

ENVIRONMENTAL ASSESSMENT for HUD-funded Proposals

*Recommended format per 24 CFR 58.36, revised March 2005
[Previously recommended EA formats are obsolete].*



Project Identification: **SABANA VILLAGE
977 CALLE JUAN PEÑA REYES
SABANA LLANA WARD
SAN JUAN, PUERTO RICO**

Preparer: **ARCH. JORGE SALA
GS GROUP, LLC**

Responsible Entity: **PUERTO RICO DEPARTMENT OF HOUSING
(PRDOH)**

Month/Year: **MARCH 19, 2019
REV 1 – JUNE 4, 2019
REV 2 – JUNE 29, 2019**

ENVIRONMENTAL ASSESSMENT

Responsible Entity: PUERTO RICO DEPARTMENT OF HOUSING
[24 CFR 58.2(a)(7)] (PRDOH)

Certifying Officer: DENNIS G. GONZALEZ RAMOS, PE
[24 CFR 58.2(a)(2)] DISASTER RECOVERY DEPUTY SECRETARY
PUERTO RICO DEPARTMENT OF HOUSING

Project Name: SABANA VILLAGE

Project Location: 977 CALLE JUAN PEÑA REYES
SABANA LLANA WARD
SAN JUAN, PUERTO RICO

Estimated Total Project Cost: \$20,503,799.00

Grant Recipient: SABANA VILLAGE APARTMENTS, LLC
[24 CFR 58.2(a)(5)]

Recipient Address: PO BOX 8479
SAN JUAN, PR 00910-0479

Project Representative: SR. RAMFIS PEREZ RIVERA

Telephone Number: (787) 294-1535

Email: ramfis@luchapr.org

CONDITIONS FOR APPROVAL:

(List all mitigation measures adopted by the responsible entity to eliminate or minimize adverse environmental impacts. These conditions must be included in project contracts and other relevant documents as requirements). [24 CFR 58.40(d), 40 CFR 1505.2(c)]

The following conditions and mitigation measures must be adopted throughout the construction:

The following conditions and mitigation measures must be adopted throughout the construction:

1. Permits
 - a. Ensure non-expired permits prior to construction commencement. These include:
 - i. Construction Permit
 - ii. Demolition permit if required for any demolition works.
 - iii. General Consolidated Permit (Permiso General Consolidado)(See Exhibit No. 4). Includes:
 1. Erosion Control and Sediment Containment Permit (CES Permits – Permiso para el Control de la Erosión y Sedimentación)
 2. DS-3 – Permit for management of non-hazardous solid waste (Permiso de Actividad Generadora de Desperdicios Sólidos No Peligrosos)
 3. PFE – Air Pollutions Control Permit (Permiso para las Fuentes de Emision)
 - iv. Incidental Permit (Permiso Incidental a una Obra Autorizada)
 - b. If trees will be cut and/or removed from the site a permit must be obtained in conformance to Chapter 44 “Corte, Poda y Forestación del Reglamento Conjunto para la Evaluación y Expedición de Permisos Relacionados al Desarrollo de Uso de Terrenos.” See Ley Num. 133 de 1 de Julio de 1975 which prohibits cutting or trimming trees without proper permitting.
 - c. Project program includes a laundry. Developer must consult JCA to determine if a permit for air quality control as per “Reglamento para el Control de la Contaminacion Atmosferica” is necessary.
 - d. If electric generator with engines over 10 hp will be used and/or installed as part of the endeavor, a generator’s permit must be obtained from the Area de Calidad de Aire of the JCA.
 - e. Consult EPA for need of a NPDES.
 - f. Trucks transporting construction waste material must have obtained DS-1 permit.
2. Compliance with mitigation measures presented in the following documents, laws, rules and regulations:
 - a. Permit conditions
 - b. Noise ordinance as established in the “Reglamento para el Control de la Contaminación por Ruido de la Junta de Calidad Ambiental”.
 - c. If trees will be cut and/or removed from the site it must be executed in compliance with corresponding permit conditions.
 - d. Compliance with Ley 132 de 25 de junio de 1968 as amended, which regulates earthworks.
 - e. Compliance with ADS rules and regulations (See Exhibit No. 13) which include, but are not limited to, the following:
 1. Ley Num. 70-1992

2. Reglamento Nu. 6825 del 15 de junio de 2004
 3. Ley No. 136 de 25 de Julio de 2000
 4. Ley No. 191 de 30 de Julio de 1999
 5. Reglamento Conjunto
 6. Reglamento 7940 de 2 de noviembre de 2010
 7. Chapter 46, Desperdicios Solidos REgla 46.1 Disposición General
 8. Ley Num. 61 – 2002
 9. Reduse, Reuse and Recycling Plan approved by ADS.
 - f. Compliance with reforestation efforts as per Law No. 97 de junio de 1996.
 - g. Prepare an emergency plan for diesel and oil spills in conformance to the 'Reglamento de Estadares de Calidad de Agua'.
3. Construction
- a. Contractor must detain any and all construction work if archaeological deposits and/or elements of historical value are encountered during any phase of the construction. Contractor must inform the ICPR, SHPO and Contracting Officer within 24 hours of the finding.
 - b. Contractor must detain any an all construction work if any above ground and/or below ground water sources are encountered during the construction effort and shall notify the DRNA immediately upon such findings.
 - c. Contractor must take preventive measure to ensure that storm water does not carry organic and/or inorganic materials (oil, fuel spills, etc.) into neighboring bodies of water.
 - d. Contractor must take preventive measures to prevent construction dust from becoming a nuisance to neighboring populations.
 - e. Storage, management, transport and disposition of construction waste materials must me managed in conformance to the 'Reglamento para el Manejo de los Desperdicios Solidos No peligrosos de la Junta de Calidad Ambiental (JCA).

Additional Conditions:

1. **Noise Levels:** The HUD Noise criteria 24 CFR 51 limits acceptable noise levels to 65 decibels. Given that the current study reveals that this threshold is exceeded, noise mitigation measures, in compliance with 50.104 (b) must be executed.

As a measure to mitigate the aforementioned, the designer has specified windows with a "Sound Transmission Class" rating and semi-solid doors that will significantly reduce the interior's exposure to excess noise levels. Nevertheless, the developer must ensure that the full compliance with HUD acceptable noise levels is met.

2. **Asbestos Containing Building Materials:** An asbestos assessment executed in August 31, 2016 did not reveal the presence of ACBMs. However, the assessment did not include roofing samples. If the roof needs any work, the developer must ensure it is free of ACBMs and/or address in conformance to safety and environmental measures established by, but not limited to, OSHA, EPA and the 'Junta de Calidad Ambiental'.
3. **Lead Based Paints:** LBP components were found in exterior pavement markings. Removal of these must be executed in strict compliance EPA's, OSHA's and 'la Junta de Calidad Ambiental's' rules and regulations.

BREAKDOWN OF FUND SOURCES

Tax Credit Capital	Permanent Loan	Other Sources	CDBG-DR	Total Cost
14,212,110	850,000	1,919,550	3,522,139	20,503,799

ACRONYMS AND ABBREVIATIONS

Acronym	Meaning
AAA	Puerto Rico Water and Sewage Authority (Autoridad de Acueductos y Alcantarillados)
ACM	Asbestos Containing Materials
ACT	Department of Transportation (Autoridad de Carreteras)
ADS	Solid Waste Authority (Autoridad de Desperdicios Sólidos)
AEE	Puerto Rico Electric Power Authority (Autoridad de Energía Eléctrica)
APZ	Accident Potential Zone
CBRS	Coastal Barrier Resource System
CDBG-DR	Community Development Block Grant – Disaster Recovery
CES Plan	Erosion Control and Sediment Containment Plan (Plan para el Control de la Erosión y Prevención de la Sedimentación)
CZ	Clear Zone
DRNA	Department of Natural Resources (Departamento de Recursos Naturales)
EA	Environmental Assessment
EPA	Environmental Protection Agency
FEMA	Federal Emergency Management Agency
JCA	PR Environmental Quality Board (Junta de Calidad Ambiental)
ICPR	Institute of Puerto Rican Culture (Instituto de Cultura Puertorriqueña)
LBP	Lead Based Paints
NPDES	National Pollutant Discharge Elimination System
PRDOH	Puerto Rico Department of Housing (Departamento de La Vivienda)
RCZ	Runway Clear Zone
SSA	Sole Source Aquifers
SHPO	State Historic Preservations Office
USFWS	United States Fish and Wildlife Service

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1. PROJECT DESCRIPTION

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

Puerto Rico is short of suitable affordable housing for numerous low-income populations including, but not limited to, single headed households and HIV patients. Throughout the past decade PR has been wrought by an economic recession that has been further tainted by hikes in construction costs, the implementation of new taxes, the degradation of the islands credit rating and new fiscal controls over government spending.

Furthermore, Hurricane Maria stormed through the island in September of 2017 damaging hundreds of thousands of homes along the way. All together, these conditions have led to a shortage in affordable housing and present powerful obstacles to low-income families in their search for safe, sanitary and secure homes.

The purpose of this endeavor is assist in providing suitable affordable housing to low-income single headed households, HIV patients and the homeless of San Juan and the 'Metro' area.

B. Description of the Proposal: Include all contemplated actions that are either geographically or functionally a composite part of the project, regardless of the source of funding. [24 CFR 58.32, 40 CFR 1508.25]

The proposed project consists in the renovation of an existing 6 stories, 160-apartment unit building and its corresponding amenities. All units and common areas will be equipped with energy star light fixtures and appliances as well as with water sense plumbing fixtures. Project amenities include parking, a multipurpose center with kitchen, public restrooms, recycling area, administration facilities, an equipped playground and elevators.

The design complies with a federal, state, and local construction codes and requirements including, but not limited to, the Fair Housing Act, Uniform Federal Accessibility Standards and the Americans with Disabilities Act requirements.

Contemplated actions include:

- Renovation of an existing 6 story, 160 unit apartment complex including, but not limited to, the removal and replacement of all finishes, doors, windows, cabinets, appliances, mechanical, plumbing and electrical systems/fixtures. Elevators will be renovated as well as the guardhouse, cistern, and sidewalks. Deteriorated asphalt will be removed and replaced. Additional sidewalks will be built as a measure to ensure compliance with the Fair Housing Act. Furthermore, building accessories and amenities will be upgraded. All works include upgrades in order to comply with current codes.

C. Existing Conditions and Trends: Describe the existing conditions of the project area and its surroundings, and trends likely to continue in the absence of the project. [24 CFR 58.40(a)]

The proposed project is located in a fully developed, dense, urban landscape of San Juan. It is a mix-used character with numerous low-income residential projects spread throughout ½ radius from the site. Its zoning is R-5 which is none other than a high-residential zoning in conformance with San Juan's strategic goal to densify its urban land and to provide affordable dwellings to its population.

It is located at walking distance (1/4 mile) from public transportation (AMA bus line) and enjoys all infrastructure and services that could be provided by private and public entities.

The site has been vetted by local agencies and the proposed project has been positively accepted for its intended use. Puerto Rico's debt crisis accompanied by current economic trends and development efforts suggest that in the absence of this project the cost of maintaining the existing building will increase as the building ages. There is a high possibility that as time passes the building will deteriorate as the cost of maintenance increases to unaffordable levels.

2. FINDING: [58.40(g)]

X

Finding of No Significant Impact

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

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Finding of Significant Impact

(The project may significantly affect the quality of the human environment)

Preparer Signature:



Date:

JUNE 29, 2019 (REV #3)

Name/Title/Agency:

ARCH. JORGE L. SALA
GS GROUP, LLC

**RE Approving
Official Signature:**



Date:

July 2, 2019

Name/Title/Agency:

DENNIS G. GONZALEZ RAMOS, PE
DISASTER RECOVERY DEPUTY SECRETARY
PUERTO RICO DEPARTMENT OF HOUSING (PRDOH)

3. STATUTORY CHECKLIST: [24CFR §58.5]

Record the determinations made regarding each listed statute, executive order or regulation. Provide appropriate source documentation. Note reviews or consultations completed as well as any applicable permits or approvals obtained or required. Note dates of contact or page references. Provide compliance or consistency documentation. Attach additional material as appropriate. Note conditions, attenuation or mitigation measures required.

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
<p>Historic Preservation [36 CFR 800]</p>	<p>Yes No <input type="checkbox"/> <input checked="" type="checkbox"/></p>	<p>A letter from SHPO dated April 6, 2017 directed to Luis Fernandez Trinchet supports a finding of NO HISTORIC PROPERTIES AFFECTED within the project's area of potential effects.</p> <p>Furthermore, the Department of Archeology & Historical Conservation from the Instituto de Cultura Puertorriqueña has evaluated the project as presented by the developer and concluded that the possibility that the project will impact any archaeological and/or historical resources is minimal. It further recognizes that the project is not found within any historic zones nor does it impact any historic properties. Therefore, the department has no objection to the development of this project as formally stated in the 'Recomeandación Ambiental' letter dated 15/AUG/2016.</p> <p>See Exhibit No. 11 – SHPO Determination See Exhibit No. 13 – ICPR Determination</p>
<p>Floodplain Management [24 CFR 55, Executive Order 11988]</p>	<p>Yes No <input type="checkbox"/> <input checked="" type="checkbox"/></p>	<p>The selected site is not located in a floodplain. It stands within the Zone X defined as an area determined to be outside the 500-year flood by FEMA.</p> <p>All Municipalities of Puerto Rico participate in the National Flood Insurance Program and are currently is good standing with the agency.</p> <p>See Exhibit No. 1 – FEMA Firmette</p>

Wetlands Protection [Executive Order 11990]	Yes No <input type="checkbox"/> <input checked="" type="checkbox"/>	The project site is not located on any riparian nor wetlands. Furthermore, a permit won't be required as per Section 404 of the Clean Water Act for the project will not require the discharge of dredger or fill material into wetlands. See Exhibit No. 2 – Wetlands Map
Coastal Zone Management Act [Sections 307(c), (d)]	Yes No <input type="checkbox"/> <input checked="" type="checkbox"/>	Puerto Rico's coastal zone generally extends 1,000 meters (one kilometer) inland. Given the distance from the project to the nearest body of water (1.4 km) and in consideration to the landscape and infrastructure that lie between the two, there are no anticipated adverse effects from the construction endeavor or from its intended use. See Exhibit No. 3 –Coastal Zone Management
Sole Source Aquifers [40 CFR 149]	Yes No <input type="checkbox"/> <input checked="" type="checkbox"/>	Puerto Rico is included in Region II of the USA EPA designated sole-source aquifer regions. The project is not served by designated sole-source aquifers nor is it located within a sole source aquifer watershed. See Exhibit No. 4 – Sole Source Aquifers
Endangered Species Act [50 CFR 402]	Yes No <input type="checkbox"/> <input checked="" type="checkbox"/>	The proposed project presents the renovation of an existing building located in a densely populated, highly developed, mixed-use urban landscape. The US Fish and Wildlife Service - National Wildlife Refuge Systems maps does not identify this area as a Wildlife Refuge. The proposed project qualifies for a 'blanket clearance letter'. See Exhibit No. 5 – Endangered Species & Ecology
Wild and Scenic Rivers Act [Sections 7(b), (c)]	Yes No <input type="checkbox"/> <input checked="" type="checkbox"/>	Puerto Rico has approximately 5,385 river miles. Only 8.9 miles of three rivers are designated as wild & scenic. The portions of these rivers that qualify under the aforementioned are located more than 14 miles east of the project site. They are not in harm's way from this project. See Exhibit No. 6 - Wild and Scenic Rivers
Air Quality [Clean Air Act, Sections 176(c) and (d), and 40 CFR 6, 51, 93]	Yes No <input type="checkbox"/> <input checked="" type="checkbox"/>	The project site is in the Sabana Llana ward of the Municipality of San Juan. It is not currently

		<p>listed as a nonattainment area.</p> <p>With respects to an impact due to the construction effort, the contractor must endeavor to keep dust from becoming a nuisance to neighboring areas.</p> <p>See Exhibit No. 7 – Air Quality See Exhibit No. 14 – Environmental Quality Board (Junta de Calidad Ambiental)</p>
<p>Farmland Protection Policy Act [7 CFR 658]</p>	<p>Yes No <input type="checkbox"/> <input checked="" type="checkbox"/></p>	<p>The proposed project presents the renovation of an existing building located in a densely populated, highly developed, mixed-use urban landscape. It does not include soils designated as 'Prime' for agricultural purposes.</p> <p>See Exhibit No. 15 – Existing Conditions/ Site Images</p>
<p>Environmental Justice [Executive Order 12898]</p>	<p>Yes No <input type="checkbox"/> <input checked="" type="checkbox"/></p>	<p>The development is meant to serve the pressing need for affordable housing to in San Juan's low-income population, HIV patients and the homeless. It counts with the complete support from the Municipality.</p> <p>See Exhibit No. 8 – Environmental Justice</p>

HUD Environmental Standards

Determination and Compliance Documentation

<p>Noise Abatement and Control [24 CFR 51 B]</p>	<p>Yes No <input checked="" type="checkbox"/> <input type="checkbox"/></p>	<p>A specific-scope noise survey for day and night periods was carried out to measure noise levels at the project site. The study measured a daytime period weighted average Ldn = 65.6 dB and nighttime weighted average Ldn = 69.1 db for a calculated 24 hours weighted LDN average of 66.9 dB.</p> <p>The HUD Noise criteria 24 CFR 51 limits acceptable noise levels to 65 decibels. Given that the current study reveals that this threshold is exceeded, noise mitigation measures, in compliance with 50.104 (b) must be executed.</p> <p>As a measure to mitigate the aforementioned, the designer has specified windows with a "Sound Transmission Class" rating and semi-solid doors that will significantly reduce the interior's exposure to excess noise levels.</p>
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		<p>Nevertheless, the developer must ensure that the full compliance with HUD acceptable noise levels is met.</p> <p>See Exhibit A – Noise Assessment</p>
<p>Toxic/Hazardous/Radioactive Materials, Contamination, Chemicals or Gases [24 CFR 58.5(i)(2)]</p>	<p>Yes No <input type="checkbox"/> <input checked="" type="checkbox"/></p>	<p>A Phase I Environmental Site Assessment dated January 2019 and in conformance with the scope and limitations of ASTM 1527-13 determined that there were no recognized environmental conditions (RECs) associated with the property usage or on the project site. No further investigation of the site is recommended.</p> <p>See Exhibit B – Phase 1 EA</p>
<p>Siting of HUD-Assisted Projects near Hazardous Operations [24 CFR 51 C]</p>	<p>Yes No <input type="checkbox"/> <input checked="" type="checkbox"/></p>	<p>The proposed project presents the renovation of an existing building located in a densely populated, highly residential, mixed-use urban landscape.</p> <p>Project is surrounded commercial, residential and institutional buildings that do not use above ground storage of explosive or flammable materials. No aboveground storage tanks (ASTs), which could contain explosive or flammable materials are evident within a 1-mile radius of the project site.</p> <p>See Exhibit No. 15 – Existing Conditions/ Site Images</p>
<p>Airport Clear Zones and Accident Potential Zones [24 CFR 51 D]</p>	<p>Yes No <input type="checkbox"/> <input checked="" type="checkbox"/></p>	<p>The project site is approximately 12,000 feet south of Luis Muñoz Marin International airport, a joint civil-military airport. However, it is not located within a Runway Potential Zone/Clear Zone (RPZ/CZ) or Accident Potential Zone (APZ).</p> <p>See Exhibit No. 9 – Airport Hazards</p>

Other Factors

Source or Documentation

<p>Flood Disaster Protection Act [Flood Insurance] [§58.6(a)]</p>	<p>Yes No <input type="checkbox"/> <input checked="" type="checkbox"/></p>	<p>The selected site is not located in a floodplain. It stands within the Zone X defined as an area determined to be outside the 500-year flood by FEMA.</p> <p>All Municipalities of Puerto Rico participate in the National Flood Insurance Program and are currently is good standing with the agency.</p> <p>See Exhibit No. 1 – FEMA Firmette</p>
<p>Coastal Barrier Resources Act/ Coastal Barrier Improvement Act [§58.6(c)]</p>	<p>Yes No <input type="checkbox"/> <input checked="" type="checkbox"/></p>	<p>The project is located 1.4 km from the project to the nearest body of water (a lagoon). The distance and the built environment that lies between the two serve as a buffer protecting the coast from the renovation endeavor and future project use.</p> <p>The Coastal Barrier Resource System Mapper further confirms that the site is not identified as a 'protected area.</p> <p>See Exhibit No. 10 – Coastal Barriers Resource Act</p>
<p>Airport Runway Clear Zone or Clear Zone Disclosure [§58.6(d)]</p>	<p>Yes No <input type="checkbox"/> <input checked="" type="checkbox"/></p>	<p>The project site is approximately 12,000 feet south of Luis Muñoz Marin International airport, a joint civil-military airport. However, it is not located within a Runway Potential Zone/Clear Zone (RPZ/CZ) or Accident Potential Zone (APZ).</p> <p>See Exhibit No. 9 – Airport Hazards</p>
<p>Other Factors</p>		<p>N/A</p>

4. ENVIRONMENTAL ASSESSMENT CHECKLIST

[Environmental Review Guide HUD CPD 782, 24 CFR 58.40; Ref. 40 CFR 1508.8 & 1508.27]

Evaluate the significance of the effects of the proposal on the character, features and resources of the project area. Enter relevant base data and verifiable source documentation to support the finding. Then enter the appropriate impact code from the following list to make a determination of impact. **Impact Codes:** (1) - No impact anticipated; (2) - Potentially beneficial; (3) - Potentially adverse; (4) - Requires mitigation; (5) - Requires project modification. Note names, dates of contact, telephone numbers and page references. Attach additional material as appropriate. Note conditions or mitigation measures required.

