proposed, for listing. See the [listing status page](#) for more information. IPaC only shows species that are regulated by USFWS (see FAQ).
2. [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.

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

Reptiles

NAME	STATUS
Puerto Rican Boa <i>Chilabothrus inornatus</i> Wherever found No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/6628	Endangered

Insects

NAME	STATUS
Puerto Rican Harlequin Butterfly <i>Atlantea tulita</i> Wherever found There is final critical habitat for this species. Your location does not overlap the critical habitat. https://ecos.fws.gov/ecp/species/9005	Threatened

Critical habitats

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

There are no critical habitats at this location.

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

Bald & Golden Eagles

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

Additional information can be found using the following links:

- Eagle Management <https://www.fws.gov/program/eagle-management>
- Measures for avoiding and minimizing impacts to birds <https://www.fws.gov/library/collections/avoiding-and-minimizing-incident-take-migratory-birds>
- Nationwide conservation measures for birds <https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf>

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

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

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

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

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

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

What if I have eagles on my list?

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

Migratory birds

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

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

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

Additional information can be found using the following links:

- Birds of Conservation Concern <https://www.fws.gov/program/migratory-birds/species>
- Measures for avoiding and minimizing impacts to birds <https://www.fws.gov/library/collections/avoiding-and-minimizing-incident-take-migratory-birds>
- Nationwide conservation measures for birds <https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf>

The [data](#) in this location indicates there are no migratory [birds of conservation concern](#) expected to occur in this area.

There may be migratory birds in your project area, but we don't have any survey data available to provide further direction. For additional information, please refer to the links above for recommendations to minimize impacts to migratory birds or contact your local FWS office.

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

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

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

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

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

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

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

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

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

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

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

What are the levels of concern for migratory birds?

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

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

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

Details about birds that are potentially affected by offshore projects

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

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

What if I have eagles on my list?

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

Proper Interpretation and Use of Your Migratory Bird Report

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

Facilities

National Wildlife Refuge lands

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 at this location.

Fish hatcheries

There are no fish hatcheries at this location.

Wetlands in the National Wetlands Inventory (NWI)

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](#).

Wetland information is not available at this time

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

Data limitations

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

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

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

Data exclusions

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

Data precautions

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

NOT FOR CONSULTATION

Attachment 3

Supporting Documents



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

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

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

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



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

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

Conservation Measures:

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

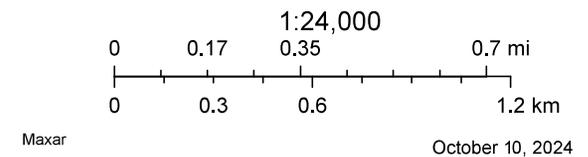
7. If a PR boa is found within any of the working or construction areas, activities should stop at that area and information recorded (see #6). **Do not capture the boa.** If boas need to be moved out of harm's way, designated personnel shall immediately contact the Puerto Rico Department of Natural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

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

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



-  Project Buffer (1 mile)
-  Project Site



Soil Map—Mayaguez Area, Puerto Rico Western Part
(PR-CRP-000521 Demolición y Construcción Plaza del Mercado)

Coordinates 18.47210, -66.93844



Map Scale: 1:1,500 if printed on A landscape (11" x 8.5") sheet.



Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 19N WGS84



MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

Special Point Features



Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow



Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot



Spoil Area



Stony Spot



Very Stony Spot



Wet Spot



Other



Special Line Features

Water Features



Streams and Canals

Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

Background



Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Mayaguez Area, Puerto Rico Western Part
Survey Area Data: Version 20, Sep 10, 2024

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jan 23, 2022—Mar 1, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
UI	Urban land	0.3	100.0%
Totals for Area of Interest		0.3	100.0%

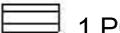
Exhibit 11 ABFE Map

PR-CRP-000521 Demolición y Construcción Plaza del Mercado

José Perez Soler St and San Carlos St, Pueblo Ward, Quebradillas, PR 00678
Coordinates 18.47210, -66.93844



Legend:

- | | | | | | | | |
|---|-------------------|---|-----------|---|---|---|--------------|
|  | 1 PCT Cauce Mayor |  | AE |  | VE |  | Project Site |
|  | Zona Inundable |  | AO |  | X (0.2% Probabilidad Anual de Inundación) | | |
|  | A |  | A Costera |  | Cuerpos de Agua | | |

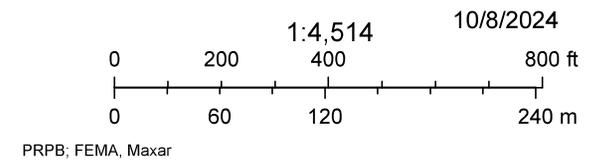


Exhibit 12
Historic Preservation
Documentation

Environmental Assessment CDBG-DR
"Demolición y Construcción Plaza de Mercado", Quebradillas, PR
PR-CRP-000521



GOVERNMENT OF PUERTO RICO

STATE HISTORIC PRESERVATION OFFICE

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

Wednesday, June 26, 2024

Lauren B Poche

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

SHPO-CF-06-04-24-10 PR-CRP-000521 (Quebradillas), Plaza del Mercado Project

Dear Ms. Poche,

We acknowledge receipt of the archaeological monitoring work plan submitted on June 4, 2024, for the case mentioned above. The plan is deemed acceptable, and we concur with its implementation.

If you have any questions concerning our comments, do not hesitate to contact our Office.

Sincerely,

Carlos A. Rubio Cancela

State Historic Preservation Officer

CARC/GMO/OJR



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

6/4/2024

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

Puerto Rico Disaster Recovery, CDBG-DR City Revitalization (City-Rev) Program

Re: SHPO 04-11-24-01, PR-CRP-000521: Demolición y Construcción Plaza del Mercado Project, Quebradillas, Puerto Rico – Archaeology Monitoring Work Plan Submission

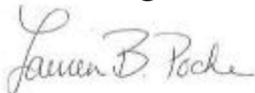
Dear Architect Rubio Cancela,

On behalf of the Puerto Rico Department of Housing (PRDOH), we thank you for your letter dated May 13, 2024, in response to the submission of documentation for PR-CRP-000521. The Demolición y Construcción Plaza del Mercado Project. The letter stated your office had determined your records supported the finding of no adverse effect for the proposed undertaking, pursuant to the following conditions as proposed by PRDOH: Archaeological monitoring should be conducted during all ground-disturbing activities, and the preparation and submission of an archaeological monitoring work plan for review and concurrence.

As such, we are submitting the requested Work Plan for an Archaeological Monitoring Inspection for the Demolición y Construcción Plaza del Mercado Project (PR-CRP-000521/SHPO 04-11-24-01) prepared by Archaeologist Sharon Meléndez Ortiz for your review and concurrence that the implementation of this plan is appropriate for this undertaking.

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

Kindest regards,

A handwritten signature in cursive script that reads 'Lauren B. Poche'.

Lauren Bair Poche. M.A.
Architectural Historian, EHP Senior Manager
Attachments



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

PRDOH CDBG-DR CRP PROGRAM
Demolición y construcción Plaza del Mercado
Quebradillas, Puerto Rico
PR-CRP-000521 / SHPO-CF-04-11-24-01

Archaeological Monitoring Plan



Prepared by:

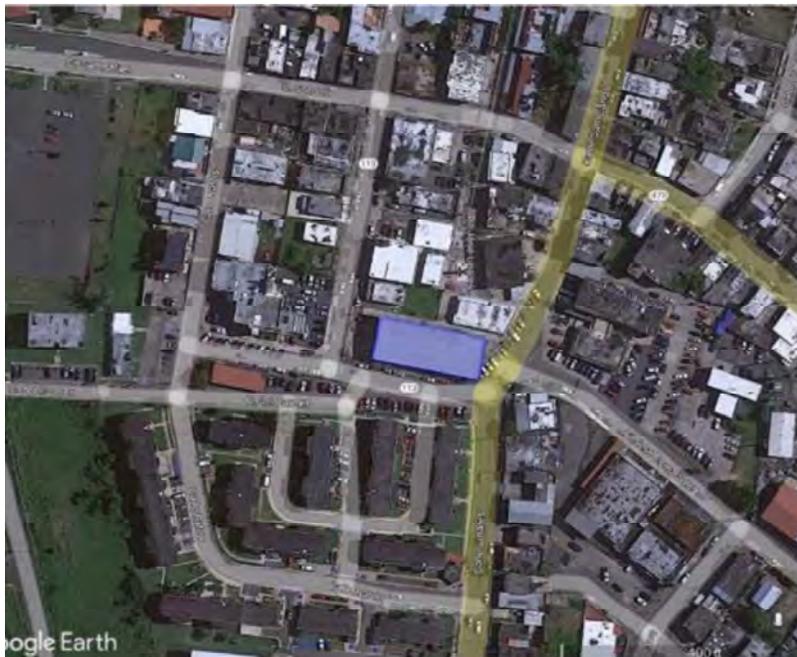
Sharon Meléndez Ortiz
Archaeologist – **Horne PR**

May 30, 2024

I. PREAMBLE

The Municipality of Quebradillas is seeking Community Development Block Grant disaster recovery funds financed by the federal Department of Housing and Urban Development due to damage received by the 2017 Hurricanes Irma and Maria. The Puerto Rico Department of Housing (PRDOH) has established an Agreement between PRDOH and the Municipality of Quebradillas for the City Revitalization Program as part of the Community Development Block Grant for Disaster Recovery (CDBG-DR) Program. The municipality proposes the demolition of the existing Plaza del Mercado and the construction of new kiosks, green areas, and benches. The project is located at the intersection of José Pérez Soler St. and San Carlos St. within the Traditional Urban Center of Quebradillas (Figure 1).

Figure 1: Project Location in the Satellite Image
(from Dilan and Alvarado Muñoz 2023: 13)



The Puerto Rico State Historic Preservation Office (PRSHPO), in a letter dated May 13, 2024, concurred with a finding of No Adverse Effect for this undertaking conditioned to the implementation of an archaeological monitoring plan during ground disturbing activities.

The objectives of this archaeological monitoring and protection plan are: (1) to establish the protocol to be followed in archaeological monitoring; (2) to establish the protocol to be followed if previously unknown resources are identified; (3) to establish the protocol to be followed if there are any unexpected or previously unanticipated adverse effects; (4) to locate, evaluate and document archaeological resources during project development; (5) to recover as much archaeological information as possible during excavation and construction; (6) to conserve and enhance the value of the archaeological resources located and documented; and (7) in the event that the archaeological resource cannot be conserved in situ, to conserve it through documentation (preservation by record).

This document complies with applicable federal and state laws, regulations, and guidelines, and is consistent with the Secretary of the Interior's (SOI) Guidelines for Archeological Documentation, the

Advisory Council on Historic Preservation's (ACHP) recommendations on the recovery of significant information from archaeological sites as updated in 2009, and Regulation #8932 of the Institute of Puerto Rican Culture (ICP). The plan was prepared by archaeologist Sharon Meléndez Ortiz, who meets the Professional Qualifications Standards set forth in 36 CFR Part 61 and is listed as an archaeologist by the Council for the Protection of Earth Archaeological Heritage (Council) to conduct Phase I, Phase II, and Phase III studies.

Figure 2: Project Location in the 2018 USGS Topographic Quadrangle



This scope of work is divided into six (6) sections and one (1) appendix. The section following this preamble includes the proposed construction works. In the third section the archaeological potential of the project area is discussed. The fourth section provides a detailed description of the archaeological monitoring procedure to be carried out before, during and after the construction works. Section V includes the professional qualifications of the team that will implement this monitoring plan and the last section includes the references cited. The plan closes with an appendix with a model of a monitoring daily activity sheet.