Land Development	Code	Source or Documentation
Conformance with Comprehensive Plans and Zoning	2	The lot under consideration is zoned specifically for high-density residential facilities. Furthermore, the Municipality has eagerly endorsed the development.
Compatibility and Urban Impact	2	<p>The proposed project presents the renovation of an existing building located in a densely populated, highly residential, mixed-use urban landscape. Its intended use will not change from its current one. It is and will remain a residential complex for low-income peoples.</p> <p>The project also conforms to the best interests of a population that is in dire need of affordable housing and with the Municipality's plans to establish land uses. It promotes neighborhood stabilization, stimulates rental housing and preserves subsidy assisted units.</p>
Slope	1	<p>The proposed project presents the renovation of an existing building within an impacted and relatively flat site. Site works are limited to improving existing infrastructure through the demolition, disposal and reconstruction of:</p> <ul style="list-style-type: none"> • Chain link fences • 4 HC parking ramps • 500 sf of sidewalks • 350 lf of concrete curbs • 150 sm of asphalt pavement • New site works include replacing and adding quantities of the aforementioned demolition items, a renovated garbage station and the refurbishing of existing site amenities such as the basketball court and guardhouse.
Erosion	1	<p>A potential for erosion is minimal. The proposed project presents the renovation of an existing building within an impacted and relatively flat site. Site works are limited to improving existing infrastructure through the demolition, disposal and reconstruction of:</p> <ul style="list-style-type: none"> • Chain link fences • 4 HC parking ramps • 500 sf of sidewalks • 350 lf of concrete curbs • 150 sm of asphalt pavement • New site works include replacing and adding quantities of the aforementioned demolition items, a renovated garbage station and the refurbishing of existing site

		amenities such as the basketball court and guardhouse.
Soil Suitability	1	<p>Investigation of subsoil disclosed that there are no significant soil related issues that would impede the renovation endeavor as long as the recommendations and procedures provided in said report are applied.</p> <p>Given that renovation's scope of work has limited site improvements with only a new, underground cistern to be constructed, there is no negative impact anticipated due to the project.</p> <p>For further details see geotechnical report.</p>
Hazards and Nuisances including Site Safety	1	<p>The project site does not present any particular construction logistic difficulties to the contractor. Hence, the contractor should not be facing any safety, hazard or nuisances other than those typical to construction projects.</p> <p>Nevertheless, the contractor must endeavor to provide a safe environment, on and off-site, throughout the construction. This includes compliance with all safety and environmental measures established by, but not limited to, OSHA, EPA and the 'Junta de Calidad Ambiental'.</p> <p>If the work schedule calls for the partial occupancy of the apartment units during construction, the contractor must ensure occupant safety and maintain basic utilities available to occupants at all times.</p> <p>Asbestos Containing Building Materials An asbestos assessment executed in August 31, 2016 did not reveal the presence of ACBMs. However, the assessment did not include roofing samples. If the roof needs any work, the developer must ensure it is free of ACBMs and/or address in conformance to safety and environmental measures established by, but not limited to, OSHA, EPA and the 'Junta de Calidad Ambiental'.</p> <p>Lead Based Paints LBP components were found in exterior pavement markings. Removal of these must be executed in strict compliance EPA's, OSHA's and 'la Junta de Calidad Ambientals' rules and regulations.</p> <p>See Exhibit C – Asbestos Containing Materials Inspection Report See Exhibit D – Lead Based Paint Inspection Report See Exhibit E – Lead Based Paints Abatement Plan</p>
Energy Consumption	1	The proposed project presents the renovation of an existing building that is serviced by the local power company (AEE). All

		<p>existing light fixtures and appliances will be substituted with new, energy star rated equipment. The demand for electricity generated by the project won't require an expansion of power facilities nor would it have any anticipated adverse effects.</p> <p>The project has been endorsed by the AEE.</p>
<p>Noise - Contribution to Community Noise Levels</p>	<p>1</p>	<p>The proposed project presents the renovation of an existing residential building that is currently in use. Its intended purpose is exactly the same as the current one and it does not differ from the vernacular of the area within which it stands. Given that the neighborhood is mixed use with various multi-family residential projects and single-family homes within walking distance, the noise contribution to the community will be no different to that which already exists.</p> <p>With respects to construction noise, it must be mitigated by standard procedures and measures as requested by Puerto Rico's environmental quality board and required in their 'Reglamento para el Control de la Contaminación por Ruido'.</p>
<p>Air Quality Effects of Ambient Air Quality on Project and Contribution to Community Pollution Levels</p>	<p>1</p>	<p>The proposed project presents the renovation of an existing residential building that is currently in use. Its intended purpose is exactly the same as the current one and it does not differ from the vernacular of the area within which it stands. Given that the neighborhood is mixed use with various multi-family residential projects and single-family homes within walking distance, there is no anticipated adverse effect on ambient air quality or pollution levels due to the building's use.</p> <p>Furthermore, the project considers energy savings measures that translate into less pollutants being emitted into the air.</p> <p>With respects to the construction, the contractor must endeavor to minimize construction dust from becoming a nuisance to the neighborhood and environment through mitigation measures that include, but are not limited to, a CES plan to be developed and maintained throughout the full length of the construction.</p>
<p>Environmental Design Visual Quality - Coherence, Diversity, Compatible Use and Scale</p>	<p>2</p>	<p>The built environment surrounding the proposed project site serves the residential, commercial and institutional needs of San Juan. Its architecture is an eclectic blend of modern and contemporary structures of varying scale and aesthetics most of which are victims of deferred maintenance.</p> <p>The height and scale of the existing building to be renovated does not stand out within the area. Furthermore, it is in full compliance with the zoning and interest of the Municipality's plans for this particular area. Its renovation will help to improve the urban fabric of the area.</p>

Socioeconomic	Code	Source or Documentation
Demographic Character Changes	1	The proposed project presents the renovation of an existing residential building that is currently in use. Its intended purpose is exactly the same as the current one and it does not differ from the vernacular of the area within which it stands. Given that the neighborhood is mixed use with various multi-family residential projects and single-family homes within walking distance, there is no anticipated adverse effect from the renovation project.
Displacement	1	There will be neither displacement nor adverse socioeconomic effects due to the fact that the project is a renovation of an existing residential building that is currently in use and which is intended to serve the same population it currently does. It does not differ from the vernacular of the area within which it stands.
Employment and Income Patterns	1	There should be no adverse effects on employment and income patterns due to the fact that the project is a renovation of an existing residential building that is currently in use and which is intended to serve the same population it currently does, under the same subsidized housing programs.

**Community Facilities
and Services**

Code

Source or Documentation

Educational Facilities	1	There should be no adverse effects on educational facilities due to the fact that the project is a renovation of an existing residential building that is currently in use and which is intended to serve the same population it currently does, under the same subsidized housing programs.
Commercial Facilities	1	There should be no adverse effects on commercial facilities due to the fact that the project is a renovation of an existing residential building that is currently in use and which is intended to serve the same population it currently does, under the same subsidized housing programs.
Health Care	1	There are at least three full-service hospitals within a 2-mile radius from the project site. The Auxilio Mutuo Hospital, in particular, is part of a medical complex that includes a medical office building and pharmacy. There are no anticipated adverse effects on health care services.
Social Services	2	Its main purpose of this project is to acquire and rehabilitate an affordable rental housing project aimed to assist underserved single headed households, homeless and the HIV/AIDS population; three population sectors of significant concern given their social and economic, and health disadvantages.
Solid Waste	1	Existing solid waste removal services are available to the existing surrounding commerce, neighborhood and residential complexes. The proposed project calls for the adaptive reuse of the existing structure. Recycling must be implemented and enforced as per standards set by the Solid Waste Authority (Autoridad de Desperdicios Sólidos' - ADS).
Waste Water	1	The project will continue to be served by the existing aqueduct infrastructure provided by the local water and sewer service company known as 'La Autoridad de Acueductos y Alcantarillados' (aka AAA). The AAA has endorsed the project.
Storm Water	1	The selected site is not located in a floodplain. It stands within the Zone X defined as an area determined to be outside the 500-year flood by FEMA. A Hydrologic and Hydraulic Analysis is not necessary as stated and certified by the architect of record in his letter of certification dated December 15, 2016.
Water Supply	1	The project will be served by the existing aqueduct infrastructure provided by the local water and sewer service company known as 'La Autoridad de Acueductos y Alcantarillados' (aka AAA).

		The AAA has endorsed the project.
Public Safety - Police	1	State Police Station Hato Rey Este is located approximately 1.25 northwest of the site and Municipal Police Station is located .7 miles east south-east from the project site.
Fire Department	1	The nearest fire station is located less than 2.5 miles from the site. The project itself is readily accessible from the station given that at least ¾ of the distance is covered through principal streets and/or avenues. The project has been endorsed by the local Fire Department. Sprinklers and a Fire Protection Cistern are part of the project's scope of work.
- Emergency Medical	1	There are at least three full-service hospitals within a 2-mile radius from the project site. The Auxilio Mutuo Hospital, in particular, is part of a medical complex that includes a medical office building and pharmacy. There are no anticipated adverse effects on health care services.
Open Space and Recreation - Open Space	1	The project is situated in a densely populated, mixed-use, urban landscape area of the San Juan Metro Area. San Juan is by far the most developed area in Puerto Rico and it hosts the island's financial, cultural, sports and tourism centers. A wealth of open space areas such as beaches, parks, historical sites such as 'El Morro' and sports facilities are readily accessible.
- Recreation	1	The San Juan region holds numerous sports events and entertainment venues throughout its various sports complexes and arenas. In particular, the city has been the host of events within the sports community, including the Pan American Games, Central American and Caribbean Games, World Baseball Classics, the Caribbean Series and the Special Olympics and MLB. Apart from sporting events, San Juan hosts numerous musical, artistic, and cultural events throughout the year. Furthermore, San Juan is Puerto Rico's tourism and commercial center where hotels, commercial malls, movie theaters, and performing arts facilities abound.
- Cultural Facilities	1	San Juan is the Mecca for Puerto Rico's cultural events. It is the home of the 'Bellas Artes', the principal performing arts center in the island, the Old San Juan historic district, museums and galleries (to name a few).
Transportation	1	Bus Route runs through Julio Andino Street, which is located ¼ mile from the projects guardhouse. It makes a stop at UPR station, which hosts numerous exchange routes including the local subway/train station.

		The Municipality has stated that it will provide supportive services to the tenants of the project. These include transportation.
--	--	---

Natural Features	Source or Documentation	
Water Resources	1	<p>No natural water supplies will be used.</p> <p>All potable water supply services will be provided by 'La Autoridad de Acueductos y Alcantarillados (aka AAA), the local water and sewer service company.</p> <p>The project has been endorsed by the agency.</p>
Surface Water	1	<p>The selected site is not located in a floodplain. It stands within the Zone X defined as an area determined to be outside the 500-year flood by FEMA.</p> <p>A Hydrologic and Hydraulic Analysis is not necessary as stated and certified by the architect of record in his letter of certification dated December 15, 2016.</p>
Unique Natural Features and Agricultural Lands	1	<p>The proposed project presents the renovation of an existing building located in a densely populated, highly developed, mixed-use urban landscape. No new structures or site works of significant value are contemplated. Hence, there will be no impact on Natural Features and Agricultural Lands.</p>
Vegetation and Wildlife	1	<p>The proposed project presents the renovation of an existing building located in a densely populated, highly developed, mixed-use urban landscape. No new structures or site works of significant value are contemplated and existing green areas will be maintained. Hence, there will be no impact on vegetation and Agricultural Lands.</p>

5. LIST OF SOURCES, AGENCIES, AND PERSONS CONTACTED

1. National Parks Services
 - a. <https://www.nps.gov/subjects/nnlandmarks/index.htm>
2. FEMA Flood Map Service Center
 - a. <https://msc.fema.gov/portal/home>
3. The National Flood Insurance Program Community Status Book
 - a. <https://www.fema.gov/cis/PR.html>
4. Junta de Planificación de Puerto Rico
5. National Wetlands Inventory
 - a. <https://www.fws.gov/wetlands/data/mapper.html>
6. Puerto Rico Coastal Zone Management Program
 - a. <http://drna.pr.gov/historico/oficinas/arn/recursosvivientes/costasreservasrefugios/pmzc/pmzc/pmzc2009/PMZCPR%20ingles%202009%20final.pdf>
7. Office for Coastal Zone Management
 - a. <https://coast.noaa.gov/czm/mystate/#puertorico>
8. United States Environmental Protection Agency
 - a. <https://www.epa.gov/dwssa>
 - b. <https://epa.maps.arcgis.com/apps/webappviewer/index.html?id=9ebb047ba3ec41ada1877155fe31356b>
 - c. <https://www3.epa.gov/airquality/greenbook/tnca.html>
 - d. https://www3.epa.gov/airquality/greenbook/anayo_pr.html
 - e. <https://geopub.epa.gov/myem/efmap/index.html?ve=13,18.466328,-66.104730&pText=San%20Juan+>
9. National Wildlife Refuge System
 - a. <https://www.fws.gov/refuges/>
 - b. <https://www.fws.gov/refuges/refugeLocatorMaps/PuertoRico.html>
 - c. https://www.fws.gov/refuges/maps/NWRS_National_Map.pdf
10. USA National Wild and Scenic Rivers
 - a. www.rivers.gov
11. Federal Aviation Administration
 - a. https://www.faa.gov/airports/planning_capacity/npias/reports/media/NPIAS-Report-2019-2023-Appendix-B.pdf
12. Google Earth
 - a. <https://earth.google.com>
13. Google Maps
 - a. <https://maps.google.com>
14. USFWS Coastal Barrier Resources System
 - a. <https://www.fws.gov/cbra>
15. HUD
 - a. <https://www.hudexchange.info/environmental-review/>
16. Office of the Secretary of Defense

6. SUMMARY OF FINDINGS AND CONCLUSIONS

a. Alternatives and Project Modifications Considered [24 CFR 58.40(e), Ref. 40 CFR1508.9]

(Identify other reasonable courses of action that were considered and not selected, such as other sites, design modifications, or other uses of the subject site. Describe the benefits and adverse impacts to the human environment of each alternative and the reasons for rejecting it.)

The project consists in the renovation of an existing residential building that is currently used for affordable housing under subsidized government programs. It is situated in a densely populated, mixed-use neighborhood with zoning specifications that allows for high-density residential projects. Furthermore, the endeavor is 'up to par' with the Municipalities interest in residential developments tailored to low-income families.

Given the character of the community within which it lays, the available infrastructure, access to principal roads and highways, and its readily accessible location, the site is perfectly suitable for the intended use. But what makes this project particularly feasible is that it proposes the renovation of an existing building rather than the construction of a new one over a vacant, green site. Puerto Rico has to adapt to product of our current economic trends and population changes. PR can't afford to continue ignoring the fact that the AAA, AEE and its general infrastructure including its building landscape have fallen victims to deferred maintenance due to poor administration and the lack of proper funding. Upkeep and maintenance of the aforementioned is key to help improve our urban fabric. This included the maintenance and renovation of existing buildings. Hence, the renovation of an existing multi-family residential structure for affordable housing makes perfect sense over any other alternative.

b. No Action Alternative [24 CFR 58.40(e)]

(Discuss the benefits and adverse impacts to the human environment of not implementing the preferred alternative).

In the absence of the renovation project the existing structure will experience an increase in the demand for capital improvements. If its budget can't keep up with the demand works, the building will slowly but surely deteriorate to the point that it either provokes the move-out of its existing tenants and/or presents a safety issue for them. For example, assuming proper maintenance, elevators have a 15-20 year life span. To extended their use they must be refurbished and/or replaced as deemed necessary. Either way, the work is relatively expensive. If not executed, the elevators may become a safety concern for their users and will provoke move-outs.

7. MITIGATION MEASURES RECOMMENDED

[24 CFR 58.40(d), 40 CFR 1508.20] (Recommend feasible ways in which the proposal or its external factors should be modified in order to minimize adverse environmental impacts and restore or enhance environmental quality.)

1. Compliance with mitigation measures presented in the following documents, laws, rules and regulations:
 - a. Permit conditions
 - b. Noise ordinance as established in the “Reglamento para el Control de la Contaminación por Ruido de la Junta de Calidad Ambiental”.
 - c. If trees will be cut and/or removed from the site it must be executed in compliance with corresponding permit conditions.
 - d. Compliance with Ley 132 de 25 de junio de 1968 as amended, which regulates earthworks.
 - e. Compliance with ADS rules and regulations (See Exhibit No. 13) which include, but are not limited to, the following:
 1. Ley Num. 70-1992
 2. Reglamento Nu. 6825 del 15 de junio de 2004
 3. Ley No. 136 de 25 de Julio de 2000
 4. Ley No. 191 de 30 de Julio de 1999
 5. Reglamento Conjunto
 6. Reglamento 7940 de 2 de noviembre de 2010
 7. Chapter 46, Desperdicios Solidos REgla 46.1 Disposición General
 8. Ley Num. 61 – 2002
 9. Reduse, Reuse and Recycling Plan approved by ADS.
 - f. Compliance with reforestation efforts as per Law No. 97 de junio de 1996.
 - g. Prepare an emergency plan for diesel and oil spills in conformance to the ‘Reglamento de Estadares de Calidad de Agua’.
2. Construction
 - a. Contractor must detain any and all construction work if archaeological deposits and/or elements of historical value are encountered during any phase of the construction. Contractor must inform the ICPR, SHPO and Contracting Officer within 24 hours of the finding.
 - b. Contractor must detain any an all construction work if any above ground and/or below ground water sources are encountered during the construction effort and shall notify the DRNA immediately upon such findings.
 - c. Contractor must take preventive measure to ensure that storm water does not carry organic and/or inorganic materials (oil, fuel spills, etc.) into neighboring bodies of water.
 - d. Contractor must take preventive measures to prevent construction dust from becoming a nuisance to neighboring populations.
 - e. Storage, management, transport and disposition of construction waste materials must me managed in conformance to the ‘Reglamento para el Manejo de los Desperdicios Solidos No peligrosos de la Junta de Calidad Ambiental (JCA).

Additional:

4. **Noise Levels:** The HUD Noise criteria 24 CFR 51 limits acceptable noise levels to 65 decibels. Given that the current study reveals that this threshold is exceeded, noise mitigation measures, incompliance with 50.104 (b) must be executed.

As a measure to mitigate the aforementioned, the designer has specified windows with a “Sound Transmission Class” rating and semi-solid doors that will significantly reduce the interior’s exposure to excess noise levels. Nevertheless, the developer must ensure that the full compliance with HUD acceptable noise levels is met.

5. **Asbestos Containing Building Materials:** An asbestos assessment executed in August 31, 2016 did not reveal the presence of ACBMs. However, the assessment did not include roofing samples. If the roof needs any work, the developer must ensure it is free of ACBMs and/or address in conformance to safety and environmental measures established by, but not limited to, OSHA, EPA and the ‘Junta de Calidad Ambiental’.
6. **Lead Based Paints:** LBP components were found in exterior pavement markings. Removal of these must be executed in strict compliance EPA’s, OSHA’s and ‘la Junta de Calidad Ambiental’s’ rules and regulations.

8. APPENDIX A - Exhibits

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Exhibit No. 1
Floodplain Management - FEMA Firmette

National Flood Hazard Layer FIRMette



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, AE</i>
		With BFE or Depth <i>Zone AE, AD, 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
GENERAL STRUCTURES		Area of Undetermined Flood Hazard <i>Zone D</i>
		Channel, Culvert, or Storm Sewer
OTHER FEATURES		Levee, Dike, or Floodwall
		Cross Sections with 1% Annual Chance Water Surface Elevation
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.
		20.2
		17.5
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
	Coastal Transect Baseline	
	Profile Baseline	
	Hydrographic Feature	

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 6/26/2019 at 2:44:30 PM 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.