II. PROJECT DESCRIPTION

The information below is taken from the Section 106 NHPA Effect Determination Form completed by Heidi J. Dilan and Fernando Alvarado Muñoz (2023, revised in 2024).

The project aims to revitalize the existing Plaza de Mercado Benigno Pérez Soler located in the Municipality of Quebradillas through a comprehensive demolition and new construction initiative.

The Demolition Phase includes the following activities:

- Demolition of the main existing 848 m² (9,131.36 sq. ft.) structure, that is composed of ten reinforced concrete columns, is connected by a series of reinforced concrete beams, and is roofed with steel beams and galvanized purlin-type structures covered by galvanized metal plates.

Photo 1: West (left) and East (right) side of Plaza de Mercado (Dilan and Alvarado 2023: 26 and 27)

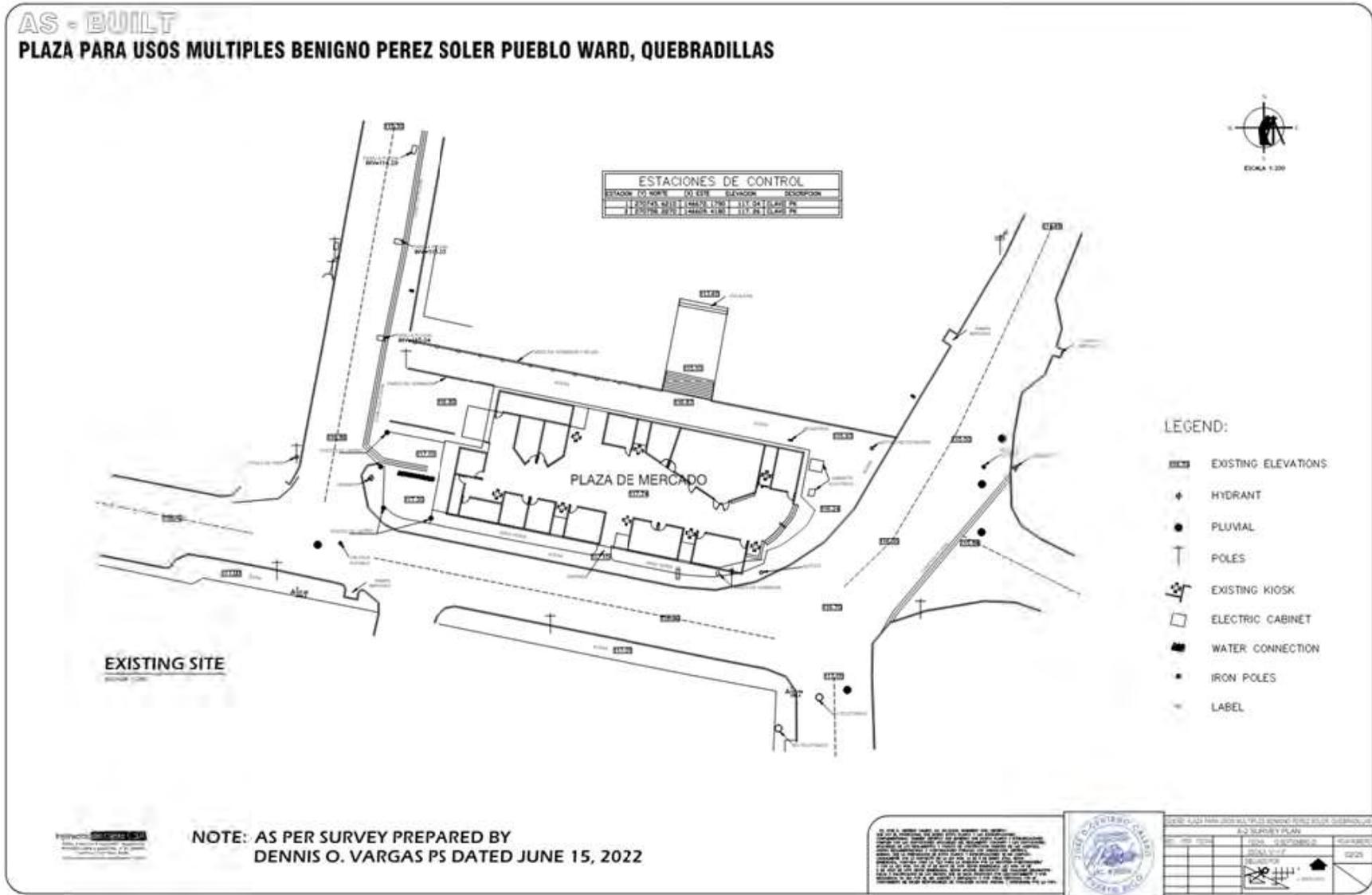


- Removal of approximately ten smaller concrete, block, and wood structures, that are located within the main structure and were established alongside the original construction from circa 1983.

Photo 2: View of smaller structure located within the main structure (Dilan and Alvarado 2023: 28)



Figure 3: As-Built Plan (Ingenieros del Oeste 2023)



The new construction phase of the project will cover an area of 926 m² (10,000 sq. ft.). It includes the construction of six (6) small commercial "kiosks," modern sanitary facilities, reforested green spaces, pedestrian pathways with disability-friendly ramps, inviting entrance features including a fountain, and seating areas with benches (Figure 4).

Site preparation includes excavation of up to 1.2 to 1.8 m (4-6 feet) deep and installation of underground pipelines for water, sanitary and storm sewer, electricity, among other services. This involves linear trenching in sidewalk and pathway areas.

The new construction phase includes the following activities:

- Construction of 6 "kiosks" for commercial purposes.
- Installation of modern sanitary facilities.
- Introduction of green spaces, reforestation, and landscaped areas.
- Creation of pedestrian pathways, including ADA ramps.
- Incorporation of an inviting entrance with a fountain feature.
- Placement of benches for seating.

III. ARCHAEOLOGICAL POTENTIAL AND HISTORIC PROPERTIES

The information below is taken from the Section 106 NHPA Effect Determination Form completed by Heidi J. Dilan and Fernando Alvarado Muñoz (2023, revised in 2024).

The existing Plaza de Mercado - Benigno Pérez Soler, occupies approximately 1,195,490 m² of land. Its primary structure to be demolished, built ca. 1983, is characterized by ten reinforced concrete columns interlinked with reinforced concrete beams. This central structure features a roof supported by steel beams and galvanized frames, all covered by galvalume metal plates. Additionally, surrounding the main system, approximately ten smaller locales constructed from diverse materials, including concrete, blocks, and wood, are slated for demolition (Diland and Alvarado 2023: 8). The building has been determined not eligible to the NRHP and non-contributing to the Quebradillas Traditional Urban Center District.

The market square's location was integral to the original town layout, founded in 1823, specifically the Luis Muñoz Rivera Public Plaza of Quebradillas to the north (0.11miles). This plaza adhered to a traditional colonial distribution, characterized by a grid-like pattern connecting the area's buildings in an urban manner. The San Rafael Arcángel Catholic church stands on the eastern side of the public plaza, also 0.11 miles from the designated reform area (Dilan and Alvarado 2023: 9).

The history of use of the parcel where the Market Square is located has been interesting and diverse. An 1867 map of the town shows that the eastern part of the parcel was crossed by two north-south oriented roads (Figure 5). Both originate from a main road that ran from the central part of the plaza to the south, branching off one block from it. The street that crosses almost through the center of the parcel corresponds to José E. Linares Street (at one time also called Georgetti Street). No individual structures are shown in the figure, so it is unknown if there were any buildings at this time.

Figure 5: Project Area in the 1867 Plan of the Municipality of Quebradilla
(Dilan and Alvarado Muñoz 2023: 21)



as developed (Figure 8). In the 1950 quadrangle the block is also represented with a thick continuous line but by the south some individual structures begin to show.

Figure 8: Project Area in the 1938 (left) and 1950 (right) USGS Topographic Quadrangles



The map from 1957 highlights the division of residential blocks, introducing projects with a similar central layout extending toward the periphery. The Project area features three buildings (Figure 9-left).

By 1972, Dilan (2023: 9) explains that:

“a transformation emerged, marked by the erection of more prominent buildings in areas that were once residential. This evolution is particularly evident in the proposed project area. Integrating the historic site with recent undertakings like the Francisco Vigo Salas Residential and Jardines del Carmen showcases the project's intent to connect the past with contemporary developments. The juxtaposition of architectural styles from different eras underscores the project's commitment to preserving heritage while embracing modernity. The USGS Topographic Map provides insights into the urban evolution of the area until 1972.”

The 1972 topographic quadrangle shows a single structure to the east of the parcel under study (Figure 9-right).

Aerial photographs from 1993 capture the project already constructed, surrounded by various services, including Paseo Linares. El Paseo Linares is strategically positioned to the north, connecting the Plaza Pública with the Plaza Mercado of the municipality (Dilan and Muñoz 2023: 9).

Figure 9: Project Area in the 1957 (left) and 1972 (right) USGS Topographic Quadrangles
(Dilan and Alvarado 2023: 16 and 17)



Regarding the archaeological potential of the project's area of potential effects, there is no evidence of pre-Columbian finds in the Traditional Urban Center. Known precolonial sites are predominantly located in the proximity of the Guajataca River over one mile to the west or in the Terranova Ward, one mile to the north of the project site (Dilan and Alvarado 2023: 7). As such, it is concluded that the potential for encountering pre-colonial resources during project activities is low.

In contrast, the history of use of the parcel suggests that the potential to find resources from the Spanish Colonial and US Colonial periods is high. The area under study has been populated since at least the second half of the 19th century. There is the potential to find remains of nineteenth century roads, foundations of residential and commercial buildings, artifactual deposits, activity areas, and historic infrastructure. In fact, in an IB phase archaeological survey conducted by archaeologist Rossana Santos Emmanuelli in 1991, the remains of the foundations of a building were identified just in front of the east entrance of the Plaza del Mercado building. These findings were at a depth of 54 to 140 cm and could be the remains of the properties that existed there prior the extension the San Carlos Street that are shown in the 1957 and 1972 Topographic Quadrangles (Figure 9) and in more detail in the 1936 and 1950 aerial photographs (Figure 7).

IV. ARCHAEOLOGICAL MONITORING PROCEDURE

The monitoring activities can be divided into three groups: activities before the project begins, activities during construction, and post-construction activities. Monitoring is limited to activities that entail demolition and excavations. Those construction activities that do not entail excavations or earth movements do not require an archaeological monitor.

A. Before Construction Begins

1. The Construction Manager (CM) will notify the Project Manager (PM), Grant Manager (GM), and Monitor of the proposed activities' start date. The PM is responsible for coordination between the CM and the SOI-qualified archaeologist who will oversee the monitoring (Monitor).
2. Before any demolition or construction begins, the PM, CM, GM, and Monitor will have a kickoff meeting to discuss the procedure for archaeological monitoring, including the coordination protocol between the Monitor and the Contractor. The Monitor will provide an orientation on the area's cultural resources and potential resources and their proper treatment. The Monitor will also explain which project activities require archaeological monitoring.
3. The CM, PM, and construction crew will complete and sign a statement outlining the activities that may not be performed without the Monitor's presence, demonstrating their understanding and commitment to following the archaeological monitoring procedures.

B. During Demolition and Construction

1. The Monitor shall be in the field during all project activities involving demolition and ground disturbance; access and clear sightlines to all demolition and excavation activities and debris removal will be provided to the Monitor.
2. The Monitor shall provide instructions directly to the construction field personnel concerning how to proceed when there is a potential to impact an archaeological resource. The construction field personnel will abide by these requests: excavate slowly, stop the excavation work to evaluate a finding, etc.
3. The Monitor shall keep a record of monitored activities. The Monitor shall fill out the Daily Record of Activities Form (see **Error! Reference source not found.**). These Forms will be attached to the final report as an appendix. These forms should be send weekly to the GM for review.
4. The Monitor shall document all archaeological remains identified during construction activities, except for previously unidentified historically significant findings (refer to B-6 below). The documentation shall include a detailed description of the discovery, context, horizontal and vertical provenience, photos, and a plan drawing. This documentation shall be done within a reasonable amount of time, trying as much as possible, not to impact on the project schedule.
5. Any subsurface feature may be demolished and removed after being documented by the Monitor and approved by the GM. The information recorded will be included in the final report.
6. If the identified archaeological remains are considered historically significant– i.e., complex structures, precolonial remains or stratified deposits – the Monitor shall instruct the construction crew to (1) immediately cease work in the vicinity of the discovery, (2) take all reasonable measures to avoid or minimize harm to the property, and (3) notify the PM, CM, and GM. The GM shall immediately notify the SHPO, as per stipulation III.B.1.b. of the PA. The following protocol shall be followed:

- a. The Monitor shall make a preliminary assessment of the finding. The assessment shall include a description of the discovery, location, horizontal and vertical extent (if known), context, photographs, and drawings, as deemed necessary. The assessment shall also include a work plan for implementing a National Register of Historic Places' eligibility evaluation of the exceptional remains.
 - b. The assessment and NRHP-eligibility evaluation work plan shall be submitted via email to the PM and GM within 24 hours of the discovery. The GM will comment on the work plan within 24 hours of receiving it.
 - c. The Monitor shall implement the work plan after receiving the GM's authorization to proceed. After completing the fieldwork, the Monitor shall prepare an End of Field Report, summarizing the results. Said report should include an NRHP-eligibility determination. The End of Field Report shall be submitted via email to the PM and GM within 48 hours after completing the fieldwork.
 - d. The GM shall notify the SHPO of the NRHP-eligibility determination.
 - i. If the finding is **not eligible** to the NRHP, the GM shall notify the SHPO and provide supporting documentation. Construction activities may resume under archaeological monitoring unless the SHPO disagrees with the NRHP determination and makes a timely objection within 48 hours of the notification.
 - ii. If the finding is **eligible** to the NRHP, the criteria of adverse effect shall be applied. If the project activities do not adversely affect the finding, the GM shall notify the SHPO and provide supporting documentation. Construction activities may resume under archaeological monitoring unless the SHPO makes a timely objection within 48 hours of the notification.
 - iii. If the project activities have an **adverse effect** on the NRHP-eligible finding, a Data Recovery will be implemented as a Treatment Measure per Appendix F of the PA. The Monitor shall develop a data recovery plan with a research design consistent with the Secretary of the Interior's Guidelines for Archeological Documentation (http://www.nps.gov/history/locallaw/arch_stnds_7.htm) and the Advisory Council on Historic Preservation's (ACHP) recommendations on the recovery of significant information from archaeological sites as updated in 2009, at https://www.achp.gov/protectinghistoricproperties/Section_106_Archaeology_Guidance. The data recovery plan shall be submitted via email to the GM for comments. The GM shall be responsible for submitting the data recovery plan to the SHPO for comments and approval. This treatment measure does not apply to burials or human remains (refer to IV.D of this work plan).
7. If any additional construction activities are added or design changes are made after the project has begun, the CM and PM, prior to performing the work, shall inform the GM and the Monitor. The Monitor, in conjunction with GM, shall evaluate these activities and apply the adverse effect criteria. If it is determined that the effect is adverse, the archaeologist will provide recommendations on how to avoid, minimize, or mitigate the adverse effect. These recommendations will be consulted with the SHPO prior to implementation. The SHPO will have 15 days to comment on the recommendations. If no communication is received within that time frame it will be assumed that the SHPO has no objection and concurs with the recommendations outlined.
 8. If during construction activities a historic property is affected in an unanticipated manner, the CM shall stop work immediately, and inform the PM, GM, and Monitor. The Monitor, in conjunction with GM, shall evaluate the unanticipated effects and apply the adverse effect criteria within no

more than 24 hours. If the effect is determined to be adverse, the Monitor and GM will provide recommendations on how to avoid, minimize, or mitigate such adverse effects. The GM shall consult with the SHPO on the recommendations prior to implementation. The SHPO will have 48 hours to comment on the recommendations. If no communication is received within that timeframe, it will be understood that the SHPO has no objection and concurs with the recommendations outlined.

C. After Construction Ends

1. Upon the completion of archaeological monitoring, the PM and GM shall be notified. The estimated date of delivery of the final report shall be indicated in the said notification.
2. A technical report shall be prepared detailing monitored construction activities, documentary research (if any), documentation archaeological features and other findings, and analysis and interpretation of the results. The report must include visual information, such as drawings and photos, and a sketch plan of all the documented findings. The report shall be submitted to the GM no later than two (2) weeks after completing the archaeological monitoring work. The GM shall submit the report to the SHPO no later than one (1) week after receiving it.

D. Human Remains

If human remains are discovered, the protocol established in Stipulation III.B.1.c. of the PA must be followed:

1. Stop work immediately.
2. Notify the local law enforcement office and coroner/medical examiner following applicable Commonwealth statute(s).
3. Protect the remains from any harm.
4. The GM shall be responsible for notifying the SHPO within twenty-four (24) hours of identifying human remains.

V. PROFESSIONAL QUALIFICATIONS

The Monitor must meet the minimum Secretary of the Interior Professional Qualifications Standards for Archaeology established in 36CFR Part 61. These are: a graduate degree in archaeology, anthropology, or closely related field, plus at least one (1) year of full-time professional experience or equivalent specialized training in archaeological research, administration, or management; at least four (4) months of supervised field and analytic experience in general Puerto Rican archaeology; the demonstrated ability to carry research to completion; and at least one (1) year of full-time professional experience at a supervisory level in the study of archaeological resources of the pre-Columbian and colonial periods. Please see https://www.nps.gov/history/local-law/arch_stnds_9.htm for more information.

The SOI-qualified archaeologist shall not defer their monitoring responsibilities to any other person who does not meet the minimum professional qualifications. Any additional personnel to intervene in monitoring efforts shall have vast experience in historic archaeology, in working in evaluation (Phase II), documentation (Phase III), and monitoring projects dealing with colonial period properties.

The Principal Investigator may not transfer his or her duties, obligations, and responsibilities to subordinates or other technicians who are not professionally trained in archaeology. In the case of hiring archaeologists and trained technicians to assist in archaeological monitoring, the Principal Investigator must be present for at least 25 percent of the duration of the fieldwork to supervise them.

VI. CITED REFERENCES

Advisory Council on Historic Preservation

2009 ACHP recommendations on the recovery of significant information from archaeological sites
https://www.achp.gov/protectinghistoricproperties/Section_106_Archaeology_Guidance.

Consejo para la Protección del Patrimonio Arqueológico Terrestre de Puerto Rico.

2017 *Reglamento para la radicación y evaluación arqueológica de proyectos de construcción y desarrollo*. San Juan: ICP. Reglamento #8932 del 8 de febrero de 2017.

Dilan, Heidi J. and Alvarado Muñoz, Fernando

2023 Demolición y construcción Plaza del Mercado. Puerto Rico 2017 Disaster Recovery, CDBG-DR Program. City Revitalization Program (City-Rev). Section 106 NHPA Effect Determination.

Ingenieros del Oeste

2023 90% Design Plans. Plaza para usos múltiples Benigno Pérez Soler (PR-CRP-000521), Honorio Hernández Street, Pueblo Ward, Quebradillas, Puerto Rico.

National Park Service

s/f "Archeology and Historic Preservation: Secretary of the Interior's Standards and Guidelines [As Amended and Annotated] Professional Qualification Standards".
https://www.nps.gov/history/local-law/arch_stnds_9.htm

s/f "Archeology and Historic Preservation: Secretary of the Interior's Standards and Guidelines for Archeological Documentation". http://www.cr.nps.gov/local-law/arch_stnds_7.htm

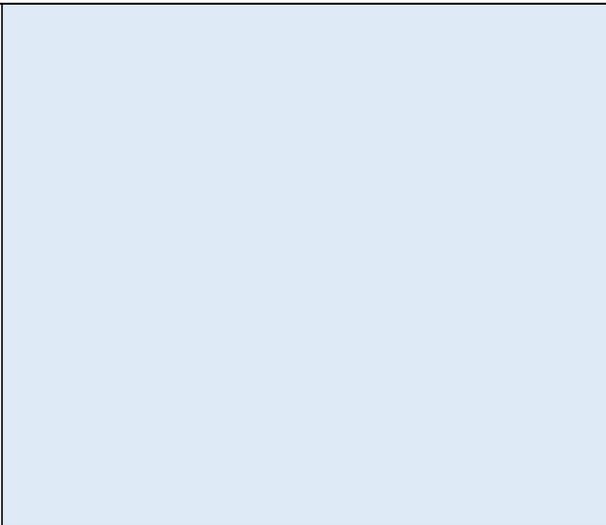
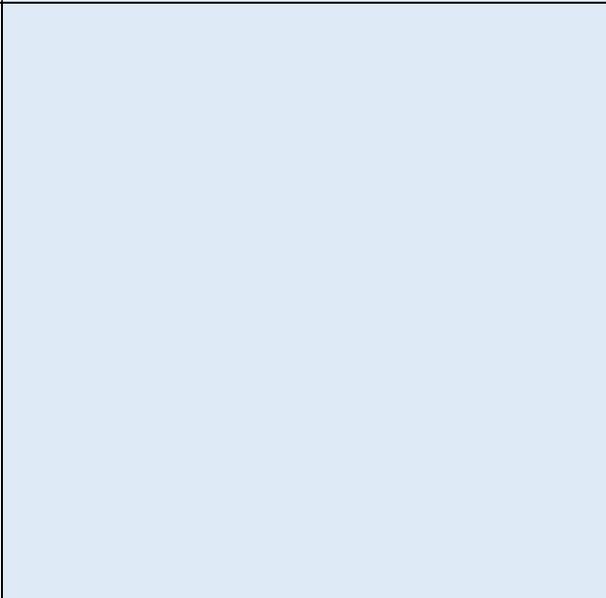
APPENDIX A: MONITORING DAILY ACTIVITY SHEET

	PUERTO RICO 2017 DISASTER RECOVERY City Revitalization Program ARCHAEOLOGICAL MONITORING DAILY RECORD OF ACTIVITIES	
	Case ID:	Project Location:
	Municipality:	Project Coordinates (lat/long):

SOI Qualified-Archaeologist:
Date of Monitoring: Click or tap to enter a date.
Work Hours:

<u>Description of work performed by contractor and supervised by the Monitor:</u>		
	YES	NO
Are the project activities conforming to the LIDRS? If not, explain below.	<input type="checkbox"/>	<input type="checkbox"/>
Was an archaeological remain documented during the day. If yes, include required information below.	<input type="checkbox"/>	<input type="checkbox"/>
Was an exceptional archaeological remain identified during the day? If yes, explain below.	<input type="checkbox"/>	<input type="checkbox"/>
Have the construction activities affected a previously unidentified property or a known historic property in an unanticipated manner? If yes, explain below.	<input type="checkbox"/>	<input type="checkbox"/>
Has there been a change in the scope of work of the project? If yes, explain below.	<input type="checkbox"/>	<input type="checkbox"/>

	PUERTO RICO 2017 DISASTER RECOVERY City Revitalization Program ARCHAEOLOGICAL MONITORING DAILY RECORD OF ACTIVITIES
Case ID:	Project Location:
Municipality:	Project Coordinates (lat/long):

Site Photos	
<p>Direction of Photo: Click here to enter text. Description: Click here to enter text.</p>	
<p>Direction of Photo: Click here to enter text. Description: Click here to enter text.</p>	



GOVERNMENT OF PUERTO RICO

STATE HISTORIC PRESERVATION OFFICE

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

Monday, May 13, 2024

Lauren B Poche

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

SHPO-CF-04-11-24-01 PR-CRP-000521 (Quebradillas), Plaza del Mercado Project

Dear Ms. Poche: Our Office has received and reviewed the above referenced project in accordance with 54 USC 306108 (commonly known as Section 106 of the National Historic Preservation Act, as amended) and 36 CFR Part 800: Protection of Historic Properties from the Advisory Council on Historic Preservation.