SOURCE: FEMA Flood Map Service Center
<https://msc.fema.gov/portal/home>

Exhibit No. 2
Wetland Protection – Wetlands Map



Sabana Village



June 26, 2019

Wetlands

-  Estuarine and Marine Deepwater
-  Estuarine and Marine Wetland

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

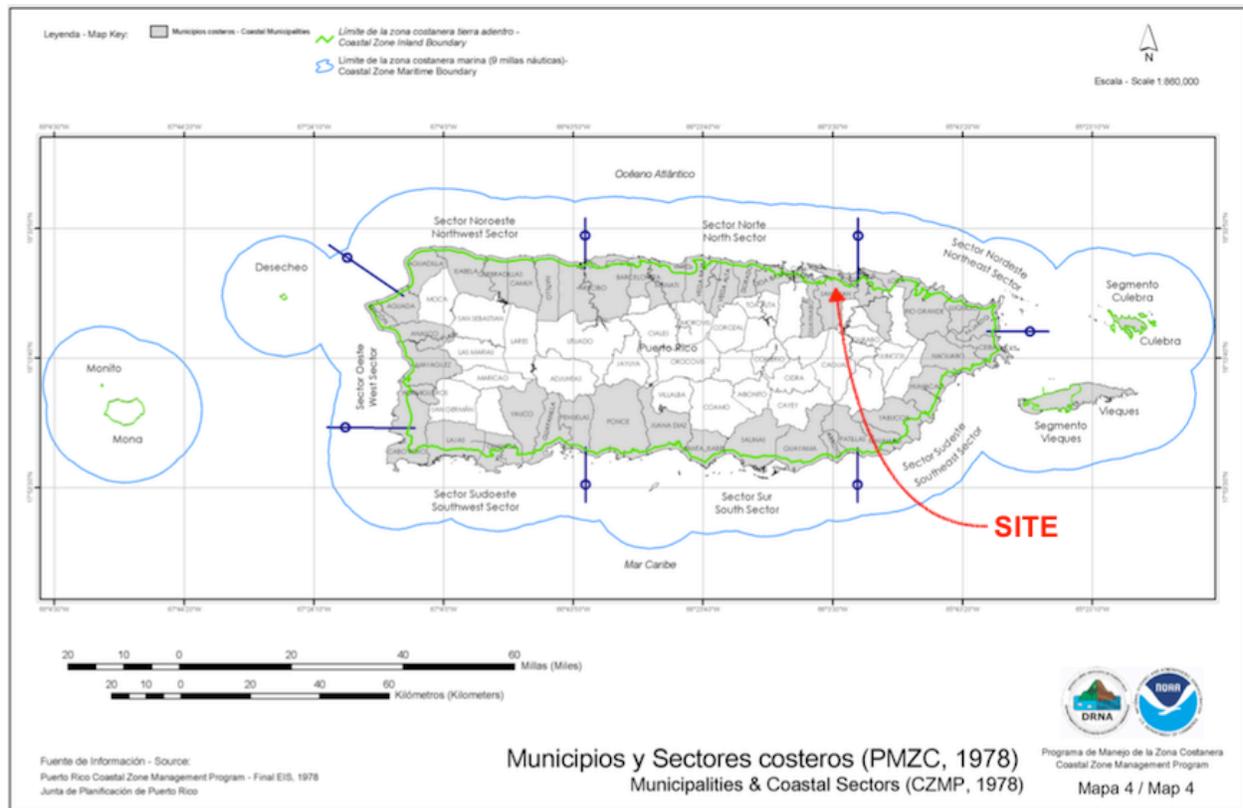
-  Lake
-  Other
-  Riverine

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

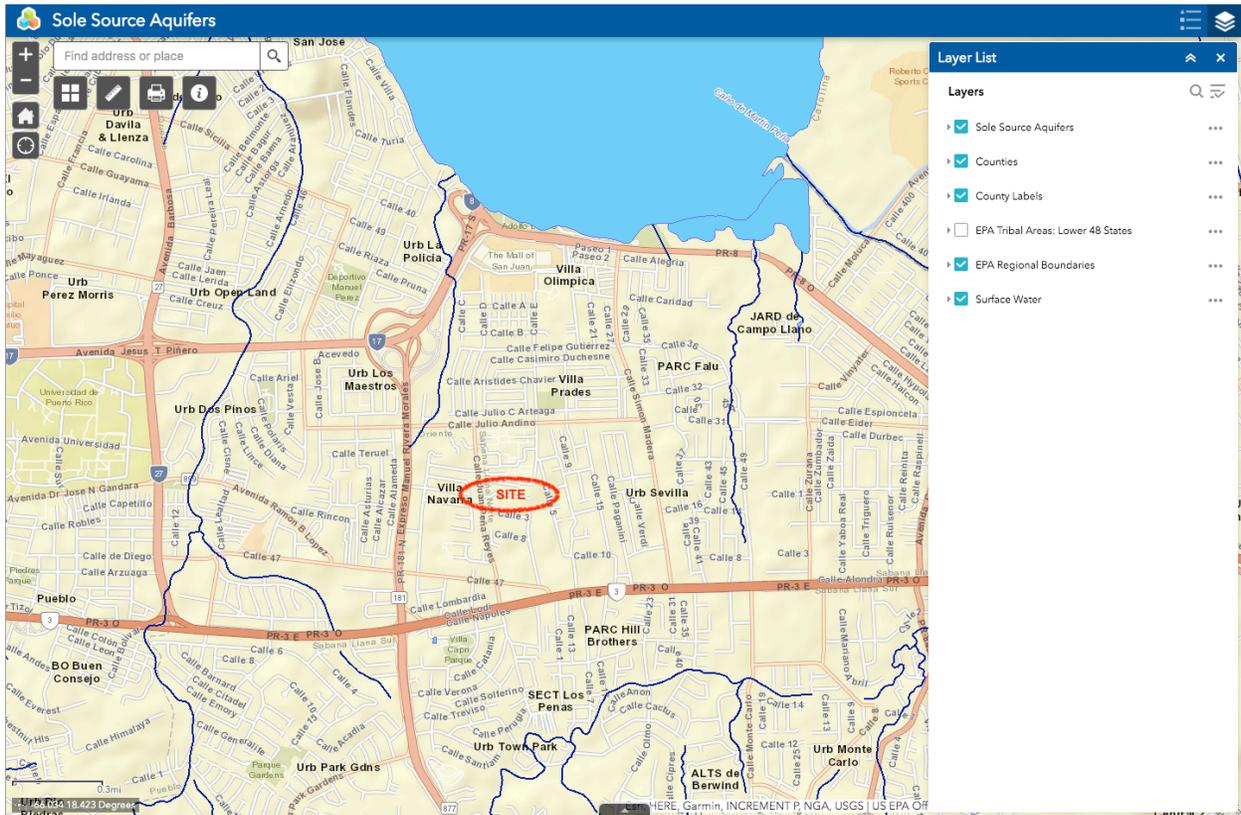
SOURCE: www.fws.gov/wetlands/data/mapper.html

Exhibit No. 3 Coastal Zone Management



SOURCE: Puerto Rico Coastal Zone Management Program

Exhibit No. 4 Sole Source Aquifers (SSA)



SOURCE: <https://www.epa.gov/dwssa>

Exhibit No. 5a
Endangered Species and Ecology - USFWS

CESFO COPY
FILED by *Angel Colon*

DESIGNER DG GROUP
Engineers * Architects * Environmental Consultants

Scanned

RECEIVED

JUL 27 2016

U.S. Fish & Wildlife Service

8 de Julio de 2016

Sr. Edwin Muñiz
Field Supervisor
Fish & Wild Life Service
PO Box 9023935
Cabo Rojo, PR 00902-3935

RE: Modernización Sabana Village Apartments
Bo. Sabana Llana, San Juan

Estimado Sr. Muñiz:

Sometemos ante la consideración de su agencia los documentos "Self-Certification for the Compliance with Blanket Clearance Letter for USVI and Puerto Rico". El proyecto en referencia se estará sometiendo para participación de fondos federales bajo el programa HOME del Departamento de Vivienda Federal (HUD) por sus siglas en inglés.

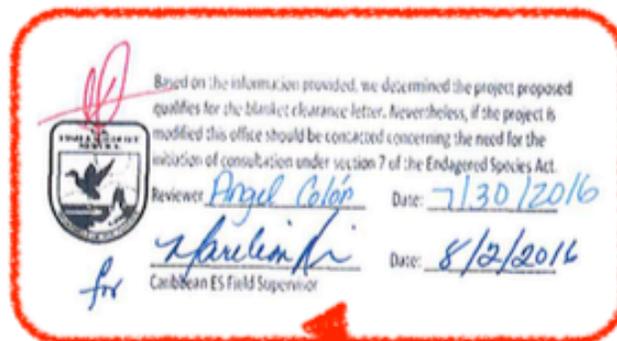
Dicho proyecto fue construido en el año 2000, cuando recibió \$1, 370,500.00 de fondos federales del programa HOME del departamento de Vivienda Federal.

Se incluye memorial explicativo de los trabajos de modernización a realizarse en el proyecto, foto aérea, mapa topográfico y fotos.

Agradecido de la atención sirva dar a esta solicitud queda,

Cordialmente,


Miguel A. San Miguel, P.E.
Socio Principal



BLANKET CLEARANCE

Carr. 174 Bloque 11 #21, Santa Rosa Bayamón, P.R. 00959
P.O. Box 428 Bayamón, P.R. 00960-0428
Tel. 787-269-6650 Fax. 787-740-2658
email: sodg@icepr.com

**Self – Certification for the Compliance with Blanket Clearance
 Letter for USVI and Puerto Rico**

Endangered Species Act (ESA) Certification

The U.S. Fish and Wildlife Service, Caribbean Ecological Services Field Office developed a Blanket Clearance Letter for telecommunication towers to be located on urbanized areas and vacant lots deprived of forested habitats, and determined that projects in compliance with the following criteria are not likely to adversely affect federally-listed species.

The Municipality of (Municipality) or Designer Group, certifies that the following project Modernization of Sabana Village Apartments funded by Housing & Urban Development (HUD) and located at Sabana Llana Ward, San Juan complies with:

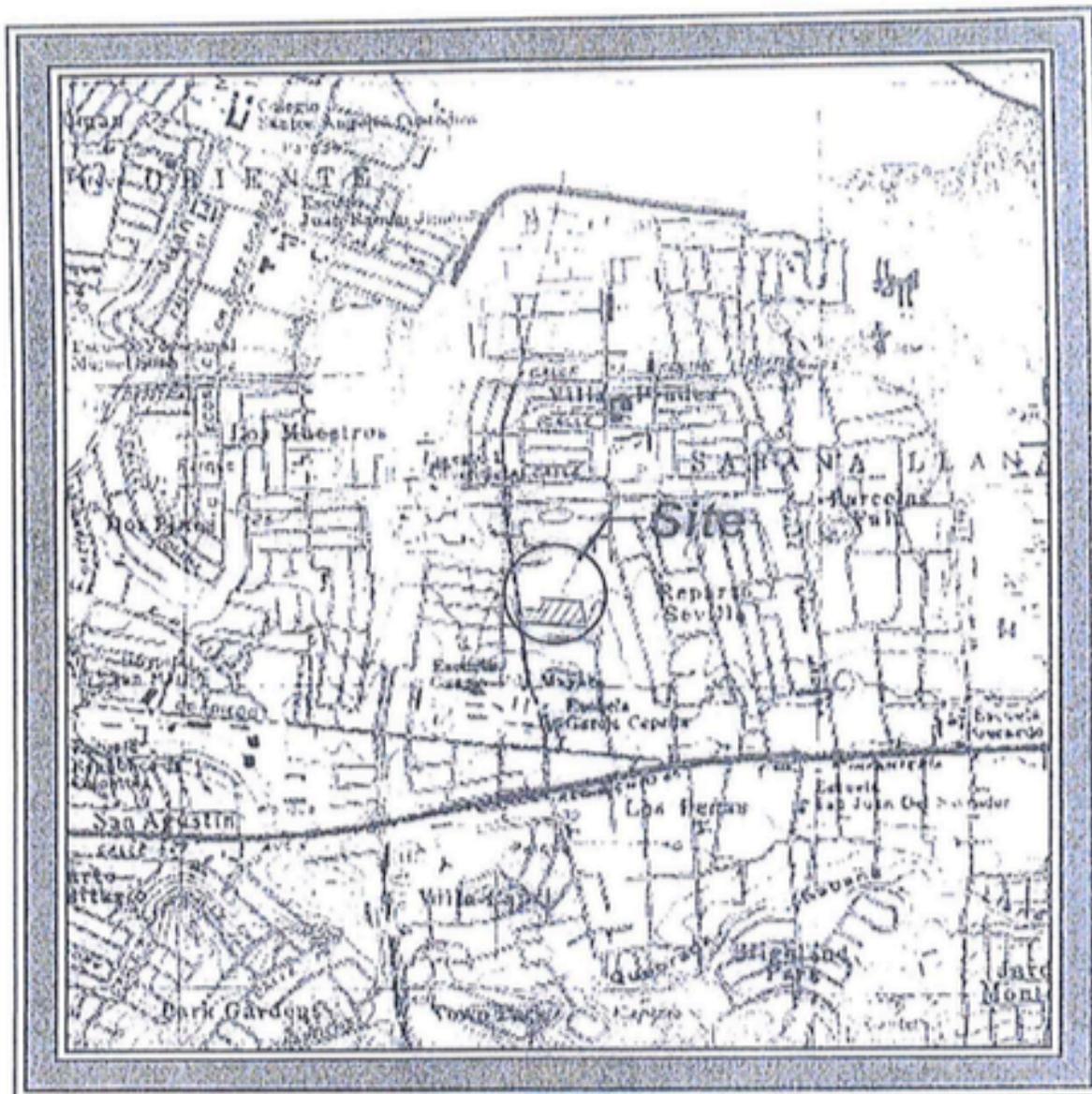
Check	Project Criteria
X	1. Street resurfacing.
X	2. Construction of gutters and sidewalks along existing roads.
	3. Reconstruction or emergency repairs of existing buildings, facilities and homes.
X	4. Rehabilitation of existing occupied single family homes, and buildings; provided that equipment storage 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.
	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.
	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.
	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.

Carr. 174 Bloque 11 #21, Santa Rosa Bayamón, P.R. 00959
 P.O. Box 428 Bayamón, P.R. 00960-0428
 Tel. 787-269-6650 Fax. 787-740-2658
 email: sodg@icepr.com

	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.
	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.
	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.
	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.



Miguel A. San Miguel, P.E.
Principal



Location Map

Scale: 1:20,000

Lambert Coordinates:

X=243087.7715

Y=262885.0773

San Juan Quadrangle

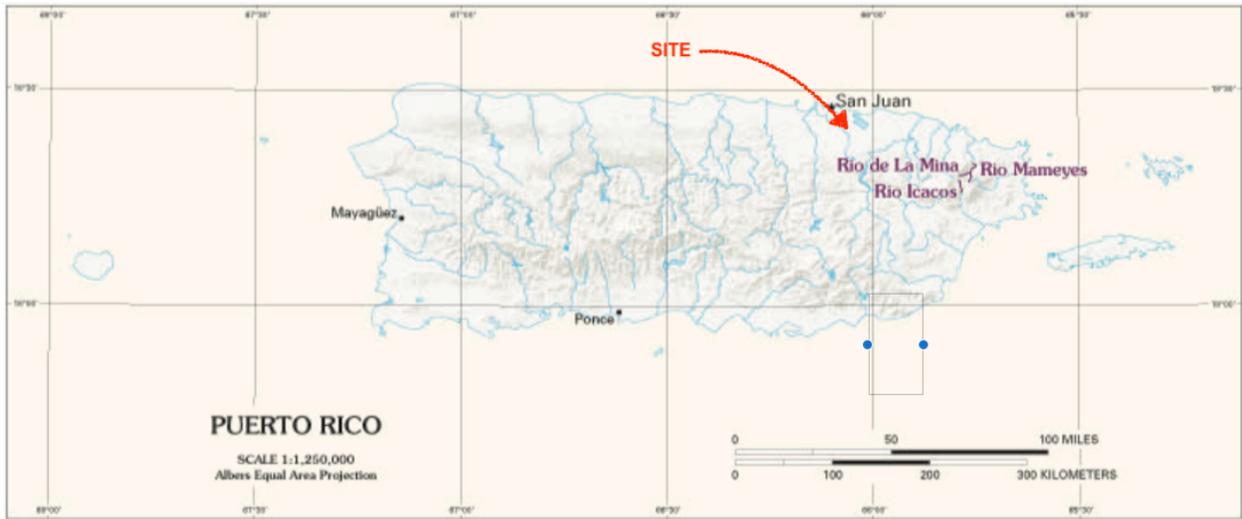
Exhibit No. 5b

Endangered Species and Ecology – National Wildlife Refuge Map



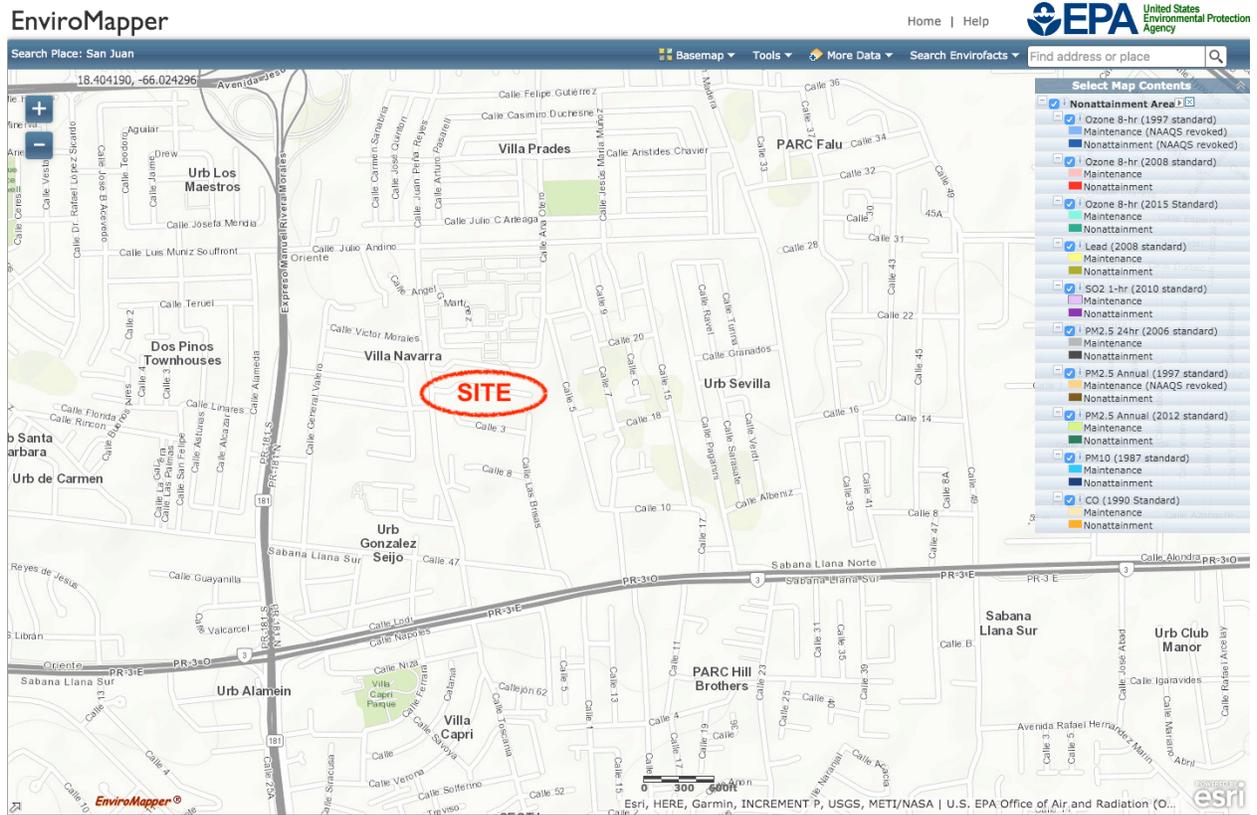
SOURCE: www.fws.gov/refuges/maps/NWRS_National_Map.pdf

Exhibit No. 6
Wild and Scenic Rivers



SOURCE: www.rivers.gov

Exhibit No. 7a Air Quality – Enviromapper



SOURCE: <https://www.epa.gov/emefdata/em4ef.home>

Exhibit No. 7b

Air Quality - Nonattainment in Year

EPA United States Environmental Protection Agency

Green Book [Contract Us](#)

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 May 31, 2019

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

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

Change the State:

[Important Notes](#)

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

[Important Notes](#)

[Go Top](#)

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

Exhibit No. 7c

Air Quality - Nonattainment Wards (Sabana Llana Ward Excluded)

San Juan, PR (Nonattainment)

PUERTO RICO (Region II)

Bayamon Municipio (P)

Juan Sanchez Ward.

Catano Municipio

Guaynabo Municipio (P)

Pueblo Viejo Ward.

San Juan Municipio (P)

San Juan Antiguo Ward., Santurce Ward., Hato Rey Norte Ward., Gobernador Pinero Ward.

Toa Baja Municipio (P)

Palo Seco Ward., Sabana Seca Ward.

SOURCE: <https://www3.epa.gov/airquality/greenbook/tnca.html>

Exhibit No. 8
Environmental Justice – Municipal Endorsement



September 19, 2016

Mr. Ramfis J. Pérez Rivera
Authorize Representative
Sabana Village Apartments, LLC
San Juan, PR

**RE: UNQUALIFIED MAYOR ENDORSEMENT LETTER
REHABILITATION OF AFFORDABLE RENTAL HOUSING
SABANA VILLAGE APARTMENTS, MUNICIPALITY OF SAN JUAN**

Dear Mr. Pérez:

We received your letter regarding the rehabilitation to preserve an existing affordable rental housing project known as Sabana Village Apartments (the "Project") in the Municipality of San Juan. As per description, the proposed project will be developed under Section 42 of the Federal Internal Revenue Code, which created the Federal Tax Credit Program (the "Program") and will combine other local, state and federal funding resources available.

The Project consists of 160 multifamily units and is located at 977 Juan Peña Reyes Street, Sabana LLana ward in the Municipality of San Juan. Sabana Village Apartments will continue to serve the pressing need of available affordable housing units and combined supportive services for current tenants and for unserved and underserved targeted special needs population. Further, the units will include equipment and appliances and count with common areas, facilities, amenities and supportive services for the use and enjoyment of the future tenants.

Upon evaluation of the proposed rehabilitation of Sabana Village Apartments, we must conclude that the Project is undertaking at least two (2) pressing needs present in the municipality: (1) availability of safe, decent and affordable rental housing for low-income families and (2) targets unserved and underserved populations single headed households, homeless and HIV positive. The referenced needs left alone to the municipality will stretch the length of time to tackle and provide for the families of San Juan. Therefore, acknowledging your efforts to develop the Project, the social needs tackled and the attributes of same, we endorse this Project.

Letter to Mr. Ramfis J. Pérez Rivera
September 19, 2016
Page 2

In conjunction with your efforts and actions to provide and support permanent affordable rental housing for low-income families in the Municipality of San Juan and the provision of supportive services, we express our willingness and commitment to the following:

- A. Upon completion of the rehabilitation of Sabana Village Apartments, we will include the Project on our listing of housing opportunities.
- B. Upon Project's readiness to occupy, we will refer certified households with tenant-based subsidy and qualified applicants to the Project.
- C. Engage in a Supportive Services Agreement aimed to attend the single headed households, homeless and HIV positive populations.

Furthermore, and as per the need of the future tenants, the municipality may provide and/or coordinate and not be limited to the following supportive services, at no cost to the Project, neither the tenants: (1) transportation; (2) coordination and interaction with government agencies; (3) educational and vocational activities and (4) excursions, among others as they become available.

You may count with our complete support in your efforts to preserve the Project and we are confident that the current and future occupants of Sabana Village Apartment will convey in a pleasant, safe, enjoyable and integrative community.

Cordially,



Orlando Franco Vargas
Director

Department of Housing and Urban Development

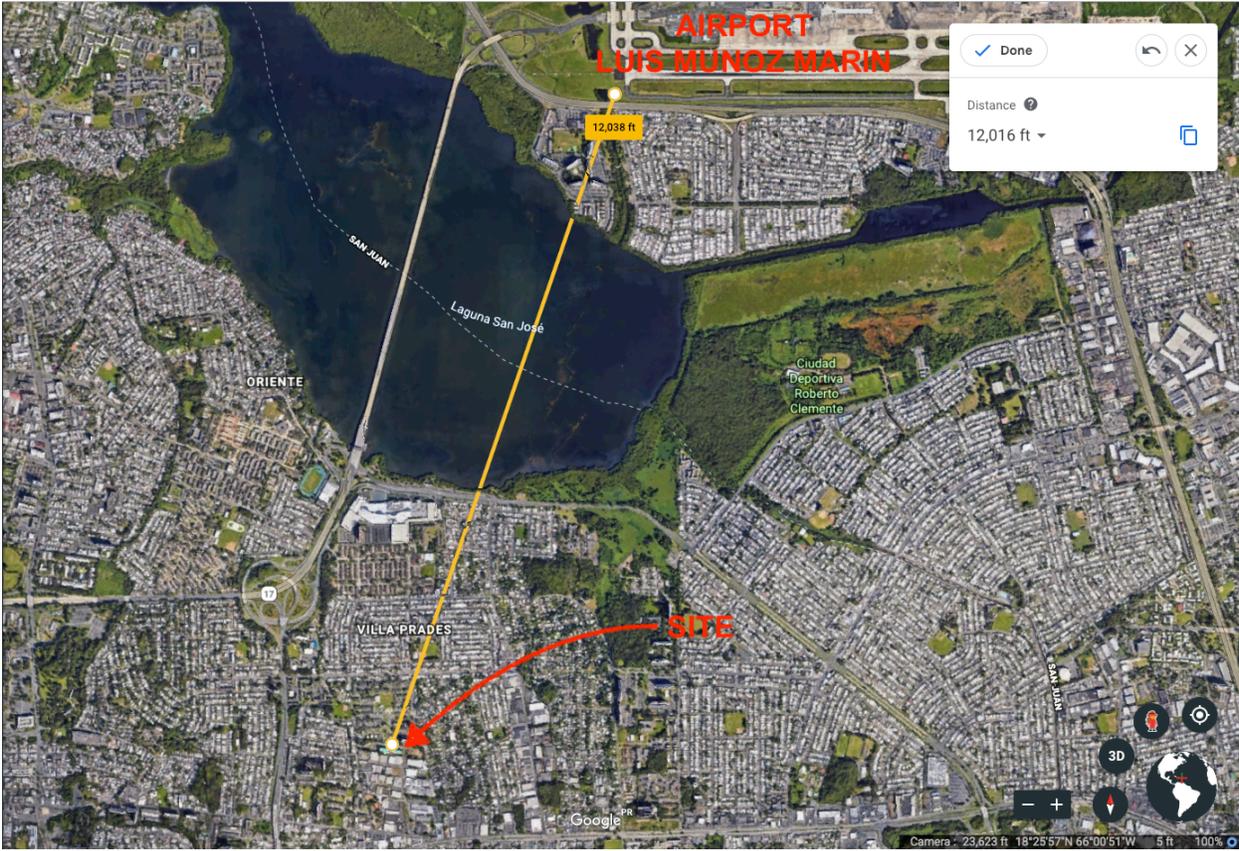
Exhibit No. 9 a
Airports in Puerto Rico

Puerto Rico



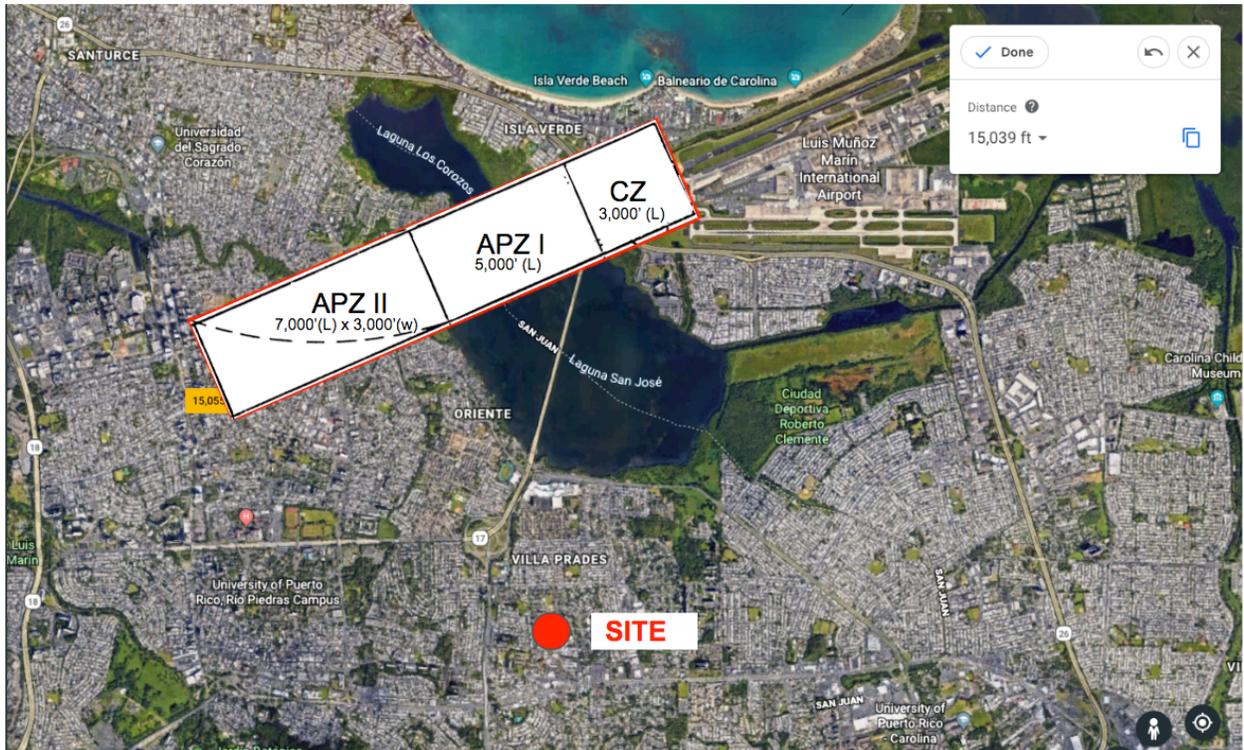
SOURCE: National Plan of Integrated Airport Systems (2019-2023)

Exhibit No. 9 b
Distance to Airport



SOURCE: Google Earth

Exhibit No. 9 c
Runway Clear Zones / Accident Potential Zones / Clear Zones



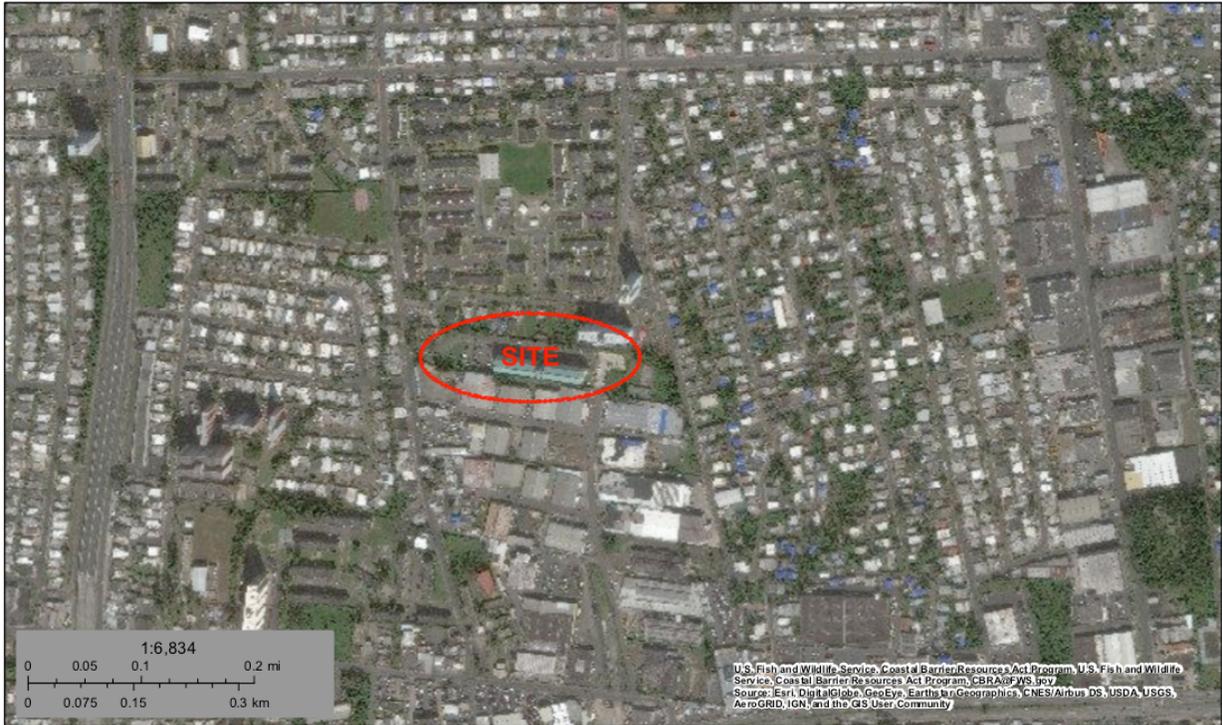
SOURCE: Google Earth and Office of the Secretary of Defense (Section 256.8)

Exhibit No. 10
USFWS - CBRS



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

SABANA VILLAGE



June 26, 2019

CBRS Buffer Zone System Unit

CBRS Units

Otherwise Protected Area

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/cbra/maps/index.html>. 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 (<http://www.fws.gov/cbra/Determinations.html>) 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 extent of the units is not shown in the CBRS mapper.

This page was produced by the CBRS Mapper

SOURCE: <https://www.fws.gov/cbra/maps/Mapper.html>

Exhibit No. 11
SHPO Determination



GOBIERNO DE PUERTO RICO
Oficina Estatal de Conservación Histórica

Thursday, April 6, 2017

Luis C. Fernández Trinchet, Esq., CFA

Assistant Executive Director
Business Area
Puerto Rico Housing Finance Authority
PO Box 71361
San Juan, Puerto Rico 00936-8461

SHPO: 07-08-16-01 MODERNIZACIÓN SABANA VILLAGE APARTMENTS, CALLE JUAN PEÑA REYES EN EL BO. SABANA LLANA, SAN JUAN, PUERTO RICO

Dear Mr. Fernández Trinchet,

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*) and 36 CFR Part 800: *Protection of Historic Properties* from the Advisory Council on Historic Preservation. The State Historic Preservation Officer (SHPO) is to advise and assist federal agencies and other responsible entities when identifying historic properties, assessing effects upon them, and considering alternatives to avoid or reduce the project's effects.

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

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

Sincerely,

Carlos A. Rubio-Cancela
State Historic Preservation Officer

CARC/BRS/srf



Exhibit No. 12
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Exhibit No. 13
Solid Wastes Authority

Recomendación Ambiental

Modernizacion Sabana Village Apartments

Fecha de Expedición:

15/AUG/2016

Datos de localización

De acuerdo a la información suministrada se propone una actividad Privada en el Distrito de Clasificación Identificado a continuación:

Dirección Física

calle Juan N. Peña Reyes
Bo. Sabana Llana
San Juan, Puerto Rico, 00910

Dueño

LCS Limited Partnership P/B/A Sabana

Certificado por

Proyectista Miguel San Miguel Llc. No.

Número(s) de Catastro

087-006-843-05

Calificación

Distrito(s) de Calificación: R-5

Distrito en el Mapa de Inundabilidad: X

Tipo de Suelo: SNS

Datos de permiso

Cabida

16225.72 MC

Servidumbres

Acueductos (AAA), Alcantarillado (AAA), Electricidad (AEE), Vía municipal de acceso (Municipio),

Infraestructura

Recomendación Infraestructura:

Autoridad de Carreteras y Transportación:
ACT Contesta REA - El Programa de Construcción de Mejoras Permanentes vigente de esta Autoridad no incluye proyectos propuestos que pudieran verse afectados por la acción propuesta. En cuanto al aspecto ambiental no tenemos comentarios a la acción propuesta.

Autoridad de Energía Eléctrica:
La AEE Contesta REA - Requiere SRI La Autoridad de Energía Eléctrica (AEE) desde el punto de vista ambiental, no tiene objeción al proyecto propuesto. No obstante, el proyecto según presentado requiere de una evaluación eléctrica. De acuerdo a la Regla 115.D.2 y 3 del Reglamento de Evaluación y Trámite de Documentos Ambientales se deberá discutir el impacto ambiental de cada actividad propuesta que afecte nuestra infraestructura y determinar la disponibilidad de la misma antes de la presentación de un documento ambiental. A esos efectos, deberá incorporar en el Documento Ambiental correspondiente las recomendaciones de la evaluación eléctrica realizada por la AEE que se obtenga mediante la Solicitud de Recomendación de Infraestructura (SRI) de la Oficina de Gerencia de Permisos. Lo recordamos que la evaluación eléctrica caduca al año de realizada. De no comenzar sus trabajos en ese periodo, deberá solicitar una nueva evaluación eléctrica. Este comunicado no constituirá un endoso a la referida acción. Una vez cumplan con las condiciones que se establezcan en la correspondiente evaluación eléctrica, la acción propuesta se considerará endosada.

Autoridad de Acueductos y Alcantarillados:
La Autoridad de Acueductos y Alcantarillados (AAA) evaluó el documento sometido en cumplimiento de su deber como agencia evaluadora, específicamente los aspectos ambientales exclusivos a nuestra jurisdicción y peritaje. Este proyecto propone la construcción de dos edificios de seis pisos cada uno con un total de 160 apartamentos, facilidades auxiliares y administrativas. De este proyecto requerir servicio de agua potable y alcantarillado sanitario, el Proponente debe tener en consideración lo siguiente: •
Deberá someter una consulta a la Oficina de Proyectos Públicos y Privados, Región Metro a través de la OGPe para evaluar la



Recomendación Ambiental

disponibilidad de las facilidades. • Existe la posibilidad de que se le requieran obras de mejoras a la infraestructura existente, de manera que pueda suplirse la demanda de agua potable y/o aceptar la descarga sanitaria que el proyecto propuesto represente. • De afectarse alguna de las facilidades existentes de la AAA, los trabajos a realizarse deberán coordinarse con el Área Operacional de la AAA a través de consulta a Proyectos Públicos y Privados. La relocalización y/o construcción de la infraestructura afectada será costeadada en su totalidad por el proponente. Esperamos que esta información sea de utilidad para el desarrollo de la acción propuesta.

Junta Reglamentadora de Telecomunicaciones (JRTPR):
JRTPR (Núm. Rel. OGPe-2016-121574-REA-000831) Se Adjunta carta con Requisitos de Estricto Cumplimiento La Junta Reglamentadora de Telecomunicaciones tiene los siguientes comentarios. Respecto a las recomendaciones para la instalación de infraestructura de Telecomunicaciones, la Parte Proponente continuará el trámite a través de la Oficina de Gerencias de Permisos (OGPe). A tales efectos autenticará con su firma digital y sello el formulario de Solicitud JRTPR - F101. Es un deber esencial que la Parte Proponente certifique por ese medio, cualquier especificación, con especial atención a la infraestructura de telecomunicaciones y los puntos de conexión. El proponente incorporará el punto de conexión especificado y presentará el diseño final con la infraestructura de telecomunicaciones, desde el punto de conexión hasta cada punto de demarcación. Incluirá el plano con el deslinde y la servidumbre de paso. A la etapa en que la obra esté parcial o totalmente construida, presentará una Solicitud de Inspección para la requerida Certificación de Obras Construidas (COC). A partir de ese momento el dueño o su representante dispondrán de un término no mayor de veinte (20) días para constituir, mediante Plano de Inscripción y Escritura, la Servidumbre de Infraestructura soterrada de Telecomunicaciones. La COC es un requisito de cumplimiento específico para solicitar el Permiso de Uso. Cuando la obra propuesta represente la posibilidad de impactar planta externa de telecomunicaciones el proyecto requerirá una evaluación. En cuanto a ese extremo, se exige el estricto cumplimiento con la sección 3.09 del "Reglamento para Endosos de Planos de Infraestructura y Servidumbres para Facilidades de Telecomunicaciones y Televisión de la Junta Reglamentadora de Telecomunicaciones de Puerto Rico, ("Reglamento 7393, revisado"). Este documento no constituye un endoso a la referida acción, ni representa un relevo de cumplimiento respecto a todos los reglamentos aplicables. La JRTPR ejercerá la autoridad delegada y evaluará cada fase posterior del proceso de permisos, para lo cual podrá solicitar documentación adicional.

Medioambiente

La División de Medio Ambiente no tiene objeción a la actividad solicitada. Se propone la remodelación de un proyecto residencial de 160 apartamentos. Estará localizado en la calle Juan N. Peña Reyes, Barrio Sabana Llana Municipio de San Juan. No obstante, deberá cumplir con los siguientes requerimientos:

Previo a la radicación de una solicitud de Determinación de Cumplimiento Ambiental, deberá obtener una Certificación de Hábitat del Departamento de Recursos Naturales y Ambientales (DRNA), según lo dispuesto en el Capítulo 45 (Hábitat) del Reglamento Conjunto. La Certificación y su correspondiente mitigación, deberá formar parte de la solicitud de Determinación de Cumplimiento Ambiental. Previo a la otorgación de un Permiso de la OGPe deberá cumplirse con la mitigación correspondiente. Deberá cumplir con las disposiciones del Reglamento Conjunto de Permisos para Obras de Construcción y Usos de Terrenos, Capítulo 44 Corte, Poda y Forestación. Se le apercibe que la Ley Núm. 133 de 1 de julio de 1975, según enmendada prohíbe el corte y poda de árboles sin el permiso correspondiente de la OGPe.

Se le apercibe que la Ley Núm. 132 de 25 de junio de 1968, según enmendada y su Reglamento, prohíben la extracción, excavación, remoción y dragado de material de la corteza terrestre sin el permiso correspondiente. Deberá cumplir con las disposiciones del Reglamento Conjunto de Permisos para Obras de Construcción y Usos de Terrenos, Capítulo 43 Extracción, Excavación, Remoción y Dragado de los Componentes de la Corteza Terrestre.

Deberá establecer un programa de reforestación utilizando especies nativas que además de ayudar a minimizar la erosión beneficien la vida silvestre. Esta medida es cónsona con la Ley para Fomentar la Siembra de Árboles Cuyas Frutas y/o Semillas Provean Alimento a Especies de Aves Silvestres de Puerto Rico (Ley Núm. 97 de 24 de junio de 1998), la cual establece lo siguiente: En todo proyecto de reforestación en que se utilicen fondos públicos o privados, o en una combinación de estos, un 15% en las áreas rurales y un 10% en las áreas urbanas del total de árboles a ser sembrados, serán de especies cuyas frutas y/o semillas sirvan de alimento a las aves silvestres que residan temporal o permanentemente en ésta.

Do descubrirse en el predio objeto de desarrollo algún cuerpo de agua superficial o subterráneo, sea perenne o intermitente, deberá informarlo inmediatamente a la OGPe y demás agencias concernidas.

Esta recomendación es solamente aplicable a la situación de hechos y los datos según presentados y evaluados en el caso y el Director Ejecutivo se reserva el derecho de reevaluar, variar o modificar el mismo en cualquier momento anterior a la emisión del permiso o la acción administrativa correspondiente por parte de la agencia solicitante o proponente cuando surja nueva información oficial específica estableciendo que el derecho aplicable o las condiciones ambientales en el predio han cambiado sustancialmente, o cuando el endoso original se emitió bajo premisas falsas o fraudulentas.

ADS:

La Autoridad de Desperdicios Sólidos (ADS) y la División de Medioambiente de la Oficina de Gerencia de Permisos (OGPe) recibieron el proyecto de referencia. El mismo consiste de la remodelación de un proyecto residencial de 160 apartamentos. Estará localizado en la calle Juan N. Peña Reyes, Barrio Sabana Llana Municipio de San Juan.