After a review of all the documentation, the PRSHPO concurs with your determination that the proposed project will have no adverse effect on historic properties for this undertaking conditioned to archaeological monitoring during ground disturbing activities for the project.

If you have any questions concerning our comments, do not hesitate to contact our Office.

Sincerely,

Carlos A. Rubio Cancela

State Historic Preservation Officer

CARC/GMO/MDC



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

April 11, 2024

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

Puerto Rico Disaster Recovery, CDBG-DR City Revitalization (City-Rev) Program

Section 106 NHPA Effect Determination Submittal for PR-CRP-000521, Demolición y Construcción Plaza del Mercado Project, Quebradillas, Puerto Rico – *No Adverse Effect, Conditioned*

Dear Architect Rubio Cancela,

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 (PRDOH) aims to lead a comprehensive and transparent recovery for the benefit of Puerto Rico residents. To faithfully comply with HUD's environmental requirements, the Puerto Rico Department of Housing contracted Horne Federal, LLC (HORNE) to provide environmental records review services that will support the Department's objectives Puerto Rico Housing (PRDOH) for CDBG-DR.

On behalf of PRDOH and the subrecipient, the Municipality of Quebradillas, we are submitting documentation for the proposed Demolición y Construcción Plaza del Mercado Project Project. The proposed undertaking consists of the demolition of the existing Plaza del Mercado and the construction of six new kiosks, restrooms, green areas, a fountain, benches, sidewalks, and ADA ramps. New underground utilities will be installed. The full scope of the project is described in the submitted documentation, which includes mapping, photographs, and the 90% construction plans.

Based on the provided documentation, the Program requests a concurrence with a determination that “No Adverse Effect” is appropriate for this undertaking, conditioned to archaeological monitoring during ground disturbing activities. If this condition is deemed appropriate, an archaeological work plan will be submitted to the PRSHPO for review and approval.

If you have any questions or concerns, please contact me by email at lauren.poche@horne.com or phone at 225-405-7676, or Ms. Sharon Meléndez Ortiz at sharon.melendez@horne.com.

Kindest regards,

A handwritten signature in cursive script that reads 'Lauren B. Poche'.

Lauren Bair Poche. M.A.

Architectural Historian, EHP Senior Manager

Attachments



October 20, 2022

Arch. Carlos A. Rubio Cancela

Executive Director

State Historic Preservation Officer

Cuartel de Ballajá Bldg.

San Juan, Puerto Rico

Re: Authorization to Submit Documents

Dear Arch. Rubio Cancela:

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

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

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

Cordially,

A handwritten signature in blue ink, appearing to read 'Juan C. Pérez Bofill'.

Juan C. Pérez Bofill, P.E. M.Eng

Director of Disaster Recovery

CDBG DR-MIT

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM CITY REVITALIZATION PROGRAM (CRP) Section 106 NHPA Effect Determination	
Subrecipient: Quebradillas Municipality	
Project Name: Demolición y Construcción Plaza del Mercado	
Project Number: PR-CRP-000521	

Project Location: José Pérez Soler St. and San Carlos St., Quebradillas, Puerto Rico	
Project Coordinates: 18.47210°, -66.9384°	
TPID (Número de Catastro): 008-090-021-07	
Type of Undertaking:	
<input type="checkbox"/> Substantial Repair <input checked="" type="checkbox"/> New Construction	
Construction Date (AH est.): ca. 1983	Property Size (acres): 0.22956 (10,000.00 sq. ft.)

SOI-Qualified Architect/Architectural Historian: Heidi J. Dilan
Date Reviewed: 08/13/2023, 2/26/2024 (rev.)
SOI-Qualified Archaeologist: Fernando Alvarado Muñoz
Date Reviewed: July 31, 2023, 12/20/2023 (rev.)

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

Project Description (Undertaking)

The project aims to revitalize the existing Plaza de Mercado - Benigno Pérez Soler located in the Municipality of Quebradillas through a comprehensive demolition and new construction initiative. This undertaking is intended to transform the area into a modern, vibrant, and accessible hub for commerce and community engagement.

In terms of the project's scope, the following actions will be undertaken:

Demolition Phase:

- Demolition of the main existing 9,131.36 sq. ft. structure, that is composed of ten reinforced concrete columns, is connected by a series of reinforced concrete beams and is roofed with steel beams and galvanized purlin-type structures covered by galvanized metal plates.
- Removal of approximately 10 smaller concrete, block, and wood structures, that are located within the main structure and were established alongside the original construction from circa 1983.
- Excavation and earth-moving for the construction of the new 6 sales kiosks, sanitary facilities, green areas, entrance fountain, benches, access ramps and



Subrecipient: Quebradillas Municipality

Project Name: Demolición y Construcción Plaza del Mercado

Project Number: PR-CRP-000521

sidewalks. A construction area of approximately 10,000 square feet is indicated, so excavation is anticipated in most or all this area.

- Site preparation includes excavation of up to 4-6 feet deep and installation of underground pipelines for water, sanitary and storm sewer, electricity, among other services. This involves linear trenching in sidewalk and pathway areas.

New Construction Phase:

- Construction of 6 "kioskos" for commercial purposes.
- Installation of modern sanitary facilities.
- Introduction of green spaces, reforestation, and landscaped areas.
- Creation of pedestrian pathways, including ADA ramps.
- Incorporation of an inviting entrance with a fountain feature.
- Placement of benches for seating.

The new construction phase of the project envisions the creation of six small commercial "kiosks," modern sanitary facilities, reforested green spaces, pedestrian pathways with disability-friendly ramps, inviting entrance features including a fountain, and seating areas with benches. The proposed architectural style harmonizes modern and eco-friendly design principles, ensuring a resilient and adaptable architectural approach that aligns with the overall vision of urban revitalization.

Architectural Features:

- The new construction will cover approximately 10,000.00 sq. ft.
- Design emphasizes open, eco-friendly spaces.
- Modern and resilient architectural approach.
- Main structure covers around 888.20 sq. m.
- Main structure dimensions: 150 ft. x 62 ft.
- Current structure materials: reinforced concrete columns, steel beams, and galvanized roofing structures.

Location:

- Site situated at José Pérez Soler Street and San Carlos Street intersection.

Objective:

- Revitalize Plaza de Mercado - Benigno Pérez Soler into a modern, vibrant, and accessible hub for commerce and community engagement.

Impact:

- Promote local commerce, entrepreneurship, and economic growth.
- Enhance community interaction and cohesion.
- Provide a resilient space for diverse activities.

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM CITY REVITALIZATION PROGRAM (CRP) Section 106 NHPA Effect Determination	
Subrecipient: Quebradillas Municipality	
Project Name: Demolición y Construcción Plaza del Mercado	
Project Number: PR-CRP-000521	

- Preserve historical significance while embracing modern design principles.

Area of Potential Effects

As defined in 36 CFR §800.16(d), the area of potential effects (APE) is the geographic area or areas within which an undertaking may directly or indirectly cause changes in the character or use of historic properties if any such properties exist. Based on this definition and the nature and scope of the Undertaking, the Program has determined that:

The direct APE for this project is approximately 200 feet (length) x 50 feet (width), encompassing 10,000 square feet where demolition, excavation, and construction will occur. It is bounded by Calle José Pérez Soler to the north, Calle San Carlos to the east, existing adjacent structures to the south, and the current open plaza area to the west.

The indirect/visual APE encompasses a radius of 100 feet surrounding the direct APE. It includes adjacent streets, neighborhood, and line of sight views to/from the direct APE.

Review of historic plans shows this direct APE area was vacant as of 1867, while aerial images depict structures present by 1936. Previous archaeological studies recorded building remains near the plaza entrance, indicating potential for intact subsurface deposits.

The visual APE contains the historic town center and founding plaza. While the direct APE was disturbed by previous construction, areas between foundations may retain undisturbed soils capable of yielding archaeological materials.

Identification of Historic Properties - Archaeology

Existing information on previously identified historic properties has been reviewed to determine if any such properties are located within the APE of this undertaking. The review of this existing information, by a Program contracted Historic Preservation Specialist meeting the Secretary of the Interior's Professional Qualification Standards (36 CFR Part 61), shows that the project area shows that the project area is within the boundaries of the Quebradillas Traditional Urban Center.

Prehistoric Overview:

Archaeologist Dr. Froelich Rainey was the first to systematically document archaeological sites in the nearby area, focusing on the coastal region from Camuy to Isabela in 1934. One particularly noteworthy site is Coto, located in the municipality of Isabela, west of the Guajataca River. At the Coto site, various findings, including burials and Saladoid-style



Subrecipient: Quebradillas Municipality

Project Name: Demolición y Construcción Plaza del Mercado

Project Number: PR-CRP-000521

pottery, were uncovered among other materials. The excavations revealed evidence of two distinct occupations, known as Crab culture and Shell culture settlements. The first, characterized by Saladoid pottery, was found in a stratigraphic layer containing exclusively crab remains. The second occupation was identified in a layer of seashells exhibiting a late Saladoid ceramic style, indicating a local late development. Notably, the archaeological efforts at Coto also involved the excavation of 60 human burials.

In the Quebradillas municipality, numerous archaeological sites have been identified. One notable site, possibly representing the earliest ceramics in Quebradillas, is Qb-6, situated along the Guajataca River. Artifacts such as ceramics and shells dating back to the Ostionoid period (600 AD to 1200 AD) were discovered at this location. Other sites in the area are potentially from the Chicoid period (Taíno), they consist of ceramic and shell fragments (ICP/CAT QB-1, ICP/CAT QB-5, and ICP/CAT QB-7), a shell midden (ICP/CAT QB-2), rock art found in four caves (Maleona, Las Golondrinas 1 and 2, and del Abono), and 2 petroglyphs located in open fields (ICP/CAT QB-4).

Historic Overview:

Quebradillas was established in 1823 through the efforts of Don Felipe Ruiz and Francisco A Bravo, who generously donated the land for municipal development. Ruiz contributed eight cuerdas, while Bravo provided one and a half for the construction of public facilities. A longstanding dispute between the residents of Camuy and Quebradillas, dating back to 1805, revolved around obtaining authorization to settle in the area. The name "Quebradillas" is derived from the numerous small streams that drain the region.

In 1815, the residents of Camuy Arriba, also known as Quebradillas, appointed Francisco Jiménez to seek government authorization for the establishment of the town in the Quebradillas location. After persistent efforts, the foundation of San Rafael de las Quebradillas took place on either June 6th or 7th, 1823. That same year, municipal projects commenced with the enclosure of the cemetery, and by 1824, the Casa del Rey was completed.

The church reached completion in 1828, and its inaugural Parish Priest was Reverend Father Manuel Valdez, named in honor of the patron saint, San Rafael Arcángel. In 1902, the Legislative Assembly of Puerto Rico approved a law known as the Municipal Consolidation Act, which abolished the municipality of Quebradillas and merged its districts and officials into those of Camuy.