Recomendación Ambiental

Luego de revisar la información suministrada, la ADS no objeta la acción propuesta, ya que la misma no tiene aspectos contrarios a la política pública de la Agencia. Sin embargo, el proponente cumplirá con las siguientes leyes y reglamentos relacionados con el manejo y disposición de los residuos sólidos y materiales reciclables:

1. Ley Núm. 70, de 10 de septiembre de 1992, Ley para la Reducción y Reciclaje de los Desperdicios Sólidos, según enmendada, establece el desarrollo e implantación de estrategias económicamente viables y ambientalmente seguras que resulten en la disminución del volumen de desperdicios sólidos que requerirá disposición final. Como parte de estas estrategias, se considera necesario modificar las prácticas de manejo y disposición existentes para reducir la intensidad de uso de los Sistemas de Relleno Sanitario (SRS) del país.
2. Reglamento para la Reducción, Reutilización y Reciclaje de Desperdicios Sólidos (Reglamento Núm. 6825 de 15 de junio de 2004), según enmendado. Aplicará a toda persona, natural o jurídica, ya sea municipios, cooperativas, Industrias, comunidades, condominios, complejos de vivienda vertical tipo "walk-up", residenciales público, agencias gubernamentales, empresas o Instituciones privadas (comercios y organizaciones sin fines de lucro) y empresas comunitarias que generen o manejen desperdicios sólidos, que contengan material reciclable, dentro de la jurisdicción del Estado Libre Asociado de Puerto Rico.
3. Ley Núm. 136 de 25 de julio de 2000, según enmendada, establece que: toda obra que comience a partir de 1 de julio de 2001, se utilicen reductores de velocidad fabricados con materiales reciclados manufacturados en Puerto Rico. (aplica área de estacionamiento).
4. Ley para Utilizar Neumáticos Desechados y Triturados Fabricados en Puerto Rico (P.R.) en las Áreas de Juego de Niños, Ley Núm. 191 de 30 de julio de 1999. Ordena que en toda nueva construcción, a partir del 1ro de enero del 2000, que tenga en sus diseños establecer áreas de juego para niños, se utilice gravilla o losas de goma fabricadas de neumáticos desechados y triturados en P. R.
5. Reglamento Conjunto para la Evaluación y Expedición de Permisos Relacionados al Desarrollo y Uso de Terrenos (Reglamento Conjunto de 29 de noviembre de 2010), según enmendado. El proponente cumplirá con la información requerida, según lo dispuesto en:

- a. Capítulo 9, Procedimientos Adjudicativos de los Permisos.

Regla 9.2 Permisos de demolición

Sección 9.2.1 Requisitos de Presentación (f).

Regla 9.3 Permiso de construcción. Sección 9.3.2. (e) Plan de Reciclaje.

- b. Capítulo 44 Corte, Poda y Forestación Regla 44.1 Disposiciones Generales.

Sección 44.1.3 (c) En el caso de corte y poda, se deberá presentar alternativas para el manejo y disposición del material vegetal generado, conforme al Capítulo IX del Reglamento para la Reducción, Reutilización y Reciclaje de Desperdicios Sólidos, según enmendado (Reglamento 7940 de 2 de noviembre de 2010).

- c. Capítulo 46, Desperdicios Sólidos Regla 46.1 Disposición General:

Sección 46.1.1 Disposición de Desperdicios Sólidos No Reciclables.

- a. Los recipientes comunes para disponer de los desperdicios no reciclables se colocarán en los patios posteriores o laterales de los edificios. Se construirán verjas que los disimulen a la vista desde la calle o en propiedades colindantes.

Sección 46.1.2 Recuperación de Materiales Reciclables en Complejos de Viviendas.

Sección 46.1.5 Requerimiento y Expedición de Permiso Relacionado con Centros de Recuperación de Materiales Reciclables.

Sección 46.1.6 Recipientes/Contenedores/Receptáculos en los CRMR.

Presentar evidencia de aprobación de la ADS del Plan de Reducción, Reutilización y Reciclaje y el Informe Trimestral de Reciclaje de los materiales generados durante la etapa de construcción. Para obtener el formulario puede acceder nuestra página electrónica <http://www.ads.pr.gov>. Este se completará y entregará a la Oficina de la ADS o vía correo electrónico construccion@ads.pr.gov. El desarrollador será responsable de notificar al contratista del proyecto el cumplimiento de esta Ley. Esta regla aplicará igualmente a la fase de operación del proyecto. La aprobación del Plan para la fase de construcción, es requisito para otorgar el Permiso de Construcción, otorgado por la Oficina de Gerencia de Permisos (OGPE).

El desarrollador o proponente proveerá un plano de localización del (los) Centros de Recuperación de Materiales Reciclables dentro del proyecto a ser desarrollado y una hoja de detalles de (las) área(s) designada(s) para la recuperación y separación de los materiales reciclables. Esto incluirá las dimensiones, capacidad y distribución de los recipientes comunes para los residuos sólidos y los materiales reciclables. Los planos serán certificados por un profesional licenciado.

En la escritura matriz se incluirán las especificaciones y reglamentaciones para el manejo, recogido y disposición de los materiales potencialmente reciclables. Ésta establecerá el compromiso que tendrán los residentes de instituir y mantener en operación los programas de reciclaje.



Recomendación Ambiental

Los siguientes aspectos serán incorporados en el proyecto:

1. Notificar al Coordinador de Reciclaje Municipal sobre las áreas designadas para la recuperación y disposición de los materiales reciclables. Si el municipio tiene recogido de materiales reciclables en el área, deberá incluir el mismo.
2. Indicar el responsable del recogido y disposición de los desperdicios sólidos (privado o municipal).
3. En el área de estacionamiento utilizar 'wheel stop' fabricados con neumáticos desechados.
4. Implantar técnicas de prevención de contaminación:
 - Utilizar productos sin materiales tóxicos.
 - Emplear materiales reusables o reciclables.
 - Mantener los contaminantes segregados.
 - Conservar el agua y los recursos energéticos.
 - Rotular recipientes y contenedores, apropiadamente, para lo que estén designados.

Las recomendaciones emitidas aplican a los hechos presentados y evaluados al momento. La ADS y OGPE se reservan el derecho de reevaluar y modificar los mismos en el caso de surgir información oficial que identifique que las condiciones han cambiado, o cuando los comentarios hayan sido emitidos bajo premisas falsas. Además, la ADS tiene la facultad de solicitar cualquier información adicional que entienda pertinente y que de conformidad con las leyes y reglamentaciones vigentes, garantice el interés público y la protección del ambiente.

Arqueología y Conservación Histórica

El proyecto propuesto no se localiza dentro de los límites de una zona histórica ni impacta propiedad alguna incluida en el Registro de Sitios y Zonas Históricas de Puerto Rico de la Junta de Planificación o declarada monumento histórico mediante legislación o resolución de la Junta de Directores del Instituto de Cultura Puertorriqueña (ICP). No está zonificada bajo un distrito de conservación de recursos históricos o de uso público. Tampoco existe evidencia o información en los archivos que indique la presencia de alguna propiedad elegible a sitio histórico conforme a la reglamentación estatal. En adición, el proyecto se propone en un predio previamente impactado por lo que las probabilidades de que las actividades de desarrollo que contempla este proyecto pudieran afectar recursos de naturaleza arqueológica son mínimas. Por lo antes expuesto, esta División no tiene objeción a este proyecto. AUN ASI, SI COMO RESULTADO DEL PROCESO DE CONSTRUCCIÓN SE DETECTA ALGÚN VESTIGIO DE NATURALEZA HISTÓRICA, ARQUITECTÓNICA Y/O ARQUEOLÓGICA EN EL PREDIO SE DEBERÁ NOTIFICAR AL INSTITUTO DE CULTURA PUERTORRIQUEÑA NO MÁS TARDE DE 24 HORAS.

División de Evaluación de Cumplimiento Ambiental

En el Documento de Evaluación Ambiental (DEA) que se someta se deberán atender los comentarios y requerimientos que hayan emitido las agencias comentadoras. La DEA deberá ser tramitada a través del Municipio Autónomo de San Juan. Se incluyen los comentarios de la Junta de Calidad Ambiental, emitidos en carta fechada 5 de agosto de 2016.

Condiciones Generales

Esta recomendación es solamente aplicable a la situación de hechos y los datos según presentados y evaluados en el caso. La OGPE se reserva el derecho de reevaluar, variar o modificar el mismo en cualquier momento anterior a la emisión del permiso o requerir la acción administrativa correspondiente por parte de la agencia solicitante o proponente cuando surja nueva información oficial específica estableciendo que el derecho aplicable o las condiciones ambientales en el predio han cambiado sustancialmente, o cuando la recomendación original se emitió bajo premisas falsas o fraudulentas.

Habido recibido los comentarios de las agencias gubernamentales concernidas. Esta información será utilizada para la presentación del Documento Ambiental correspondiente a ser evaluado por la División de Evaluación de Cumplimiento Ambiental.

Vigencia



Recomendación Ambiental

Vigencia

Las vigencias de las diferentes agencias del proceso de recomendación serán los establecidos en las comunicaciones que en estas emitan conforme a sus reglamentos. Esta recomendación ambiental tendrá una vigencia de trescientos sesenta y cinco (365) días a partir de su expedición.

Condiciones Especiales

NINGUNA

Firma / Sellos

Fecha de Expedición:
15/AUG/2016



Arq. Alberto Lastra Power
Director Ejecutivo OGPe



Exhibit No. 14

Environmental Quality Board (Junta de Calidad Ambiental)

Determinación de Cumplimiento Ambiental para Evaluación Ambiental

Modernización Sabana Village Apartments

DATOS DE DETERMINACIÓN

Presentado por Municipio Autónomo de San Juan	Número de Caso 2016-DEA-00057
Dirección Física Calle Juan N. Peña Reyes Bo. Sabana Llana San Juan, Puerto Rico	Caso de Referencia 2016-121574-REA-000831 16OP-34069EA-OR 2016-121574-SRI-00978
Número de Catastro 087-006-843-05	

ACCIÓN PROPUESTA

La Acción Propuesta consiste en un proyecto: Residencial Privado, en el (los) Distrito(s) de Clasificación identificado(s) a continuación:

El mismo tiene los siguientes componentes:

Calificación

Distrito(s) de Calificación: R-5
Tipo de Zona: Urbana
Accesos: Públicos
Zona de Inundabilidad: Zona X)
Tipo de Suelo: SNS

Cabida del proyecto: 19,336 m²

Servidumbres existentes

- Acueductos (AAA): Sí
- Alcantarillado (AAA): Sí
- Electricidad (AEE): Sí
- Vía de acceso: Sí
- Sistema de Inyección Subterránea: No
- Otras (especifique): N/A

Movimiento de terreno: No

Demolición: Sí

Instalación de Generadores de Electricidad
Conlleva Generadores: No

Desperdicios sólidos
Volumen en Construcción: 250 lbs /día.
Tipo: NP
Volumen en Operación: 1,600lbs /día.
Tipo NP

Cantidad de Plantas: 6

Cantidad de Estacionamientos: 183

- Regulares: 175
- Impedidos: 08

Descripción

La acción propuesta consiste en la modernización de un edificio existente de seis (6) plantas y 160 apartamentos, áreas comunales, ascensores y mejoras al "site" como asfalto al estacionamiento, verjas alambre eslabonado e iluminación. El proyecto de Modernización de Sabana Village Apartments, ubica en un predio de terreno con una cabida de 19,336.00 metros cuadrados, en la calle Juan N. Peña Reyes del barrio Sabana Llana del Municipio Autónomo de San Juan.

El predio de terreno donde está construido el proyecto es un terreno llano, que por el oeste colinda con la calle Juan N. Peña Reyes, por el este con la calle 6, por el norte con varios proyectos de vivienda incluyendo el residencial Prudencio Martínez y por el sur con una zona industrial. En el mismo se encuentra el edificio existente de seis (6) plantas, estacionamiento para 183 vehículos, cancha de baloncesto y vivero.

El proyecto existente está conectado a todos los sistemas de infraestructura existentes; agua potable, alcantarillado sanitario y pluvial, energía eléctrica, teléfono y cable. De igual manera tiene acceso a través de la calle municipal Juan N. Peña Reyes.

Determinación de Cumplimiento Ambiental para Evaluación Ambiental

Impactos al ambiente y medidas de mitigación

Durante la etapa de Modernización del proyecto, se espera que se genere muy poco polvo fugitivo. Se implantarán medidas para controlar las emisiones fugitivas, tales como la aspersión del área con agua, según requiere la Junta de Calidad Ambiental (JCA) a través de su Reglamento para el Control de la Contaminación Atmosférica. Antes de dar inicio a la construcción, se solicitará y obtendrá el Permiso General Consolidado.

Se habrá de cumplir con toda la reglamentación aplicable a la acción propuesta.

DETERMINACIÓN

Luego de revisado y analizado el expediente administrativo y discutidos todos los méritos del documento ambiental, al amparo de los poderes y facultades que le confiere a esta Oficina de Gerencia de Permisos la Ley Núm. 161 de 1 de diciembre de 2009 y el Reglamento de Evaluación y Trámite de Documentos Ambientales de la JCA, en adelante RETDA, RESUELVE:

- La EA sometida por la Agencia Proponente para la Acción Propuesta cumple con todos los requisitos de la Ley sobre Política Pública Ambiental, Ley Número 416 del 22 de septiembre de 2004, según enmendada, y con el RETDA habiéndose considerado y analizado adecuadamente los impactos ambientales que conlleva la acción, se aprueba el documento ambiental presentado dando así por terminado el proceso de evaluación del documento ambiental de referencia.
- De conformidad con el RETDA, las medidas de mitigación expresadas en el documento ambiental serán obligatorias y constituirán las medidas mínimas a tomarse en consideración para proteger el ambiente. La Agencia Proponente requerirá a las agencias con jurisdicción que incluyan las medidas de mitigación como condición indispensable de sus permisos.
- La Agencia Proponente deberá procurar que al momento de llevarse a cabo el desarrollo del Proyecto, se observen y consideren adecuadamente las recomendaciones emitidas por los Gerentes de Permisos. Asimismo, la Agencia Proponente será responsable de velar que la acción, de llevarse a cabo, se desarrolle acorde con la información suministrada en el documento ambiental presentado apercibiéndose que los permisos que administran las entidades gubernamentales en relación al cumplimiento de las mismas están supeditados a la información y datos contenidos en documento ambiental.
- Si luego de haberse dado cumplimiento con el Artículo 4(B) de la Ley Núm. 416 surgieran variaciones sustanciales en la acción propuesta, la Agencia Proponente será responsable de evaluar dichos impactos mediante el correspondiente documento ambiental que entienda pertinente.

Recomendaciones y/o Comentarios del Director de la División de Evaluación de Cumplimiento Ambiental

1. Previo a dar comienzo las actividades de programadas, deberá obtener de la Oficina de Gerencia de Permisos (OGPe) el Permiso General Consolidado.
2. El almacenaje, manejo, transportación y disposición de los desperdicios a generarse durante la construcción del proyecto, deberá realizarse en conformidad con el Reglamento para el Manejo de los Desperdicios Sólidos No Peligrosos de la Junta de Calidad Ambiental (JCA). Los camiones de acarreo de desperdicios deberán contar con el Permiso para Operar Servicios de Recolección o Transportación de Desperdicios Sólidos No Peligrosos (Permiso DS-1) emitido por la JCA, para transportarlos hasta una instalación de disposición final o de reciclaje.
3. De proponerse la operación de generadores de electricidad con capacidad mayor de 10 caballos de fuerza y una operación no mayor de 500 horas al año, deberán obtener a través de la OGPe, el Permiso General que establece el Reglamento para el Trámite de los Permisos Generales de la JCA, que incluye el Permiso de Fuente de Emisión.
4. Para utilizar algún tanque de almacenamiento de combustible para abastecer al generador o para cualquier otro equipo durante las actividades propuestas, deberán presentar un Plan de Emergencia ante el Área de Calidad de

Determinación de Cumplimiento Ambiental para Evaluación Ambiental

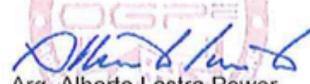
Agua de la JCA a tenor con la Sección 6.5 del Reglamento de Estándares de Calidad de Agua, informando la acción a tomar para evitar derrames.

5. Deberán mantener cubiertos con toldos los camiones de carga que se utilicen para transportar desperdicios y materiales de construcción mientras estén en movimiento, para evitar la generación de polvo fugitivo.
6. Deberán tomar las medidas necesarias para controlar el área durante la construcción, para evitar exponer a los vehículos a recoger lodo, polvo, sustancias pegajosas o material viscoso en las ruedas u otras partes del vehículo, los cuales a su vez puedan ser depositados en las calles u otro sitio público.
7. Cumplir con el Reglamento para el Control de la Contaminación por Ruido de la JCA, en lo relacionado al nivel de sonido máximo permitido.
8. Deberán cumplir con las recomendaciones emitidas para este proyecto en la Recomendación Ambiental (2016-121574-REA-000831.
9. Tomar las medidas necesarias para evitar que residuos de sustancias orgánicas e inorgánicas tales como: aceites, combustibles u otras sustancias químicas, puedan ser arrastradas por la escorrentía y ganen acceso a cuerpo de agua alguno.
10. Las recomendaciones y requisitos presentados en esta comunicación, no eximen de cualquier otro requerimiento o permiso de esta Oficina u otras agencias concernidas, que sean aplicables a la acción propuesta.

FIRMAS/SELLOS

CERTIFICO: Que he notificado copia fiel y exacta de la presente determinación con sus anejos, bajo mi firma, a la Agencia Proponente.

En San Juan, Puerto Rico hoy
26 de agosto de 2016

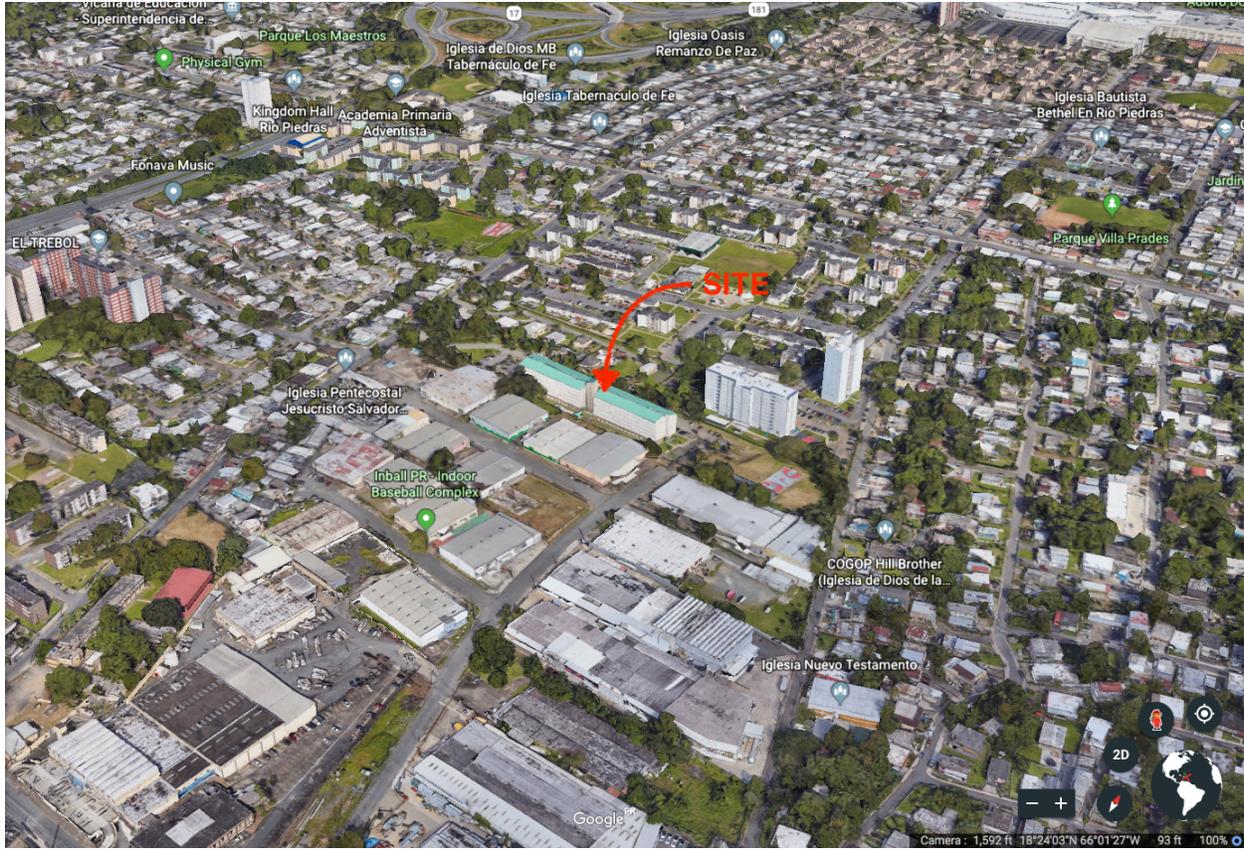


Arq. Alberto Lastra Power
Director Ejecutivo

Exhibit No. 15
Existing Conditions / Site



SOURCE: Google Earth



SOURCE: Google Earth



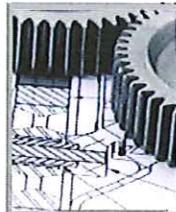
SOURCE: Google Earth

9. APPENDIX B – Additional Studies and Reports

Exhibit A	Noise Assessment	See Attachments
Exhibit B	Phase 1 Environmental Assessment	See Attachments
Exhibit C	Asbestos Containing Materials Inspection Report	See Attachments
Exhibit D	Lead Based Paint Inspection Report	See Attachments
Exhibit E	Lead Based Paints Abatement Plan	See Attachments

NOISE SURVEY REPORT

AT
SABANA VILLAGE PROJECT,
SAN JUAN, P.R.



Physical Address:

Villa Blanca Industrial Park
Plaza Bairoa Suite 205
Caguas, P.R. 00725
www.sharetechgroup.com

September 09, 2016

Ramfis Perez
Sabana Village Apartments LLC
Sabana Village Project
977 Juan Pena Reyes Street
San Juan, P. R.
Email: msantos@luchapr.org
Phone: 787-562-1515

RE: Environmental Noise Survey for Sabana Village Project at San Juan, P.R. (PO #: Signed Proposal)

Dear Mr. Perez,

Enclosed please find professional consulting services report for subject environmental noise survey conducted at the Sabana Village Project in San Juan, P.R., on September 6, 2016.