Between 1903 and 1908, the construction of the railway line of the Puerto Rico Circle Railroad, connecting San Juan to Ponce, was completed. This railway passed through Quebradillas and involved the construction of a bridge over Quebradas in Isabela and Quebradillas, as well as an impressive viaduct supported by steel beams crossing the 606 Barbosa Avenue, Building Juan C. Cordero Dávila, Río Piedras, PR 00918 | P.O. Box 21365 San Juan, PR 00928-1365

Tel: (787)274-2527 | www.vivienda.pr.gov

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM CITY REVITALIZATION PROGRAM (CRP) Section 106 NHPA Effect Determination	
Subrecipient: Quebradillas Municipality	
Project Name: Demolición y Construcción Plaza del Mercado	
Project Number: PR-CRP-000521	

Guajataca River canyon, along with two access tunnels.

Finally, in 1905, just three years later, a new law reinstated Quebradillas as a municipality with the same boundaries and districts it had in 1902.

Historic Maps and Aerial Imagery:

Two historic plans were identified that showcase the Traditional Urban Center of Quebradillas including the direct APE. First, we have the 1867 Plan of the Municipality of Quebradillas (Figure 9) where it can clearly be seen the location of the Plaza del Mercado without developments. One thing that does show is that José E Linares Street extended all the way to the direct APE and crossed across the middle of the project site. The second historic plan corresponds to the plan for the improvements of the roads of the urban center of 1924 (Figure 10). This plan does not show new information regarding developments but does mention that José E Linares Street was named Georgetti Street at the time.

In the case of aerial photography, two images were identified. The first one from 1936 (Figure 11) showcases that the area where the Plaza del Mercado sits today was already developed. Six buildings can be seen on site 5 to the east side of the Plaza del Mercado and a bigger one to the east. The road that showed up before crossing through the center of the plot in a north to south direction is no longer there. The second image is from the year 1950 (Figure 12) and showcases an identical situation to the 1936 image where the only difference is that there is more vegetation growing between the western and eastern structures.

Archaeological Studies and Previously Identified Cultural Resources:

Based on the investigations and resources found to date, the project only impacts the footprint of the Project Site. Four (4) positive archaeological studies were identified within the quarter mile research radius. Three (3) in the indirect APE and one (1) in the direct APE. These are ICP/CAT-QB-85-01-02, ICP/CAT-QB-85-01-03, ICP/CAT-QB-91-01-06 and ICP/CAT-HT-15-11-06.

ICP/CAT-HT-15-11-06, phase IA-IB, studied the archaeological impact of the proposed construction of a highway between the municipalities of Hatillo and Aguadilla. This project findings are outside the quarter mile research radius and do not impact the projects indirect APE and direct APE.

ICP/CAT-QB-85-01-02, phase IA, studied the archaeological impact of the construction of the shopping mall Quebradilla Plaza and Urb. Villa Borges. During this project it was identified a set of ruins located 0.20 miles to the east, within the indirect APE. These ruins are probably related to the remains of Hacienda San Antonio and Hacienda Comulada. Which has a SHPO Site ID of QB0200003 and an ICP/CAT ID of QB-10 (0.20 to 0.40 miles east



Subrecipient: Quebradillas Municipality

Project Name: Demolición y Construcción Plaza del Mercado

Project Number: PR-CRP-000521

of project site). The author of the study recommended a phase II study that was never done.

ICP/CAT-QB-85-01-03, phase IB, studied the impact of the improvements to the Quebradillas trunk sewer system. The project identified the ruins of a bridge. The bridge in question has an ICP/CAT ID of QB-12-A and is located 2.40 miles northeast of the APE outside the quarter mile radius research zone.

ICP/CAT-QB-91-01-06 was phase IB study conducted as part of the Improvements to the Water Supply for State Roads PR-113 and PR-485 Project. Rossana Santos Emmanuelli identified the remains of the foundation of a building and rebar right in front of the current Plaza del Mercado building, near the east entrance where the new water pipe was installed. These findings are at a depth of 54 to 140 cm and could be the remains of the properties that existed there prior the extension the San Carlos Street that are shown in the 1957 and 1972 Topographic Maps.

The following table shows the results of all archaeological projects conducted within or near the project site. This data is based on the research done and obtained from the Institute of Puerto Rican Culture and the State Historic Preservation Office.

Study Identification	Title	Type	Author	Results	Distance
ICP/CAT-HT-15-11-06	Corredor Noroeste	IA-IB Phase	Virginia Rivera Calderón	Positive	0.16 miles
ICP/CAT-QB-85-01-02	Centro Comercial Quebradillas Plaza and Urb. Villa Borges	IA-IB Phase	Antonio Daubón Vidal	Positive	0.12 miles
ICP/CAT-QB-85-01-03	Camuy-Hatillo Regional System, Quebradillas Trunk Sewer, Part A & B	IB Phase	Antonio Daubón Vidal	Positive	0.15 miles
ICP/CAT-QB-90-01-04	Mejoras Al Suministro De Agua En La Carretera Estatal 113 y 485	IA Phase	Rossana Santos Emmanuelli	Negative	0.00 miles
ICP/CAT-QB-91-01-06	Quebradillas - Mejoras Al Suministro De Agua Carretera Estatal PR-113 y 485	IB Phase	Rossana Santos Emmanuelli	Positive	0.00 miles
ICP/CAT-QB-92-01-09	Villas De Quebradillas	IA-IB Phase	Juan González Colón	Negative	0.06 miles

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM					
CITY REVITALIZATION PROGRAM (CRP)					
Section 106 NHPA Effect Determination					
Subrecipient: Quebradillas Municipality					
Project Name: Demolición y Construcción Plaza del Mercado					
Project Number: PR-CRP-000521					
ICP/CAT-QB-07-03-06	Segregación y Partición Sucesión Borges-Amador	IA Phase	Jesús F. Figueroa Lugo	Negative	0.17 miles
ICP/CAT-QB-08-04-02	Parque Urbano	IA Phase	Fernando Alvarado Muñoz	Negative	0.12 miles

The following table shows data related to previously identified Archaeological Sites by The Institute of Puerto Rican Culture and the State Historic Preservation Office.

Site Identification	SHPO ICP/CAT	Site Name	Distance from the Project
QB0200003, QB-10	Both	Hacienda San Antonio, Hacienda Comulada	0.20 to 0.40 miles
QB-12-A	ICP/CAT	Puente sobre Quebrada Bellaca	2.40 miles

Preliminary Results:

Based on the investigations and resources found to date, the project only impacts the footprint of the Project Site. Only the findings of one archaeological study are directly impacted by the project. This corresponds to the findings of phase IB, ICP/CAT-QB-91-01-06. There, Rossana Santos Emmanuelli identified the remains of the foundation of a building and rebar right in front of the current Plaza del Mercado building, near the east entrance where a water pipe was installed. These findings are at a depth of 54 to 140 cm and could be the remains of the properties that existed there prior the extension the San Carlos Street that are shown in the 1957 (figure 4) and 1972 (figure 5) Topographic Maps and in more detail in the 1936 (figure 11) and 1950 (figure 12) aerial photographs.

There is no evidence of prehistoric finds in the Traditional Urban Center. All prehistoric finds today are in the proximity of the Guajataca River over one mile to the west or in the Terranova Ward, one mile to the north of the project site, making the potential of unearthing prehistoric archaeological remains low. In the other hand as proven by the ICP/CAT-QB-91-06, the potential of unearthing historical archaeological remains is moderate to high, since the footprint of the current Plaza del Mercado is on top of early 20th century developments that were part of the Traditional Urban Center expansion and that can clearly be seen in the aerial imagery. It is for this reason that the project should continue under Archaeological Monitoring for all demolitions, excavations, and disturbances to the soil like improvement to the foundations and installations of electrical and plumbing systems.



Subrecipient: Quebradillas Municipality

Project Name: Demolición y Construcción Plaza del Mercado

Project Number: PR-CRP-000521

Identification of Historic Properties - Architecture

Existing information on previously identified historic properties has been reviewed to determine if any such properties are located within the APE of this undertaking. The review of this existing information, conducted by a Program-contracted Historic Preservation Specialist meeting the Secretary of the Interior's Professional Qualification Standards (36 CFR Part 61), shows that the project area falls within the boundaries of the National Register of Historic Places (NRHP)-eligible Quebradillas Traditional Urban Center. This urban center encompasses architectural resources that hold NRHP eligibility based on historical significance.

Within this historical context, the proposed project area is situated adjacent to the intersection of José Pérez Soler Street and San Carlos Street in the Municipality of Quebradillas. The existing Plaza de Mercado - Benigno Pérez Soler, the focal point of this revitalization effort, occupies approximately 1,195,490 square meters of land. Its primary structure, to be demolished, is characterized by ten reinforced concrete columns interlinked with reinforced concrete beams. This central structure features a roof supported by steel beams and galvanized frames, all covered by galvalume metal plates. Additionally, surrounding the main system, approximately ten smaller locales constructed from diverse materials, including concrete, blocks, and wood, are slated for demolition.

Within the project area, the Teatro Liberty at Calle Rafols #157, approximately 0.11 miles to the northwest, is a notable historic property listed on the NRHP since May 4, 1989 (NRHP ID: 88000963), underscoring its cultural and architectural significance.

Additionally, the Plaza Pública de Quebradillas and the Iglesia San Rafael Arcángel, both about 0.11 miles north of the project, are notable and eligible structures. In the central urban area where the project site is located, numerous houses have been adapted for modern use, rebuilt, or replaced for new projects, reflecting the town's history and adding depth to the understanding of Quebradillas' architectural evolution.

It's also noteworthy to mention the Puente Blanco, a crucial piece of the town's architectural history, although located outside the 1/4 buffer mile of the project. This bridge contributes significantly to understanding the broader historical context of Quebradillas.

The proposed project not only seeks to enhance the aesthetic and functional aspects of the Plaza de Mercado - Benigno Pérez Soler but also does so while remaining sensitive to the historic architectural context. The project aims to preserve the area's rich heritage while ushering in a contemporary and vibrant urban environment by navigating within the sphere of these identified landmark properties. This harmonious blend of history and modernity ensures a project that respects the past while creating a space for future generations to enjoy and appreciate.



Subrecipient: Quebradillas Municipality

Project Name: Demolición y Construcción Plaza del Mercado

Project Number: PR-CRP-000521

The USGS Historical Topographic Map, from 1938 to 1972, illustrates the area's evolution. The market square's location was integral to the original layout, specifically the Luis Muñoz Rivera Public Plaza of Quebradillas to the north (0.11 miles). This plaza adhered to a traditional colonial distribution, characterized by a grid-like pattern connecting the area's buildings in an urban manner. The San Rafael Arcángel Catholic church stands on the eastern side of the public plaza, 0.11 miles from the designated reform area.

The map from 1938 depicts homogeneous blocks of residences featuring central patios, in line with traditional architectural norms. These structures are complemented by the open expanse of the public square and its adjoining church, linked through established roads. The subsequent map from 1957 highlights the division of residential blocks, introducing projects with a similar central layout extending toward the periphery.

By 1972, a transformation emerged, marked by the erection of more prominent buildings in areas that were once residential. This evolution is particularly evident in the proposed project area. Integrating the historic site with recent undertakings like the Francisco Vigo Salas Residential and Jardines del Carmen showcases the project's intent to connect the past with contemporary developments. The juxtaposition of architectural styles from different eras underscores the project's commitment to preserving heritage while embracing modernity.