We appreciate the opportunity to service you and look forward to continue supporting Sabana Village Apartments LLC in the near future.

If you have any questions, do not hesitate to contact us.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Omar'.

Omar Muñiz Rosado, PE
President
ShareTech Group

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<u>Appendix 1: “Reglamento para el control de la contaminación de ruido”</u> <u>Appendix 2: Equipment Data Calibration</u> <u>Appendix 3: Noise Level Measurement and Graphs</u> <u>Appendix 4: Field Notes ..</u>	21

EXECUTIVE SUMMARY

This report summarizes the results obtained from environmental noise survey conducted at Sabana Village Project on San Juan (See figure #1 for location) during September 6, 2016.

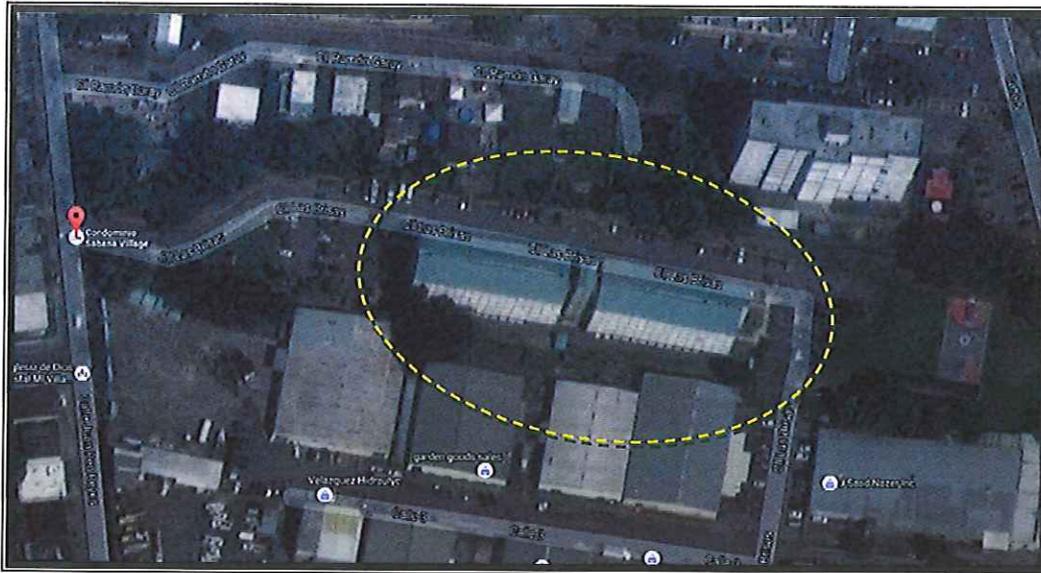


Figure #1- Survey Location (Satellite Photo)

The results from this survey are summarized on Table #2. The interpretation of the results is presented on page 15, and the conclusions and recommendations on page 16.

The LDN represents the 24 hours average sound level. For daytime period the Time – Weighted Average LDN is 65.6 dB. For nighttime period the Time – Weighted Average LDN is 69.1 dB.

Based on the data collected during the noise survey at daytime and nighttime, the Calculated Time – Weighted LDN Average ^{24 hours} is 66.9 dB reveal a LDN level normally unacceptable under the HUD criteria as these are higher than the HUD 65 decibels Acceptability Standard.

INTRODUCTION

ShareTech Group was contracted by the Sabana Village Apartments LLC on September 2, 2016 to perform a limited and specific-scope noise survey during day and night periods at their project located at 977 Juan Pena Reyes Street Sabana Llana Ward in the municipality of San Juan. The study was carried out to measure the noise levels at selected locations at the perimeter of the Sabana Village Project to confirm compliance with the established HUD Noise criteria (24 CFR 51).

HUD defines the day period with hours in a range between 7:01 am and 10:00 pm and the night period in a range between 10:01 pm until 7:00 am. Refer to Table I on next page for the HUD noise criteria.

This study was carried out considering the Environmental Quality Board (EQB) regulatory requirements. Results were compared with the EQB established noise limits during night and day periods based on the residential nature of the buildings in the area. Day and night periods for environmental noise control limits are defined in the Puerto Rico's Environmental Quality Board (EQB) Noise Control Regulation, refer to Table III on Appendix 6 referenced from said regulation.

The area under study is classified as urban soil, as established by the Puerto Rico Planning Board, known in Spanish as "Junta de Planificación". Table I on the next page shows the HUD Site Acceptability Standards for Day – Night Average Sound Level in decibels. An exterior noise level of 65 dB or lower is considered acceptable by HUD.

The HUD exterior noise standards refer to the degree of acceptability of the noise environment at the site. Noise environment is determined by the additional sound levels of those generated by buildings or other facilities containing noise sensitive uses.

The standards shall usually apply at a location 2 meters (6.5 feet) from the building housing noise sensitive activities in the direction of the predominant noise source. Where the building location is undetermined, the standards shall apply 2 meters (6.5 feet) from the building setback line nearest to the predominant noise source. The standards shall also apply at other locations where it is determined that quite outdoor space is required in an area ancillary to the principal use on the site.

The noise environment inside a building is considered acceptable if: (i) The noise environment external to the building complies with these standards, and (ii) the building is constructed in a manner common to the area or, if of uncommon construction, has at least the equivalent noise attenuation characteristics.

Under HUD, the Site Acceptability Standards for Day – Night sound level (in decibels) is presented below:

Table #I – HUD Site Acceptability Standards

Acceptable or Unacceptable	Day-night average sound level (in decibels)	Special approvals and requirements
Acceptable	Not exceeding 65 dB (1)	None.
Normally Unacceptable	Above 65 dB but not exceeding 75 dB	Special Approvals (2)
		Environmental Review (3).
		Attenuation (4).
Unacceptable	Above 75 dB	Special Approvals (2).
		Environmental Review (3).
		Attenuation (5).

Notes:

- (1) Acceptable threshold may be shifted to 70 dB in special circumstances pursuant to §51.105(a).
- (2) See §51.104(b) for requirements.
- (3) See §51.104(b) for requirements.
- (4) 5 dB additional attenuation required for sites above 65 dB but not exceeding 70 dB and 10 dB additional attenuation required for sites above 70 dB but not exceeding 75 dB. (See §51.104(a).)
- (5) Attenuation measures to be submitted for approval on a case-by-case basis.

This report includes the results of the noise levels during the daytime period as well as during the nighttime period.

METHODOLOGY & EQUIPMENT

The noise survey was conducted in accordance to the requirements under HUD 24 CFR 51 and by EQB's Noise Pollution Control Regulation entitled "Reglamento para el Control de la Contaminación de Ruido" Appendix 1. The following tasks were performed as part of this survey:

Task 1) As stated earlier, the noise survey was also conducted in accordance to the requirements of EQB's Noise Pollution Control Regulation entitled "*Reglamento para el Control de la Contaminación de Ruido*" and with *HUD Noise criteria (Appendix 1) as stated under 24 CFR 51* using two (2) calibrated sound level meters under the required American National Standards Institute (ANSI) Specifications. Two 3M Sound Pro Series DL Sound Level Meters were used to carry out this study.

The noise survey was conducted during the late evening and early night periods at hours considered within both, the HUD and EQB daytime and nighttime regulatory definition on Tuesday, September 6, 2016. Four (4) noise measurement locations were surveyed during the daytime and nighttime periods on that day. No rain events occurred during the noise survey.

The noise survey was carried out using two (2) calibrated sound level meters which meets the "American National Standards Institute" (ANSI) specification for Type 1, sound level meters on its latest revision (See Figure #2). For this noise survey, two (2) calibrated Sound Pro Series DL Sound Level Meters manufactured by 3M (Quest Technologies) were used. Refer to Appendix 3 for data on calibration of the sound level meter instruments. The instruments are equipped with software and data logger and generate the data used to prepare this report. The raw data is included under Appendix 4.



Figure #2- Sound Level Meter Photo

The sequence followed for conducting the noise survey is described below:

- The operating mode noise level measurements for the daytime period were started at around 07:32 a.m. and finished approximately 08:38 a.m. The EQB daytime noise period is encompassed between 7:00 a.m. and 10:00 p.m. Refer to table #II for details.
- The measurements for the nighttime period were started at around 5:27 a.m. and finished approximately 6:33 a.m. The EQB nighttime noise period is encompassed between 10:01 p.m. and 06:59 a.m. Refer to table #III for details.
- The sound level meters were calibrated pre and post the measurement using calibrator model AC-300. Refer to Appendix 2 for equipment calibration data.

The readings were collected using two (2) calibrated Sound Level Meters Model Sound-Pro DL:

- Meter 1 – Serial Number: BLN100003 (Calibrator serial number: AC300006293)
- Meter 2 – Serial Number: BLP090006 (Calibrator serial number: AC300004512)

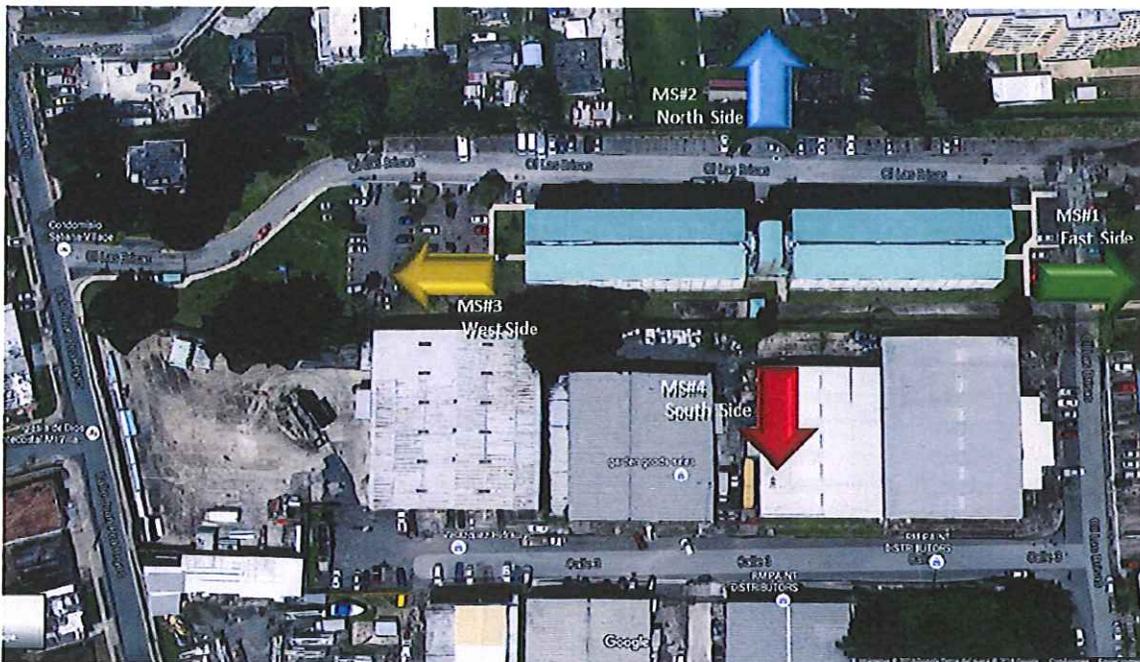
The monitoring stations (MS) or locations of this noise survey at Sabana Village Project perimeter are described in the table shown above. Refer to Figure #3 for these location.

Table #II- Noise Survey Data Collected on Day Time Period

Sample	Monitoring Station (MS)	Time	Run Time	Description
1	1	07:32:02 am	00:31:24	Located at Sabana Village Project at east side.
2	2	08:04:57 am	00:31:34	Located at Sabana Village Project at north side.
3	3	07:33:10 am	00:31:00	Located at Sabana Village Project at west side.
4	4	08:08:03 am	00:30:13	Located at Sabana Village Project at south side.

Table #III- Noise Survey Data Collected on Night Time Period

Sample	Monitoring Station (MS)	Time	Run Time	Description
1	1	05:59:05 am	00:31:24	Located at Sabana Village Project at east side.
2	2	06:33:48 am	00:33:20	Located at Sabana Village Project at north side.
3	3	05:59:08 am	00:30:04	Located at Sabana Village Project at west side.
4	4	06:32:49 am	00:31:40	Located at Sabana Village Project at south side.


Figure #3- Monitoring Station Locations

The monitoring stations (MS) for day time and nighttime period are described as:

- **Monitoring Station #1:** Located at Sabana Village Project east side. Refer to Figure #3, the green arrow.
- **Monitoring Station #2:** Located at Sabana Village Project north side. Refer to Figure #3, the blue arrow.
- **Monitoring Station #3:** Located at Sabana Village Project at west side. Refer to Figure #3, the yellow arrow.
- **Monitoring Station #4:** Located at Sabana Village Project at south side. Refer to Figure #3, the red arrow.

***Note:** During the noise survey, there is low traffic flow along the surround streets, people talking at neighborhood. See Appendix 4 for Field Notes.

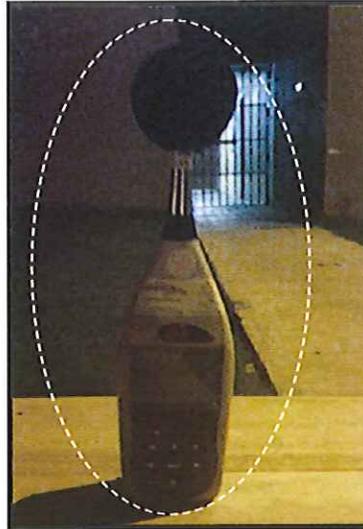


Figure #5- Monitoring Stations #1 location (East Side).



Figure #6- Monitoring Stations #2 location (North side).

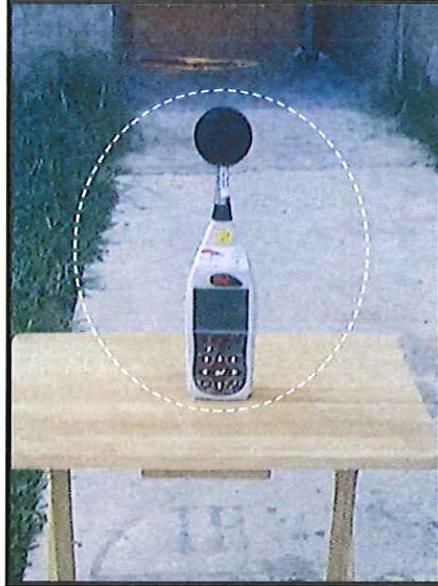


Figure #7- Monitoring Stations #3 location (West Side).

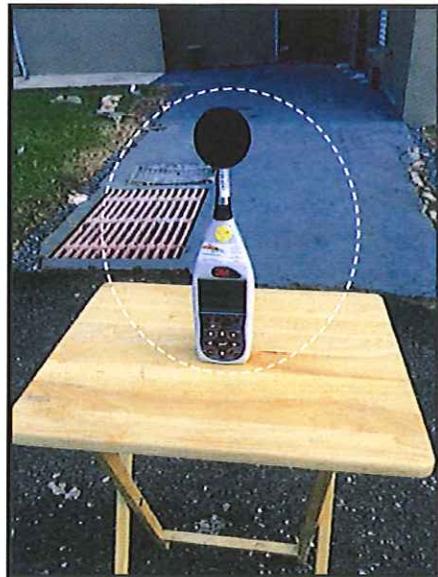


Figure #8- Monitoring Stations #4 location (South Side).

Task 2) Preparation of Report - This report summarizes the results of the noise survey and was prepared for client use and discussions as they consider pertinent. Report

includes findings, explanation of existing particular conditions during this noise survey, and interpretations of results, conclusions and recommendations, as applicable. **Appendix 3** includes the noise level measurements data and associated graphs as collected by the sound level meters, data logged and retrieved at the end of the study.

REPORT OF RESULTS

On September 6, 2016, a noise survey was performed during the day and night periods establish by EQB, while the site was in normal routine. No rain events occurred during the monitoring. The levels of this survey will be compared to the levels established on the regulation.

The detailed results of this survey are illustrated in Appendix 3. A summary was prepared using LDN values for each monitoring station. The LDN represents the day / night sound level, this measurement is a 24 – hour average sound level where 10 dB is added to all of the readings that occur between 10 pm and 7 am. The results of this survey are presented in tables #IV & V, and in figure #9.

Table #IV- Readings Recorded by the Sound Level Meters (Day Time Period)

Monitoring Stations (MS)	LDN
Monitoring Station 1	59.8 dB
Monitoring Station 2	61.2 dB
Monitoring Station 3	70.3 dB
Monitoring Station 4	71.0 dB
Average Daytime LDN	65.6 dB

Table #V- Readings Recorded by the Sound Level Meters (Night Time Period)

Monitoring Stations (MS)	LDN
Monitoring Station 1	70.4 dB
Monitoring Station 2	71.4 dB
Monitoring Station 3	66.3 dB
Monitoring Station 4	68.4 dB
Average Nighttime LDN	69.1 dB

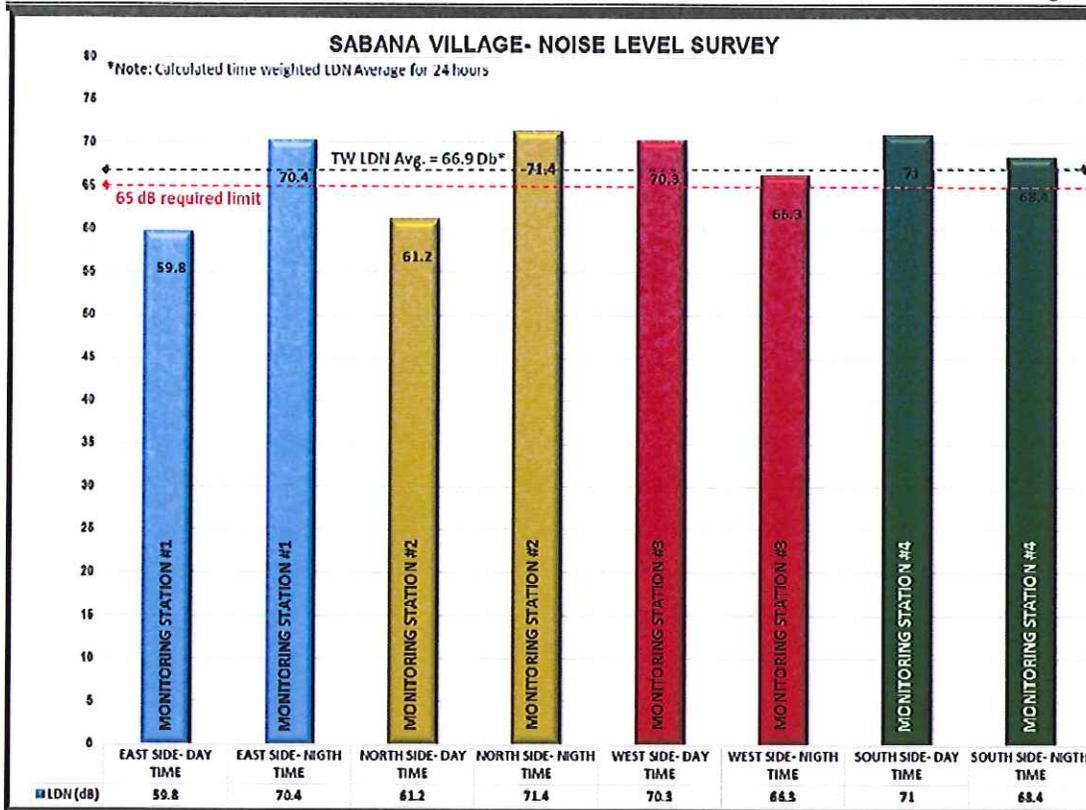


Figure #9- Monitoring Stations LDN Values.

A Calculated Time-Weighted Average for 24 hours is presented below:

$$\begin{aligned}
 \text{Weighted Average 24 hours} &= ((15/24) * \text{Daytime Period LD}) + ((9/24) * \text{Nighttime Period LN}) \\
 &= ((15/24) * 65.6 \text{ dB}) + ((9/24) * 69.1 \text{ dB}) \\
 &= 41.0 \text{ dB} + 25.9 \text{ dB}
 \end{aligned}$$

Calculated Time-Weighted LDN Average 24 hours = 66.9 dB

INTERPRETATION OF RESULTS

The EQB's Noise Pollution Control Regulation entitled "*Reglamento para el Control de la Contaminación de Ruido*" and HUD Noise criteria (Appendix 1) under 24 CFR 51 established the guidelines for an exterior noise level of 65 dB or lower is considered acceptable by HUD.

The LDN represents the 24 hours average sound level. For daytime period the Time – Weighted Average LDN is 65.6 dB. For nighttime period the Time – Weighted Average LDN is 69.1 dB.

Based on the data collected during the noise survey at daytime and nighttime, the Calculated Time – Weighted LDN Average ^{24 hours} is 66.9 dB reveal a LDN level normally unacceptable under the HUD criteria as these are higher than the HUD 65 decibels Acceptability Standard. This value represents 102.9% of HUD criteria.