The USGS Topographic Map provides insights into the urban evolution of the area until 1972. Aerial photographs from 1993 capture the project already constructed, surrounded by various services, including Paseo Linares. El Paseo Linares is strategically positioned to the north, connecting the Plaza Pública with the Plaza Mercado of the municipality. Noteworthy is that the paseo is currently undergoing reconstruction. Apart from sidewalks and other features, the project aims to elaborate on the Quebradillas History Museum, improvements to housing in the Kennedy community for seniors, a boardwalk with interpretive pathways along the Guajataca River, and the reconstruction of Market Plaza located south of Residencial Rvdo. Francisco Vigo Salas. This visual documentation allows us to observe the transformation of the site over the years, showcasing the completed project within its contemporary context.

The building within the project area has been determined to be less than 45 years in age and does not meet Criteria Consideration G, therefore it is not eligible as a contributing resource to the traditional urban center nor as individually eligible.



Subrecipient: Quebradillas Municipality

Project Name: Demolición y Construcción Plaza del Mercado

Project Number: PR-CRP-000521

Determination

The following historic properties have been identified within the APE:

- Direct Effect:
 - Physical Transformation: The project involves demolishing the non-eligible primary building and creating new elements like kiosks, facilities, and pathways, transforming the Plaza de Mercado - Benigno Pérez Soler.
 - Eligibility and Exemption: Puente Blanco and Teatro Liberty, eligible for listing, lie beyond the project's direct visual impact. The non-eligible building set for demolition does not meet listing criteria due to factors such as the materials used, extensive alterations compromising historical integrity, and its primary functional significance in recent years rather than historical or architectural significance.
 - Remains of the foundations of a historic building identified in ICP/CAT-QB-91-01-06 in the proximity of the East entrance to the Plaza del Mercado. Other historic structures may exist under the footprint pertaining to the original expansion of the Traditional Urban Center as seen in the USGS Topographic Maps of 1957 and 1972 and the aerial imagery of 1936 and 1950. The archaeological remains identified are between the depths of 54 to 140 cm at the easter perimeter of the project site and may be impacted by the development.
- Indirect Effect:
 - Cultural Context: The cultural context refers to the broader historical and social environment in which the project is situated. While the primary focus is on the plaza, excluding the non-eligible building may indirectly affect the understanding and interpretation of the cultural context, as every architectural element contributes to the overall narrative of the community's history and development.
 - Enhanced Vibrancy: The project's vibrancy enhancement could indirectly boost the adjacent historic properties, promoting community heritage appreciation.

Based on our historic property identification efforts, the Program has determined that project actions will not affect the historic properties that compose the Area of Potential Effect. The proposed project will have No Adverse Effect on historic properties conditioned to archaeological monitoring as the potential of unearthing historical remains is moderate to high.

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM CITY REVITALIZATION PROGRAM (CRP) Section 106 NHPA Effect Determination	
Subrecipient: Quebradillas Municipality	
Project Name: Demolición y Construcción Plaza del Mercado	
Project Number: PR-CRP-000521	

Recommendation

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

No Historic Properties Affected

No Adverse Effect

Condition: Archaeological monitoring should be conducted during all ground disturbing activities. An archaeological work plan will be submitted to the PRSHPO for review and approval.

Adverse Effect

Proposed Resolution (if applicable)

This Section is to be Completed by SHPO Staff Only

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

Subrecipient: Quebradillas Municipality

Project Name: Demolición y Construcción Plaza del Mercado

Project Number: PR-CRP-000521

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



Figure #1

Aerial representation of the project's location to be worked on and its context. The blue represents Direct APE, Lime Green as Visual Indirect APE and the orange recreational area of Plaza and San Rafael Arcángel Church.

Subrecipient: Quebradillas Municipality

Project Name: Demolición y Construcción Plaza del Mercado

Project Number: PR-CRP-000521

Project (Parcel) Location - USGS Topographic Map



Figure #3

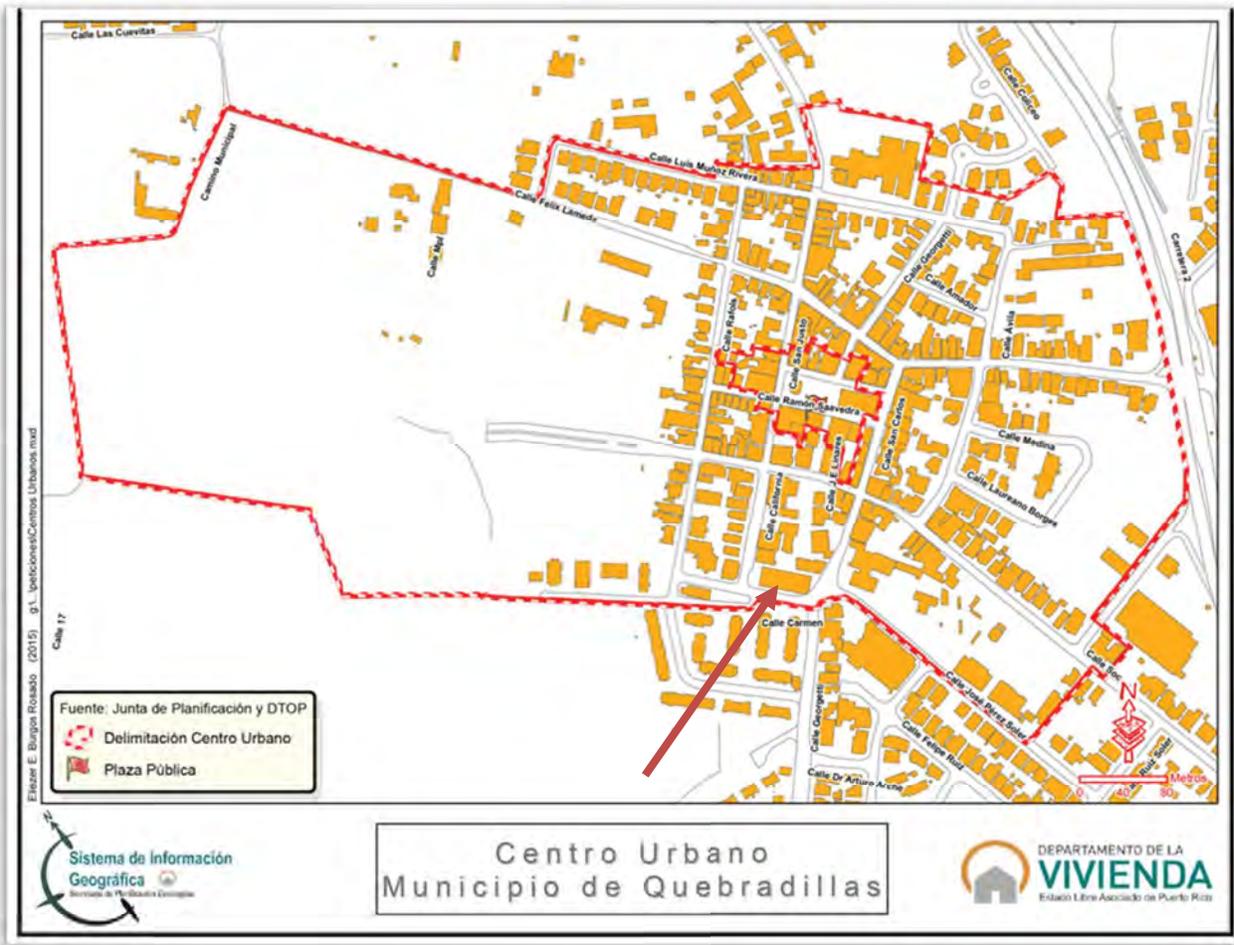
Proposed Site with a Quarter Mile Buffer

Subrecipient: Quebradillas Municipality

Project Name: Demolición y Construcción Plaza del Mercado

Project Number: PR-CRP-000521

Project (Parcel) Location - Quebradillas Traditional Urban Center boundaries with APE



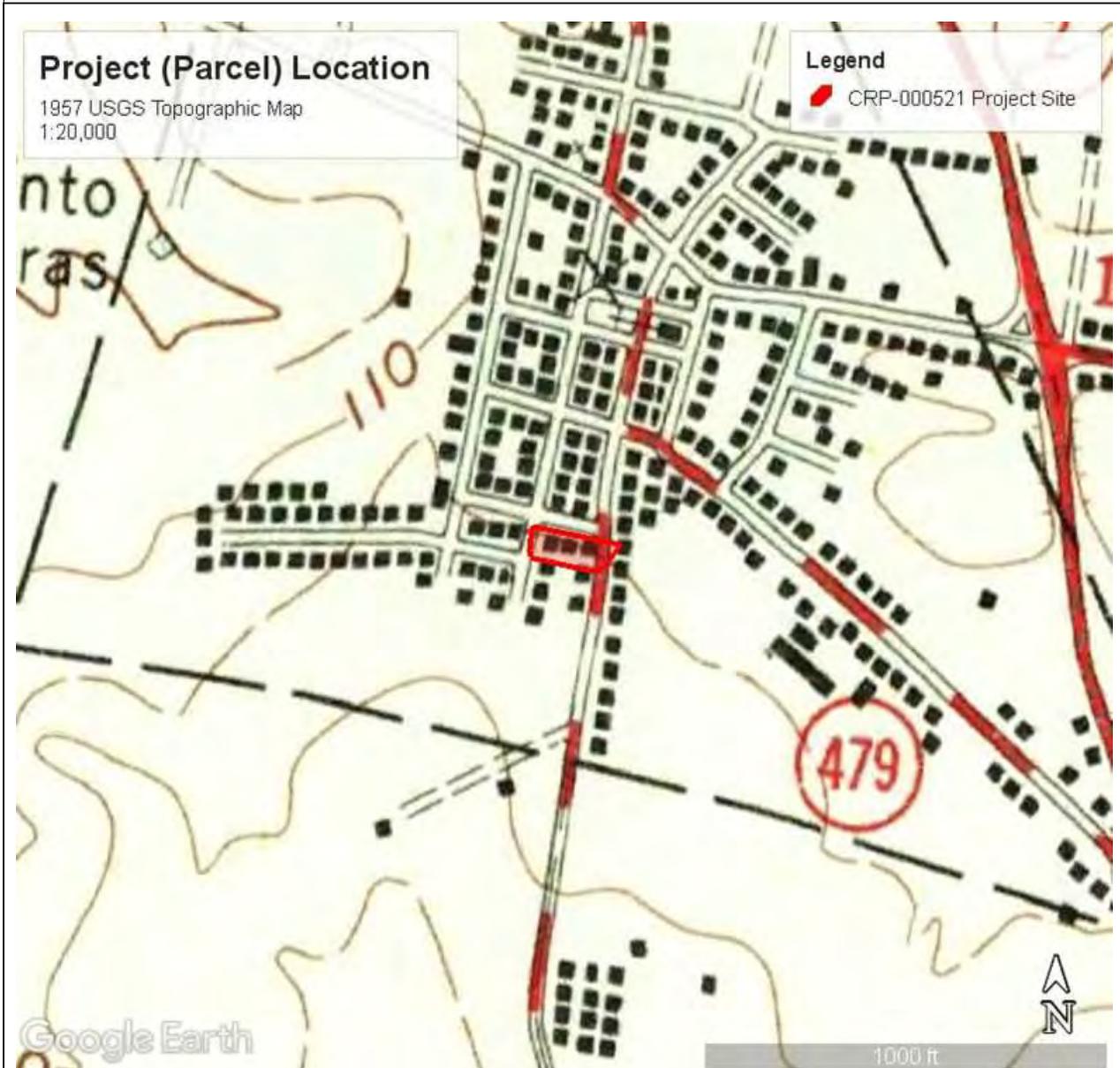
Quebradillas Traditional Urban Center boundaries

Subrecipient: Quebradillas Municipality

Project Name: Demolición y Construcción Plaza del Mercado

Project Number: PR-CRP-000521

Project (Parcel) Location - USGS Topographic Map 1957 1:20000



Description: Topographic Map extracted from the USGS.

Figure #4

Subrecipient: Quebradillas Municipality

Project Name: Demolición y Construcción Plaza del Mercado

Project Number: PR-CRP-000521

Project (Parcel) Location – Soils Map



Description: The above image is extracted from the USDA and it presents the soil types within the Traditional Urban Center.

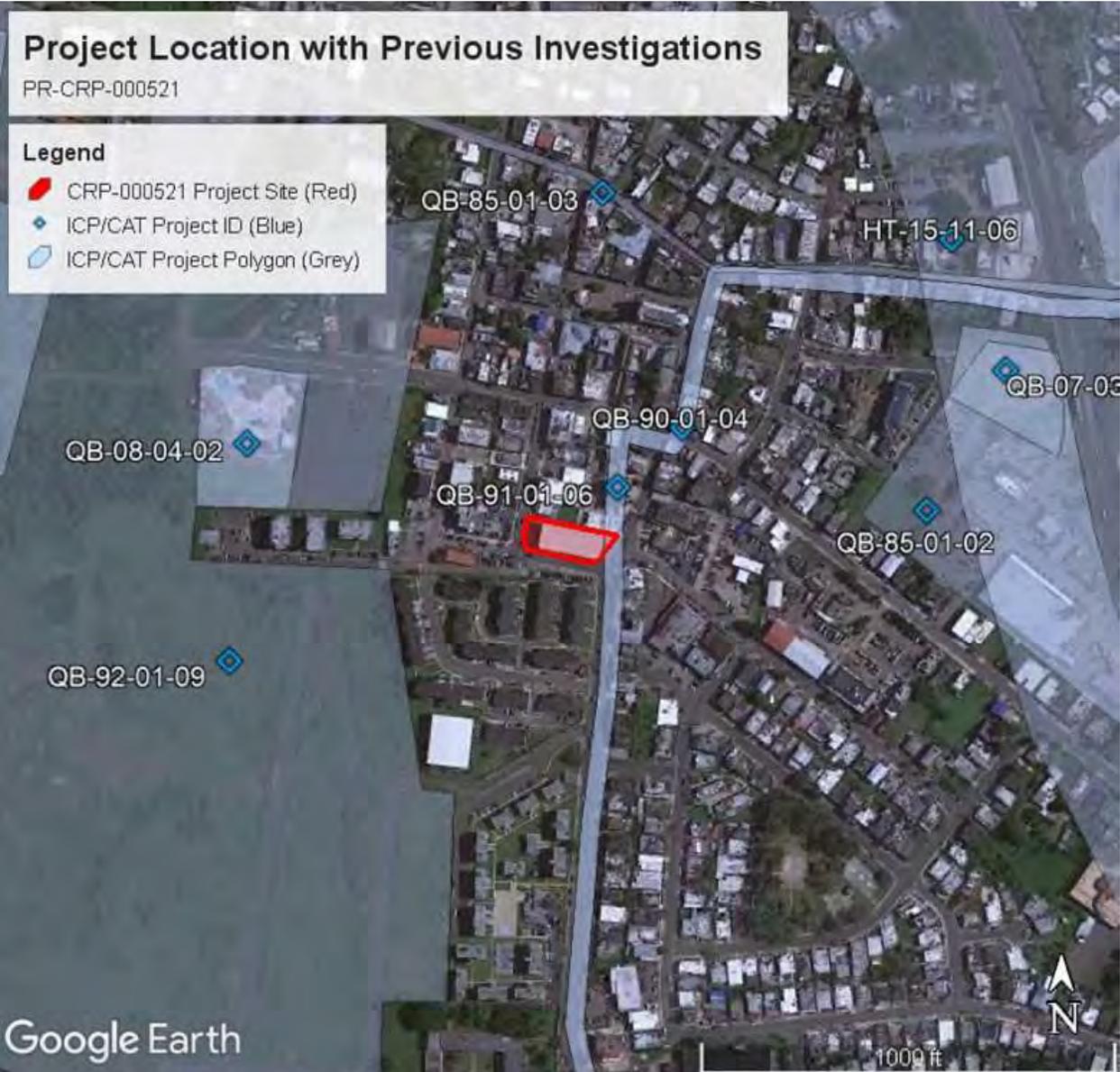
Figure #6

Subrecipient: Quebradillas Municipality

Project Name: Demolición y Construcción Plaza del Mercado

Project Number: PR-CRP-000521

Project (Parcel) Location with Previous Investigations - Aerial Map



Description: The image above showcases all previous archaeological studies within the indirect and direct APE.

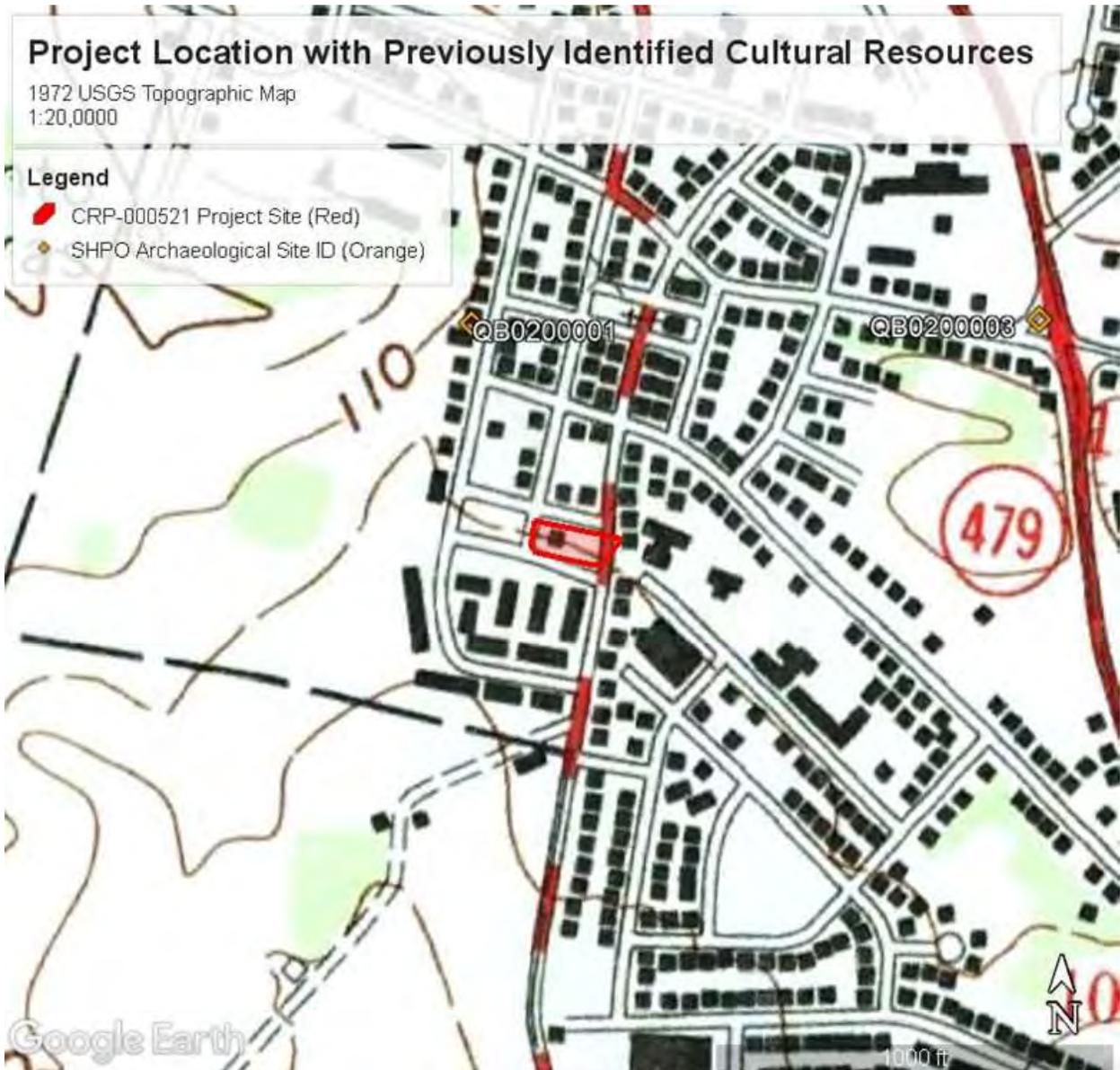
Figure #7

Subrecipient: Quebradillas Municipality

Project Name: Demolición y Construcción Plaza del Mercado

Project Number: PR-CRP-000521

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



Description: The image above showcases all previously identified archaeological sites within the indirect and direct APE.

Figure #8

Subrecipient: Quebradillas Municipality

Project Name: Demolición y Construcción Plaza del Mercado

Project Number: PR-CRP-000521

1867 Historic Plan of the Municipality of Quebradillas



Description: Image sourced from the Puerto Rico General Archives.
Figure #9

Subrecipient: Quebradillas Municipality

Project Name: Demolición y Construcción Plaza del Mercado

Project Number: PR-CRP-000521

1936 Aerial Photograph



Description: Description: Image sourced from the photogrammetry division of DTOP
Figure #11

Subrecipient: Quebradillas Municipality

Project Name: Demolición y Construcción Plaza del Mercado

Project Number: PR-CRP-000521

1950 Aerial Photograph



Description: Description: Image sourced from the photogrammetry division of DTOP
Figure #12

Subrecipient: Quebradillas Municipality

Project Name: Demolición y Construcción Plaza del Mercado

Project Number: PR-CRP-000521

Photograph Key



Subrecipient: Quebradillas Municipality

Project Name: Demolición y Construcción Plaza del Mercado

Project Number: PR-CRP-000521



Photo #: 1

Description (West): One of the side entrances to Plaza de Mercado.

Date: 7/11/23



Photo #: 2

Description (West): One of the side entrances to Plaza de Mercado.

Date: 7/11/23

Subrecipient: Quebradillas Municipality

Project Name: Demolición y Construcción Plaza del Mercado

Project Number: PR-CRP-000521



Photo #: 3

Description (West): Rear part where its structure, connection with the context and service road can be appreciated.

Date: 7/11/23



Photo #: 4

Description (East): East side of Plaza de Mercado, where you can see the composition of the structure, its composition in concrete and aluminum roof.

Date: 7/11/23

Subrecipient: Quebradillas Municipality

Project Name: Demolición y Construcción Plaza del Mercado

Project Number: PR-CRP-000521



Photo #: 5

Description (West): It shows the current interior, its condition and use by traders.

Date: 7/11/23



Photo #: 6

Description (East): It shows the current interior, its condition and use by traders.

Date: 7/11/23

Subrecipient: Quebradillas Municipality

Project Name: Demolición y Construcción Plaza del Mercado

Project Number: PR-CRP-000521



Photo #: 7

Description (west): Metal structure covering the existing building.

Date: 7/11/23



Photo #: 8

Description (East): Exterior of the structure and its connection with the residential area.

Date: 7/11/23

**PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM
CITY REVITALIZATION PROGRAM (CRP)
Section 106 NHPA Effect Determination**



Subrecipient: Quebradillas Municipality

Project Name: Demolición y Construcción Plaza del Mercado

Project Number: PR-CRP-000521



Photo #: 9

Description: Exterior of the structure and its connection with the residential area.

Date: 7/11/23



Photo #: 10

Description: Exterior of the structure and its connection with the residential area.

Date: 7/11/23

Subrecipient: Quebradillas Municipality

Project Name: Demolición y Construcción Plaza del Mercado

Project Number: PR-CRP-000521



Photo #: 11

Description: Exterior of the structure and its connection with the service area.