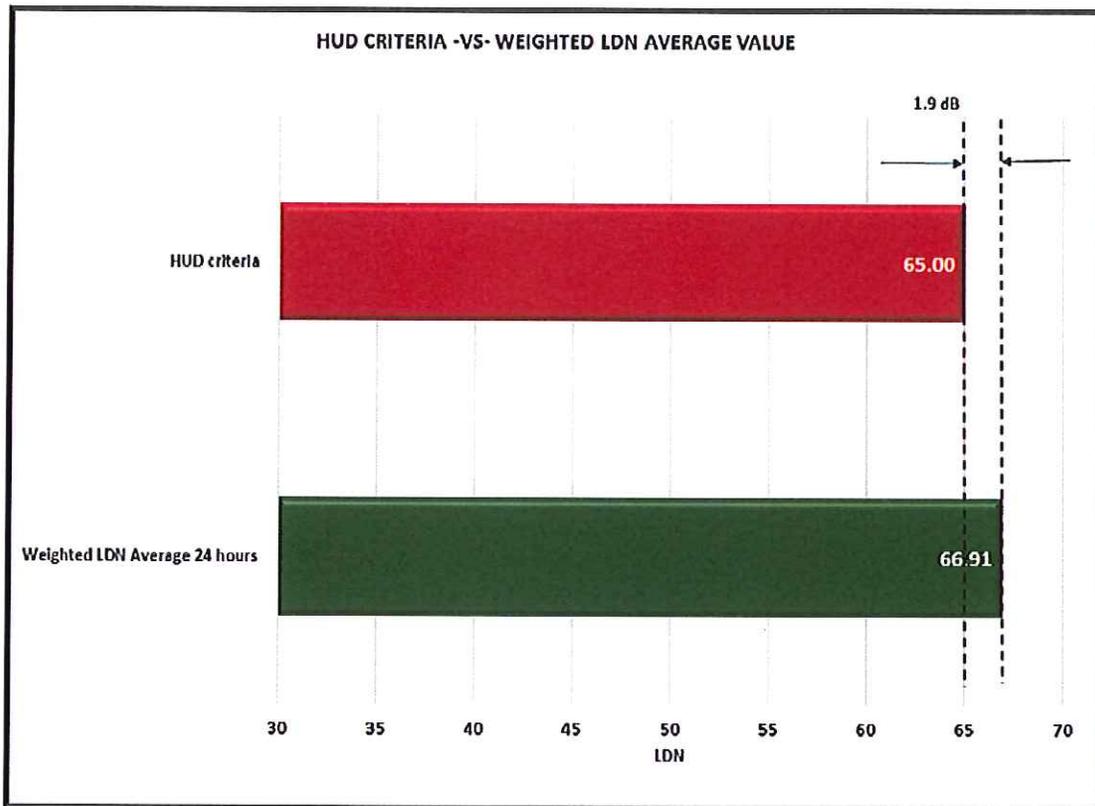


Figure #10- HUD Criteria -vs- Weighted LDN Average Value.

CONCLUSIONS AND RECOMMENDATIONS

The HUD noise acceptability criterion of 65 dB for exterior of the Sabana Village Project was normally unacceptable, refer to §51.104 (b) for special approvals and requirements for attenuations.

ACRONYMS

SPL - Sound Pressure Level will be displayed, with the selected weighting and response characteristics. The value displayed is the maximum SPL during the previous second. (SPL is also always shown in the display bar indicator.)

LEQ - The average integrated sound level accumulated while in the RUN mode is shown in the numeric display. LEQ indicates that a 3dB exchange rate was used for the measurements.

LAVG - The same type of measurement as LEQ, except that a 4, 5 or 6dB exchange rate was used. The display will be correct for the exchange rate selected.

TWA - Time Weighted Average. The average level accumulated during a study, but calculated with an eight-hour integration time.

LMAX - The Maximum SPL obtained while in the RUN mode is shown in the numeric display. With PEAK response selected, this functions as a Peak Hold.

LMIN - The Minimum Sound Pressure Level obtained while in the RUN mode is shown in the numeric display.

LN - The SPL exceeded for N of the time during a study. Four user selectable values are calculated. The default values are L5, L10, L50 and L90. The values may be changed in the PARA Setup Menu.

LDN - Day/Night Sound Level. The average sound pressure over a 24 hour study, with additional factors for time of day. Sound pressures between the hours of 10 pm and 7 am are increased by 10dB prior to being averaged. A 3dB exchange rate should be used and is generally assumed.

CNEL - Community Noise Exposure Level. The average sound pressure over a 24 hour study, with additional factors for time of day. Sound pressures between the hours of 7 pm and 10 pm are increased by 5dB prior to being averaged. Sound pressures between the hours of 10 pm and 7 am are increased by 10dB prior to being averaged. A 3dB exchange rate should be used and is generally assumed. If an exchange rate other than 3dB is selected via the Setup Menu, CNEL will not be calculated and the display will show.

% OL - Percentage of time during the study that an overload (OL) condition occurred. Overload indicates that the signal has exceeded the measuring range.

SEL - Sound Exposure in Pascal-squared seconds or Pascal-squared hours, switching from Pa2S to Pa2H at 3600 Pa2S. The display will show if the exchange rate is not 3dB.

SEL - The Sound Exposure Level is the constant Sound level which, if lasting for one Second, would deliver the same amount of acoustical energy as that accumulated over the entire Study

RTMS or RTHM - The total RUN time will be displayed. Time may be displayed in MIN:SEC and HRS:MIN. The MIN:SEC display for a Study that lasts over one hour will wrap around to 00:00. The HRS:MIN display will count to 99:59 and then wrap around to 00:00 but the actual time will be stored in memory.

LPK - The Peak Level. The output of a second peak detector may be viewed as LPK or logged. The frequency weighting is independent of the main RMS detector and may be set in the PAPA setup menu as 2PK. The selection of whether or not to log peaks is made in the LOG Setup Menu. The weighting selection (A, C or LIN) is made in the PAPA Setup Menu. While viewing LPK the weighting of the second peak detector is displayed, and the Weighting and Response keys are disabled.

LLOG - The LEQ (or LAVG) last logged during a study. Data is logged at a user defined interval. This feature may be used to display a timed LEQ for the previous logging interval. This display updates at the end of each logging interval. The display will show LLOG " if LEQ is not being logged.

TAKM - The time integration of individual Taktmaximal values. Taktmaximal is the maximum level (LMAX) encountered over either a 3 or 5 second interval. 3 or 5 second Taktmaximal is selected in the PAPA Setup Menu. Individual Taktmaximal (LMAX) values may be logged by setting the logging interval to 3 or 5 seconds in the LOG Setup Menu. Taktmaximal measurements are required by some countries' noise regulations. A Taktmaximal measurement calculates a higher average level for highly impulsive sounds than does a LEQ measurement. TAKM is affected by the Exchange Rate and should be run with an Exchange Rate of 3dB.

BATT - Displays the voltage of the weaker of the two 9 volt batteries to give an indication of remaining life. The low battery indication (DAT) on the display occurs at approximately 6.8 volts.

LC-A - An optional second RMS detector may be used to provide a simultaneous C-A weighted LEQ or LAVG of the measured sound. Refer to section 3.6 C-A Option".

DEFINITIONS

DbA- Sound level in decibels read on the A scale of sound-level meter. The A scale of a sound discriminates against very low frequencies (as does the human ear) and is therefore better for measuring general sound levels.

dBc- Sound level in decibels read on the C scale of sound-level meter. The C scale discriminates very little against very low frequencies.

Decibel (dB)- A unit used to express sound-power level (L) and sound-pressure level (Lv). Sound power is the total acoustic output of a sound source in watts (W). By definition, sound-power level, in decibels, is: $L_w = 10 \log W/W_o$, where W is the sound power of the source and W_o is the reference sound power of 10^{-12} . Because the decibel is also used to describe other physical quantities, such as electrical current and electrical voltage, the correct reference quantity must be specified.

Far field- In noise measurements, this refers to the distance from the noise source where the sound-pressure level decreases 6 dBA for each doubling of distance (inverse square law).

Filter- A device for separating components of a signal on the basis of its frequency. It allows components in one or more frequency bands to pass relatively unattenuated, and it greatly attenuates components in other frequency bands.

Free sound field (free field)- A field in a homogeneous, isotropic medium free from boundaries. In practice it is a field in which the effects of the boundaries are negligible over the region of interest.

Frequency (in Hz)- Rate at which pressure oscillations are produced. One hertz is equivalent to one cycle per second. A subjective characteristic of sound related to frequency is pitch.

Hearing conservation- The prevention or minimizing of noise-induced deafness through the use of hearing protection devices, the control of noise through engineering methods, annual audiometric tests, and employee training.

Hearing level- The deviation in decibels of an individual's threshold from the zero reference of the audiometer.

Near Field- In noise measurements, refers to a field in the immediate vicinity of the noise source where the sound-pressure level does not follow the inverse square law.

Noise- Any unwanted sound.

Pink noise- Noise that has been weighted, especially at the low end of the spectrum, so that the energy per band (usually octave band) is approximately constant over the spectrum.

Sound absorption coefficient- The ratio of the sound energy absorbed by the surface of a medium (or material) exposed to a sound field (or to sound radiation) to the sound energy incident on that surface.

Sound analyzer- A device for measuring the band-pressure level or pressure-spectrum level of a sound as a function of frequency.

Sound level- A weighted sound-pressure level obtained by the use of metering characteristics and the weighting A, B, or C specified in ANSI S1.4.

Sound-level meter and octave-band analyzer- Instruments for measuring sound-pressure levels in decibels referenced to 0.0002 microbars. Readings can also be made in specific octave bands, usually beginning at 75 Hz and continuing through 10,000 Hz.

Sound-pressure level, SPL- The level, in decibels, of a sound is 20 times the logarithm to the base 10 of the ratio of the pressure of this sound to the reference pressure, which must be explicitly stated.

Sound transmission- The word sound usually means sound waves traveling in air. However, sound waves also travel in solids and liquids. These sound waves may be transmitted to air to make sound we can hear.

APPENDIX 1: "REGLAMENTO PARA EL CONTROL DE LA CONTAMINACIÓN DE RUIDO"



DEPARTAMENTO DE ESTADO

Número: 8019

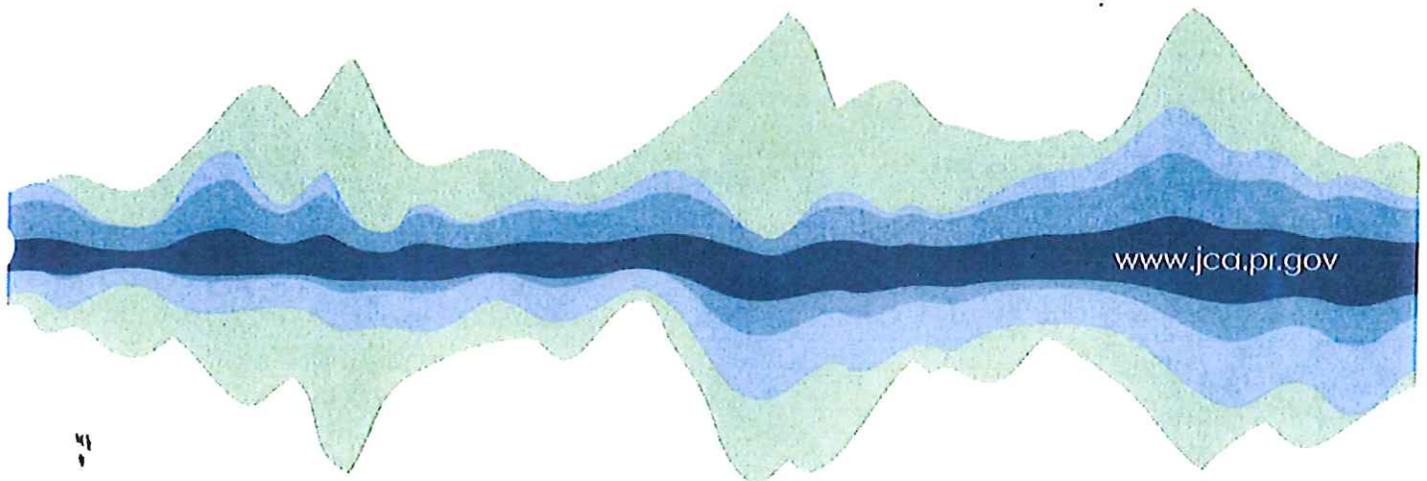
Fecha: 9 de mayo de 2011

Aprobado: Hon. Kenneth D. McClintock
Secretario de Estado



Por: Eduardo Arosemena Muñoz
Secretario Auxiliar de Servicios

Reglamento para el control de la CONTAMINACIÓN por RUIDOS



Gobierno de Puerto Rico • Oficina del Gobernador
JUNTA DE CALIDAD AMBIENTAL
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Sr. Reynaldo Matos
Miembro Asociado

Lcda. Blanche Gonzalez Hodge
Miembro Asociado

Lcdo. Pedro J. Nieves Miranda
Presidente

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Agencia que lo aprobó: Junta de Calidad Ambiental
Edificio Agencias Ambientales Cruz A. Matos
Urb. San José Industrial Park
1375 Avenida Ponce de León
San Juan, Puerto Rico 00926-2604

Referencia sobre autoridad estatutaria para promulgar el reglamento: Ley sobre Política Pública Ambiental, Ley Núm. 416 de 22 de septiembre de 2004, según enmendada

Reglamento Número: _____

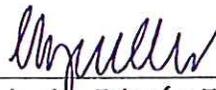
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febrero de 1987.

CERTIFICACIÓN

Certifico que el procedimiento de reglamentación seguido en este caso se llevó a tenor con las disposiciones de la Ley de Procedimiento Administrativo Uniforme, Ley Núm. 170 de 12 de agosto de 1988, según enmendada, y que el reglamento a que hace referencia este Volante Supletorio fue debidamente revisado y no contiene errores sustantivos, tipográficos o clericales. Además, Certifico que con el Volante Supletorio se acompaña copia de los avisos de prensa publicados.



Lcda. Edmée Zeidan Cuebas
Secretaría de la Junta de Gobierno de
la Junta de Calidad Ambiental

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PARTE I: DISPOSICIONES GENERALES

REGLA 1 – TÍTULO

Estas Reglas se conocerán como Reglamento para el Control de la Contaminación por Ruidos.

REGLA 2 – BASE LEGAL

Este Reglamento es promulgado bajo la autoridad conferida a la Junta de Calidad Ambiental de Puerto Rico, en adelante la JCA, mediante la Ley sobre Política Pública Ambiental, Ley Núm. 416 del 22 de septiembre de 2004, según enmendada, y de conformidad con las disposiciones de la Ley de Procedimiento Administrativo Uniforme, Ley Núm. 170 del 22 de agosto de 1988, según enmendada.

REGLA 3 – ENMIENDA AL REGLAMENTO PARA EL CONTROL DE LA CONTAMINACIÓN POR RUIDO

Este Reglamento enmienda el Reglamento para el Control de la Contaminación por Ruidos, Reglamento Núm. 3418 de 25 de febrero de 1987.

REGLA 4 – PROPÓSITO

Los propósitos de este Reglamento son:

- A. Establecer las normas y requisitos para el control, disminución o eliminación de ruidos que puedan resultar nocivos a la salud y perturbar el bienestar público.
- B. Establecer los requisitos para los niveles de emisiones de ruido entre zonas y para la administración y procedimientos relacionados con la valoración de los niveles sonoros.

REGLA 5 – VIGENCIA DEL REGLAMENTO

- A. Este Reglamento comenzará a regir a los treinta (30) días de su radicación en el Departamento de Estado.

- B. Todos los asuntos que hayan sido presentados con antelación a la vigencia de este Reglamento y que se encuentren pendientes ante la JCA o un tribunal con jurisdicción y competencia, continuarán su curso de acuerdo a lo establecido en el Reglamento Núm. 3418 de 24 de febrero de 1987.

REGLA 6 – CLÁUSULA DE SEPARABILIDAD

Si cualquier disposición del presente Reglamento fuese declarada ilegal o inconstitucional por un tribunal con jurisdicción y competencia, tal decisión no afectará las demás disposiciones del mismo, las cuales se mantendrán en pleno efecto y vigor, considerándose cada una por separado.

REGLA 7 – DISPOSICIONES CONFLICTIVAS O CONTRADICTORIAS

Cuando dos o más disposiciones de este Reglamento sean aplicables a la misma situación de hechos y éstas resultaran ser contradictorias o conflictivas entre sí, se aplicará la disposición que sea más restrictiva.

REGLA 8-9 –RESERVADAS

PARTE II: DEFINICIONES

REGLA 10 – DEFINICIONES

Para propósitos de este Reglamento, los siguientes términos tendrán los significados que se expresan a continuación y deberá entenderse que el singular incluye el plural y el masculino incluye el femenino:

- A. **Aerogenerador** – es un aparato que convierte la energía eólica en energía eléctrica mediante un generador accionado por el viento, conocido también como turbina eólica. Sus componentes estructurales y mecánicos incluyen una torre, góndola (en inglés, "nacelle"), generador, sistema de control y cimientos, entre otros.
- B. **Amortiguador de sonido ("muffler")** – es cualquier dispositivo o artefacto utilizado para reducir el sonido producido por la emisión de gases provenientes de un motor de combustión interna.
- C. **Bocina de aire** – es cualquier artefacto que se utilice para producir una señal de sonido y para lo cual se utilice gas comprimido.

- D. Construcción** – es cualquier actividad relacionada a la instalación de un equipo generador de sonido, movimiento de terreno, demolición, remoción o disposición, excavación y operaciones de terminaciones en edificios, predios, derechos de vías, estructuras públicas o privadas o propiedad similar.
- E. Contaminación por ruido** – es cualquier emisión de sonido que exceda los niveles de ruido permitidos en este Reglamento.
- F. Decibello o Decibel (dB)** – es una unidad para medir la intensidad del sonido, la cual es igual a veinte (20) veces el logaritmo de base 10 de la razón entre la presión del sonido y la presión de referencia, la que es 20 micro pascuales (μPa).
- G. dB(A)** – es la unidad de medida utilizada para comparar magnitudes del total de la presión de sonido cuando se usa la escala de medición "A" del sonómetro y usando una presión de referencia de 20 micro pascuales (μPa).
- H. Demolición** – es la destrucción, remoción o desmantelamiento intencional de estructuras de forma total o parcial, tales como, pero sin limitarse a, edificios públicos o privados, superficies de vía u otros similares.
- I. Día de la semana** – es cualquier día natural de la semana.
- J. Emergencia** – es cualquier determinación hecha por el Director Ejecutivo de la JCA o la Junta de Gobierno de la JCA, mediante Resolución al respecto, ante un evento particular, sobre cualquier situación o serie de situaciones que ponen en peligro real o inminente a cualquier persona, propiedad o recurso, y para el cual se requiere atención inmediata. Se entenderá también como emergencia, cualquier anomalía causada por un evento natural o tecnológico, tales como huracán, tornado, tormenta, inundación, terremoto, maremoto, derrumbe de tierra, sequía, incendio, explosión, accidente o materiales peligrosos, entre otros; cualquier grave perturbación del orden público o un ataque por fuerza enemiga a través de sabotaje o mediante el uso de bombas, artillería o explosivo de cualquier género o por medio atómico, radiológico, químico o bacteriológico, así como también por cualquier otro medio que utilice el enemigo en cualquier parte de Puerto Rico y que amerite que se movilicen y se utilicen recursos humanos y económicos extraordinarios a nivel estatal y municipal para remediar los daños causados o evitar los que puedan surgir en ese estado o para prevenir o disminuir la amenaza de que la emergencia pueda convertirse en un desastre.
- K. Emisión de Sonido** – es la emanación de sonido a la atmósfera por una

fuente emisora.

- L. **Espectro sonoro** – es la descripción de un sonido en términos de sus componentes de frecuencia. Se utiliza el análisis en bandas de 1/1 octava, 1/3 octava y el análisis de Fourier (FFT).
- M. **Fuente emisora** – es cualquier objeto o artefacto originador de ondas sonoras, sea de tipo estacionario, móvil o portátil.
- N. **Góndola** (“nacelle”) – es la estructura en la cima de la torre de un aerogenerador que contiene todos los componentes generatrices del aerogenerador, incluyendo el multiplicador y el generador eléctrico, entre otros.
- O. **Junta de Calidad Ambiental (JCA)** – es la agencia del Gobierno de Puerto Rico creada por la Ley Núm. 416 de 22 de septiembre de 2004, según enmendada, conocida como la Ley sobre Política Pública Ambiental.
- P. **Junta de Gobierno de la JCA** – es el organismo rector de la Junta de Calidad Ambiental, el cual se compone de tres miembros nombrados por el Gobernador con el consejo y consentimiento del Senado y se compone de un Presidente, un Vice-Presidente y un Miembro Asociado. Un Miembro Alterno, que también es nombrado por el Gobernador, podrá sustituir a cualquiera de los miembros asociados cuando uno de estos no se encuentre presente.
- Q. K_I – es la penalización por ruidos impulsivos ($L_{im} - L_{eq}$).
- R. K_t – es la penalización por tonos prominentes.
- S. L_{10} – es el nivel de sonido en la escala A, dB (A), que es excedido en un diez por ciento (10%) del tiempo para un determinado periodo bajo consideración.
- T. L_{90} – representa el nivel que ha superado el 90% del tiempo de medida. Es indicativo de los valores bajos de ruido.
- U. L_{im} – es el nivel máximo de presión observado con detección de “impulsos”.
- V. **L equivalente (L_{eq})** – es el nivel sonoro continuo equivalente; es decir, el nivel constante, dB(A), que puede producir la misma energía sonora (medida en escala A) que un sonido variante especificado en un tiempo establecido.
- W. **L equivalente tiempo ($L_{eq T}$)** – es el nivel sonoro continuo equivalente. Éste se

define como el valor del nivel de presión en dB en ponderación A de un sonido estable que en un intervalo de tiempo (T) posee la misma presión sonora cuadrática media (P_{rms} : valor eficaz) que el sonido que se mide y cuyo nivel varía con el tiempo.