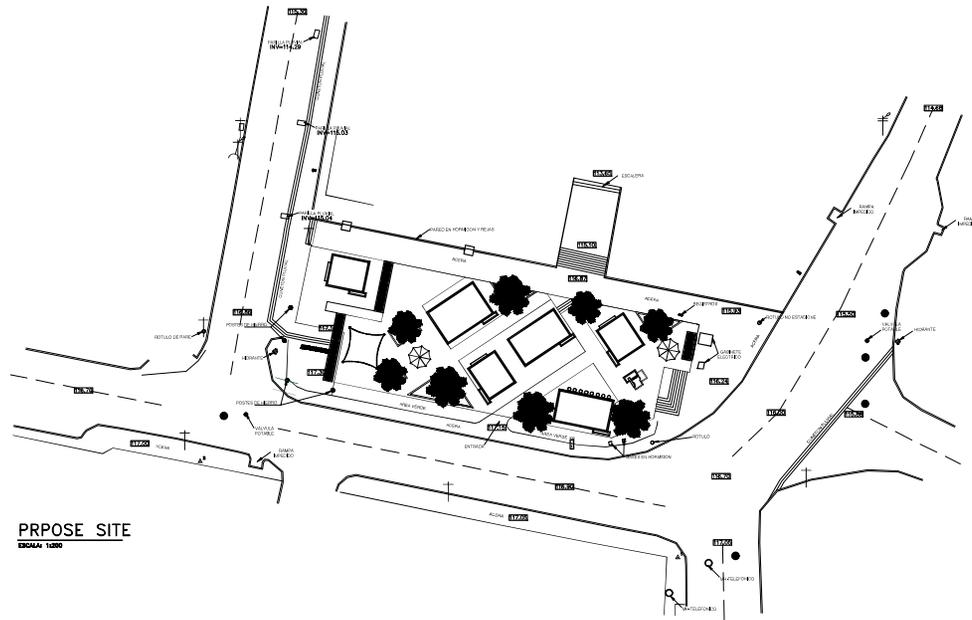
Date: 7/11/23



Photo #: 12

Description: Exterior of the structure and its connection with the residential area.

Date: 7/11/23



PROPOSE SITE
SCALE: 1:200

ZONIFICACION = C-1
DE CATASTRO = 008-090-021-07
COORD. LAMBERT Y=270,774,1516 X=146,650,3814

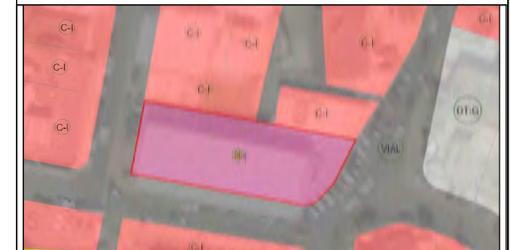
INDEX OF DRAWINGS
SHEET NO. SHEET TITLE

EXHIBITION:		STRUCTURAL:	
X-1	TITLE INDEX OF DWG., LOCATION SITE PLAN	S-1	FOUNDATION PLAN
X-2	SURVEY PLAN	S-2	FOUNDATION PLAN
X-3	PROPOSE SITE PLAN	S-3	FOUNDATION PLAN & FOOTING DETAILS
X-4	SITE ACUEDUCTOS	S-4	STRUCTURAL PLAN & DETAILS
X-5	DETALLES ACUEDUCTOS	S-5	STRUCTURAL NOTES & DETAILS
X-6	SITE AGUA POTABLE	S-6	GENERAL SPECIFICATIONS
X-7	SITE ALCANTARILLADO SANITARIO	ELECTRICAL:	
X-8	DETALLES SANITARIOS	E-1	LIGHTING & POWER DIST. LAYOUT
X-9	PLANO ELECTRICO	PLUMBING:	
X-10	DETALLES ELECTRICOS	P-1	WATER & SANITARY DIST. LAYOUT
ARCHITECTURAL:		P-2	PLUMBING DETAILS
A-1	PROPOSE FLOOR PLAN		
A-2	PROPOSE FACADES		
A-3	PROPOSE FACADES		
A-4	FLOOR PLAN & KIOSK FACADES		
A-5	ELEVATIONS		
A-6	BATH ELEVATIONS, TOILET FUTURE & ACCESS SCHEDULE		

FEMA FLOOD MAP

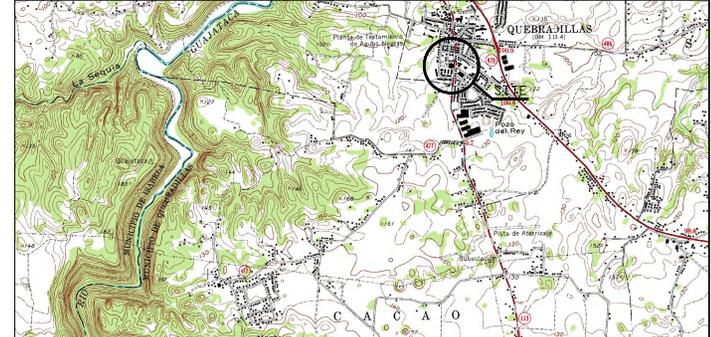


ZONING MAP



SCALE: 1:20,000

LOCATION PLAN



90% DESIGN
PLAZA PARA USOS MULTIPLES
BENIGNO PEREZ SOLER (PR-CRP-000521)
HONORIO HERNANDEZ STREET PUEBLO WARD, QUEBRADILLAS, P.R.
OWNER: MUNICIPALITY OF QUEBRADILLAS

DUENO: PLAZA PARA USOS MULTIPLES BENIGNO PEREZ SOLER, QUEBRADILLAS

TITLE: INDEX OF DWG., LOCATION SITE PLAN

REV.	POR	FECHA	HOJA NUMERO
		12-SEPTIEMBRE-23	01/25

ESCALA: 1"=1'-0"

DIBUJADO POR: A. MERCADO

PROFESIONAL DE INGENIERIA CIVIL

INGENIERO LICENCIADO

U.C. #20206

FUERTO RICO

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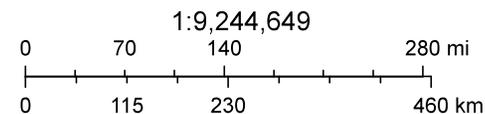
Exhibit 13 Sole Source Aquifers Map

PR-CRP-000521 Demolición y Construcción Plaza del Mercado
Jose Perez Soler St and San Carlos St, Quebradillas, PR 00678
Coordinates 18.47210, -66.93844



Legend:

-  Sole Source Aquifers
-  Project Site



Esri, HERE, Garmin, FAO, NOAA, USGS, EPA, NPS

10/8/2024

Exhibit 14 Wetlands Map

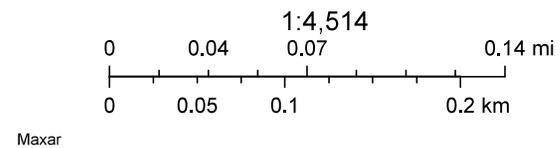
PR-CRP-000521 Demolición y Construcción Plaza del Mercado
Jose Perez Soler St and San Carlos St, Quebradillas, PR 00678
Coordinates 18.47210, -66.93844



Legend:

 Freshwater Forested/Shrub Wetland

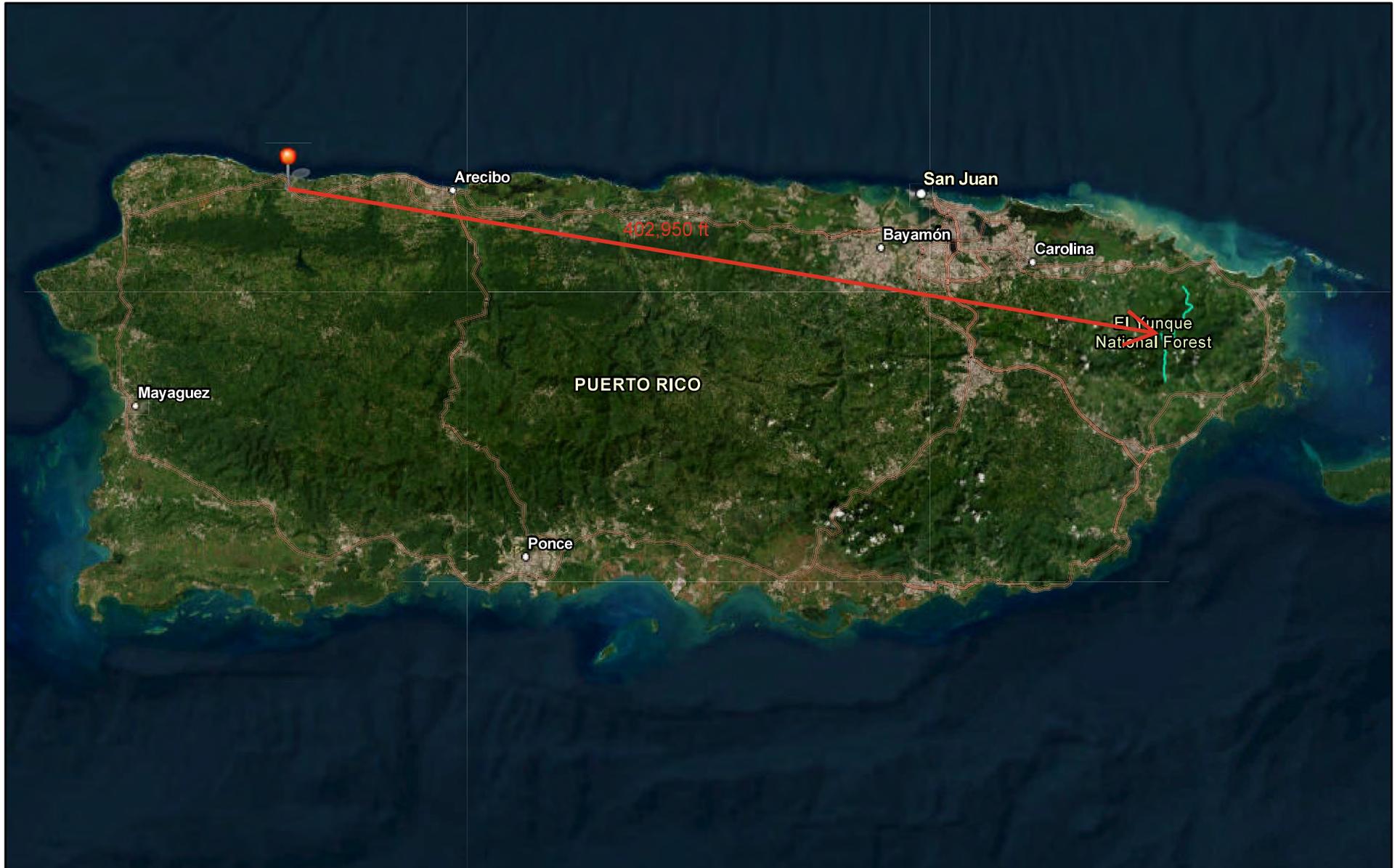
 Project Site



October 10, 2024

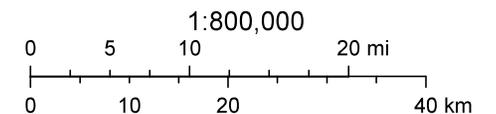
Exhibit 15 Wild and Scenic Rivers Map

PR-CRP-000521 Demolición y Construcción Plaza del Mercado Jose
Perez Soler St and San Carlos St, Quebradillas, PR 00678
Coordinates 18.47210, -66.93844



Legend:

-  Project Site
-  Wild and Scenic Rivers



Earthstar Geographics, Esri, TomTom, Garmin, Foursquare, SafeGraph, FAO, METI/NASA, USGS, NPS, USFWS