X. **LJCA** – el nivel máximo permitido a la fuente por este Reglamento, excluyendo la influencia del ruido de fondo.

Y. **Límite de propiedad** – es límite de la colindancia del predio donde ubica la fuente originadora de sonido.

Z. **Medición de Sonido** – es la recopilación de datos sonoros de acuerdo a los procedimientos establecidos por la Junta de Calidad Ambiental.

AA. **Nivel de presión acústica ("Sound Pressure Level" o SPL)** – es la cantidad en decibeles que se obtiene como resultado del cálculo matemático que consiste del producto de 20 por el logaritmo de base 10 de la razón entre la presión acústica registrada (P) y el valor de la presión acústica de referencia (P_{ref}) que equivale a 2×10^{-5} Newtons/m²; esto es, " $20 \cdot \log_{10} (P/P_{ref})$ ".

BB. **Nivel de sonido o nivel sonoro** – es el nivel de presión de sonido medido mediante las características de medición y escalas A, B o C, tal como lo especifica la última revisión de "*Specification for Sound Level Meters*" de la "*American National Standards Institute*" (ANSI).

CC. **Ondas de sonido** – son las variaciones periódicas ondulatorias de sonido en la densidad y en la presión del medio.

DD. **Onda sonora** – es la variación en la presión de un medio (típicamente, el aire) y que se propaga a una velocidad característica.

EE. **Parte responsable** – es toda persona natural o jurídica que sea dueño u operador de la fuente emisora del ruido causando un incumplimiento con este Reglamento.

FF. **Periodo diurno** – es el periodo comprendido entre las 7:00 a.m. y las 10:00 p.m. de cualquier día de la semana.

GG. **Periodo nocturno** – es el periodo comprendido entre las 10:01 p.m. de un día y las 6:59 a.m. del día siguiente.

HH. **Persona** – es toda persona, natural o jurídica, o grupo de personas privadas o públicas, incluyendo agencias e instrumentalidades del gobierno, municipios u otras similares.

II. Predio originador de sonido – es el sitio, local o lugar de origen de ondas sonoras o cualquier área geográfica, incluyendo todos los terrenos y cuerpos de agua contiguos. Éste comprende todas las fuentes individuales de sonido que estén localizadas dentro de los límites de dicha propiedad, ya sean de tipo estacionario, móvil o portátil.

JJ. Predio originador de sonido existente – es cualquier predio originador de sonido existente a la fecha de vigencia de este Reglamento.

KK. Predio originador de sonido nuevo o modificado – es cualquier predio originador de sonido que sea establecido en una fecha posterior a la vigencia de este Reglamento, o que existiendo sea modificado de alguna manera.

LL. Presión acústica – son las variaciones en la fuerza por unidad de área, medida en Newtons/metro², que se observa en un medio durante la propagación de una onda acústica. Para el caso del medio "aire", se registran variaciones por encima y por debajo de la presión atmosférica local.

MM. Presión de onda sonora– se representa como "Lp" y se expresa en decibeles. Esta cantidad se obtiene como resultado de un cálculo matemático que consiste del producto de 20 por el logaritmo de base 10 de la razón entre la presión de sonido (P) y una presión de referencia (P_{ref}) de 20 micro pascales (μPa); esto es, $L_p = 20 \cdot \log_{10} (P/P_{ref})$.

NN. Rotor – está compuesto por varias palas y es el que transforma la energía cinética del viento en un momento torsor en el eje del equipo.

OO. Ruido – es un sonido que excede las limitaciones (valores) establecidos en este Reglamento. El sonido podría o no resultar indeseable y afectar psicológicamente y/o fisiológicamente al ser humano.

PP. Ruido continuo – es aquel ruido que se manifiesta ininterrumpidamente durante más de tres minutos. Dentro de esta categoría se diferencian las siguientes tres situaciones:

- 1. Ruido continuo fluctuante** – es aquel ruido cuyo nivel de presión acústica, (SPL), varía entre unos límites que difieren en más de 6 dB(A) cuando se utiliza la respuesta rápida ("fast") del sonómetro.
- 2. Ruido continuo uniforme** – es aquel ruido cuyo nivel de presión acústica, (SPL), varía entre unos límites que difieren en menos de 3 dB(A) cuando se utiliza la respuesta rápida ("fast") del sonómetro.

- 3. Ruido continuo variable** – es aquel ruido cuyo nivel de presión acústica, (SPL), varía entre unos límites que van desde 3 a 6 dB(A) cuando se utiliza la respuesta rápida ("fast") del sonómetro.
- QQ. Ruido de fondo ambiental** – es el ruido existente en un ambiente dado y que se compone, usualmente, de sonidos de diversas fuentes, cercanas y lejanas. Se excluye la fuente de ruido que da lugar a la querrela.
- RR. Ruido de fondo despreciable** – es un ruido de fondo cuyo nivel está sobre los 10 dB de diferencia al de la fuente sonora que se desea medir.
- SS. Ruido de fondo elevado** – es un ruido de fondo cuya diferencia es menor de 3 dB cuando se compara con el ruido de la fuente sonora.
- TT. Ruido esporádico** – es aquel ruido que se manifiesta interrumpidamente durante un periodo de tiempo igual o menor de tres (3) minutos.
- UU. Ruido esporádico aleatorio** – es aquel ruido esporádico que se produce de forma totalmente impredecible.
- VV. Ruido esporádico intermitente** – es aquel ruido esporádico que se repite en periodos de tiempo que son posibles de determinar.
- WW. Ruido estridente** – es un ruido agudo, desapacible y chirriante.
- XX. Ruido impulsivo** – es un ruido procedente de un sonido impulsivo.
- YY. Ruido perturbador** – es un ruido que atenta contra la paz y/o tranquilidad de una persona y que viola las disposiciones de este Reglamento.
- ZZ. Sistema de generación de energía eólica** – es un sistema compuesto de uno o más aerogeneradores y sus obras accesorias. Para propósito de este Reglamento, este sistema podrá clasificarse en uno de tres grupos básicos conforme a las siguientes definiciones:
- 1. Sistema de generación de energía eólica de escala pequeña** – es aquel que en total tiene una capacidad nominal para generar hasta veinte (20) kilowatts (kW) de electricidad.
 - 2. Sistemas de generación de energía eólica de escala mediana o distribuida** – es aquel que se compone de uno (1) a cinco (5) aerogeneradores y que en total tiene una capacidad nominal para generar más de veinte (20) kilowatts (kW) de electricidad, pero en el que

ninguno de los aerogeneradores tiene la capacidad para generar individualmente más de un (1) megawatt (MW) de electricidad.

3. Sistemas de generación de energía eólica de gran escala o escala industrial – es aquel que se compone de más de cinco (5) aerogeneradores o que, de estar compuesto por menos de cinco (5) aerogeneradores, incluye al menos un (1) aerogenerador que tiene la capacidad individual para generar un (1) megawatt (MW) de electricidad o más.

AAA. Sonido – es un fenómeno físico en el cual la materia se pone en vibración y genera una onda acústica en un medio particular que es captada por un receptor. Éste se puede describir usando diversas características, tales como: longitud de onda, velocidad de propagación, nivel sonoro, contenido espectral y duración.

BBB. Sonido impulsivo – es un sonido de muy corta duración, generalmente de una fracción de segundo y con una abrupta subida y rápida disminución de presión acústica. Ejemplos típicos de este tipo de sonido son las explosiones, impactos de martillo, descargas de armas de fuego, entre otros.

CCC. Sonido indeseable – es aquel sonido que excede los niveles permitidos en este Reglamento.

DDD. Sonómetro – es un instrumento que se usa para medir los niveles de sonido, de acuerdo con el "*Specification for Sound Level Meters*" Type 1 y 2, o la última revisión aprobada de la "*American National Standards Institute*" (ANSI). Incluye el sonómetro de precisión calibrada y el sonómetro integrado de precisión.

EEE. Tono – es un sonido caracterizado por una sola frecuencia e incluye cualquier sonido que pueda ser percibido como un tono único o una sucesión de tonos.

FFF. Torre – es una estructura que soporta la góndola y el rotor en un aerogenerador.

GGG. Vehículo de motor – es cualquier vehículo impulsado o movido sobre el terreno por un motor. Incluye vehículos tales como, pero sin limitarse a, vehículos de pasajeros, camiones, camiones de arrastre, arrastres de acampar, vehículos de carreras, vehículos de recreación y motocicletas.

HHH. Vía pública – es cualquier vía, calle, carretera, autopista, avenida, callejón, acera o espacio similar destinado al uso público.

III. Vibración – es un movimiento oscilatorio de cuerpos materiales y que es descrito por las variables de velocidad, aceleración y amplitud.

JJJ. Zona – cualquiera de las áreas en la que el ser humano lleva a cabo diversas actividades y que han sido clasificadas en este Reglamento como: zona de tranquilidad, zona residencial, zona comercial o zona industrial.

KKK. Zona Comercial – área donde se agrupan locales comerciales no habitados por humanos y en los que se vende toda clase de mercancía o se brindan servicios misceláneos. En esta zona se permiten niveles superiores a los permitidos en las zonas residenciales, pero inferiores a los niveles de ruido en las zonas industriales. Esta definición incluye, pero no se limita, a áreas tales como las siguientes: establecimientos comerciales de alimentos, estaciones de servicios de vehículos, recreación y entretenimiento, servicios comunales.

LLL. Zona de Tranquilidad – área previamente designada por el gobierno estatal, municipal o federal, en la que haya necesidad de una tranquilidad excepcional.

MMM. Zona Industrial – área de terreno subdividida y desarrollada, de acuerdo con un plan general, para el uso de una cantidad de empresas industriales en la cual los seres humanos van a permanecer por largos periodos de tiempo. Las actividades económicas que envuelve esta zona, son de tal naturaleza que se anticipan niveles mayores de ruido que en las otras zonas.

NNN. Zona Residencial – área en la cual los seres humanos habitan y donde los niveles de ruido pueden interferir con el disfrute de la propiedad. Ésta incluye todas las residencias, terrenos y estructuras. Dicha zona aplica también a cualquier sitio dentro de los límites de la propiedad, según sea aplicable.

PARTE III: DISPOSICIONES ADMINISTRATIVAS

REGLA 11 – DERECHO DE UN FUNCIONARIO A ACCEDER, INSPECCIONAR, EXAMINAR O LLEVAR A CABO CUALQUIER ACCIÓN PERTINENTE

A. La JCA, representada por sus miembros, agentes o empleados, podrá acceder, inspeccionar, examinar y llevar a cabo cualquier otra acción autorizada por este Reglamento, por la Ley sobre Política Pública Ambiental, *supra*, por la Ley de Procedimiento Administrativo Uniforme, *supra*, o por un Tribunal con jurisdicción y competencia. Estas acciones podrán llevarse a

cabo en cualquier local, equipo, instalación y/o documentos de cualquier persona, entidad, firma, agencia o instrumentalidad gubernamental sujeta a su jurisdicción. Estas gestiones serán realizadas con el fin de investigar, inspeccionar o tomar aquellas medidas que se estimen necesarias para asegurar las mejores condiciones ambientales, verificar el cumplimiento con las disposiciones de este Reglamento y tomar las medidas de sonido que la JCA estime necesarias.

- B. En caso de que a un funcionario de la JCA que esté identificado como tal, se le niegue el acceso o se le impida realizar una inspección o cualquier acción autorizada en ley, la JCA podrá expedir una orden administrativa u obtener una orden judicial, según los procedimientos dispuestos por la Ley sobre Política Pública Ambiental, *supra*, la Ley de Procedimiento Administrativo Uniforme, *supra*, o cualquier otra ley especial.
- C. Cualquier solicitud de documentos que se encuentre dentro del ámbito jurisdiccional de la JCA que sea hecha por un funcionario de esta agencia y que esté debidamente identificado y autorizado para llevar a cabo una inspección o cualquier asunto comprendido en la Ley de Política Pública Ambiental, *supra*, o en este Reglamento, tendrá que ser provista dentro de un término no mayor de cuarenta y ocho (48) horas o aquel período de tiempo que disponga la JCA.

REGLA 12 – INFORMACIÓN DISPONIBLE AL PÚBLICO

- A. Toda información recibida por la JCA estará disponible para ser inspeccionada y copiada por el público, según dispuesto en la Ley sobre Política Pública Ambiental, *supra*, en este Reglamento o en cualquier mecanismo que para ello se apruebe por la JCA.
- B. Cualquier persona que someta información y documentos a la JCA, podrá reclamar confidencialidad para toda o parte de la información o documento sometido. Dicha solicitud deberá realizarse por escrito y expondrá todas las razones por las cuales se solicita la confidencialidad.
- C. Cualquier información o documento presentado a la JCA sin haberse presentado la correspondiente solicitud de confidencialidad conforme a lo aquí dispuesto, estará disponible al público sin restricción alguna. La JCA adjudicará los reclamos de confidencialidad de conformidad con la Ley sobre Política Pública Ambiental, *supra*, o cualquier mecanismo que a tales efectos apruebe la Junta de Gobierno de la JCA.

REGLA 13 – NOTIFICACIÓN DE VIOLACIÓN Y ÓRDENES ADMINISTRATIVAS

- A. Siempre que la JCA encuentre que una o más disposiciones de este Reglamento han sido violadas o haya motivos fundados para pensar que han sido violadas, la JCA podrá, a su discreción, expedir por escrito una notificación de violación en contra del alegado infractor. Toda notificación especificará en qué consistió la violación y/o los aspectos que están fuera de cumplimiento con esta reglamentación.
- B. La notificación de la que habla el inciso anterior especificará los requisitos y las condiciones que la JCA determine necesarios y podrá incluir términos de tiempo para lograr cumplimiento. No obstante lo antes mencionado e independientemente de que se haya expedido una notificación de violación, la JCA podrá expedir una Orden Administrativa de Hacer, Mostrar Causa y/o, Cese y Desista, así como cualquier otra acción o provisión disponible en la Ley sobre Política Pública Ambiental, *supra*.

REGLA 14 – PENALIDADES

- A. Cualquier violación a este Reglamento estará sujeta a las penalidades según establecidas en la Ley sobre Política Pública Ambiental, *supra*.
- B. La imposición de penalidades se realizará luego de finalizado un proceso de vista administrativa, el que se conducirá según las disposiciones de la Ley de Procedimiento Administrativo Uniforme, *supra*, la Ley sobre Política Pública Ambiental, *supra*, y el reglamento aprobado por la JCA para la celebración de procedimientos y/o vistas administrativas.

REGLA 15 – ESTORBO PÚBLICO

Ninguna parte de este Reglamento deberá entenderse como que autoriza o legaliza la creación o mantenimiento de un estorbo público, según ha sido definido por las leyes estatales y federales.

REGLA 16 – ACCIONES LEGALES DE CIUDADANOS

Ninguna parte de este Reglamento deberá entenderse como un límite a las acciones legales civiles que pudiesen llevar los ciudadanos, según se establece en el Artículo 19 de la Ley sobre Política Pública Ambiental, *supra*.

REGLA 17 – RESPONSABILIDAD DE CUMPLIMIENTO

Este Reglamento no limita el derecho de persona alguna para exigir o lograr el cumplimiento con sus requisitos o para proveer los servicios requeridos al

contratar con terceros. Sin embargo, tales contratos no relevarán a ninguna persona de la obligación de cumplir con este Reglamento.

REGLA 18-19- RESERVADAS

PARTE IV: PROHIBICIONES Y REQUISITOS GENERALES

REGLA 20- PROHIBICIONES GENERALES

A. Acciones prohibidas

Queda prohibida cualquier acción u omisión en violación a los requisitos establecidos en este Reglamento. Por tanto, ninguna persona causará o permitirá que se produzca la contaminación por ruido debido a la emisión de cualquier sonido en violación a este Reglamento.

B. Información Falsa o Errónea.

Ninguna persona podrá someter por sí o por una tercera persona, información falsa o errónea a la JCA. Tampoco podrá incluir o permitir que se incluya información falsa en algún documento sometido a la JCA en virtud de este Reglamento.

C. Interferencia

Ninguna persona causará o permitirá:

1. La interferencia, alteración, remoción o destrucción de cualquier equipo de control de ruido, excepto que no sea para propósitos de reparación o reposición.
2. La interferencia intencional o alteración de cualquier instrumento, artefacto o área de localización debidamente rotulada, que haya sido localizado por o para la JCA con el propósito de llevar a cabo cualquier tipo de medición de sonido.
3. El uso de un producto al cual le haya sido removido o dejado inoperante el sistema de control de ruido, cualquier elemento de diseño de éste o su rótulo de nivel de sonido.

D. Registros o Récor ds

La JCA podrá requerir del dueño o persona responsable de cualquier predio originador de sonido o fuente emisora de sonido, que establezca y mantenga un registro sobre la emisión de los mismos, así como preparar aquellos informes que, a juicio de la JCA, sean necesarios.

E. Mediciones

Todas las mediciones y los análisis de datos se harán de acuerdo con los métodos y procedimientos adoptados o aceptados por la JCA conforme a este Reglamento.

F. Equipo

Todo equipo para el control de la contaminación por ruidos deberá instalarse, conservarse y operarse en forma satisfactoria y razonable de acuerdo con las especificaciones del fabricante, de la "American National Standards Institute" (ANSI), *Specification for Sound Level Meter, S1.4-1971*, o su última revisión, así como con aquellos requisitos establecidos por la JCA.

REGLA 21 – RUIDOS PROHIBIDOS

A. Las siguientes acciones, entre otras, se declaran como ruidos contaminantes, excesivos, perturbadores y estridentes y están prohibidos por este Reglamento:

1. Bocinas y sirenas

Ninguna persona ocasionará o permitirá, innecesariamente, el sonar de bocinas y sirenas de cualquier vehículo de motor en una vía pública o predio originador de sonido, excepto como una señal de peligro o en casos de emergencia, según definido en este Reglamento.

2. Radios, Instrumentos musicales, velloneras, amplificadores y artefactos similares

Ninguna persona operará o permitirá la operación de cualquier radio, instrumento musical, vellonera, amplificador o cualquier artefacto similar para la producción o reproducción de sonido, de tal forma que ocasione contaminación por ruido a través del límite de propiedad, en violación de los límites fijados en este Reglamento.

3. Altoparlantes exteriores, megáfonos y artefactos similares

Ninguna persona usará u operará o permitirá el uso u operación de cualquier altoparlante, megáfono o artefacto similar en una posición fija o movible en el exterior de cualquier estructura o vehículo de motor, en exceso de los niveles máximos permitidos bajo este Reglamento. No podrán usarse dichos artefactos durante el periodo nocturno.

4. Construcción

Ninguna persona usará u operará o permitirá el uso u operación de cualquier equipo para la construcción, reparación o trabajos de demolición, de forma que se produzca contaminación por ruido, según se define en este Reglamento. Además, se prohíbe el uso u operación de dicho equipo durante el periodo nocturno, excepto para realizar obras en casos de emergencia, según definido en este Reglamento.

Esta Sección no aplicará al uso de herramientas domésticas, sujeto a este Reglamento.

5. Vehículos de motor

- a. Ninguna persona operará o permitirá la operación de un vehículo de motor en una vía pública en cualquier momento de forma tal que los niveles de presión de sonido emitidos por el vehículo excedan los niveles máximos permisibles establecidos en este Reglamento. Tampoco se permitirá la operación de un vehículo de motor que no esté equipado por un sistema, aparato o artefacto amortiguador de sonido que opere eficientemente.
- b. Ninguna persona dejará operando o permitirá la operación de cualquier vehículo de motor o cualquier equipo auxiliar de arrastre estacionado en una vía pública o predio de estacionamiento público o privado, a una distancia menor de 150 pies de la zona designada como residencial o tranquilidad durante el periodo nocturno. Esta prohibición abarca todo equipo que forme parte del vehículo de motor, tales como, pero no limitados a, equipo de refrigeración o equipo similar.

6. Eventos de vehículos de motor de carreras

Ninguna persona realizará o permitirá la realización de pruebas o carreras de vehículos de motor, en violación de las normas establecidas

en este Reglamento. Dicha prohibición está exceptuada para aquellas pistas autorizadas en forma prescrita por la JCA.

7. Vehículos de recolección de desperdicios sólidos

- a. Ninguna persona operará o permitirá la operación del mecanismo de compactar desperdicios sólidos en cualquier vehículo de motor, de tal forma que durante el ciclo de compactación se exceda el nivel de presión de sonido de 76 dB(A) medido a una distancia de 23 pies o su equivalente, desde cualquier punto del vehículo.
- b. Ninguna persona recolectará o permitirá la recolección de desperdicios sólidos en las zonas residenciales y de tranquilidad entre las 10:00 p.m. de un día a las 6:00 a.m. del siguiente día.

8. Alarmas

Ninguna persona sonará o permitirá el sonar de cualquier alarma exterior en cualquier edificio o vehículo a menos que tal alarma cese su operación dentro de diez (10) minutos luego de ser activada y cuya finalidad tenga el propósito de alertar una emergencia u acto criminal.

9. Maquinaria, equipo, abanicos y acondicionador de aire

Ninguna persona operará o permitirá la operación de maquinaria, equipo, abanicos y acondicionadores de aire de tal forma que excedan los límites máximos de niveles de presión de sonido establecidos en este Reglamento.

10. Reparación y prueba de vehículos de motor

La reparación, remodelación, reconstrucción, fabricación o prueba de cualquier vehículo de motor o motocicletas estará sujeta a los niveles máximos permisibles de sonidos fijados en este Reglamento.

11. Equipo de motor doméstico (*Domestic Power Tools*)

Ninguna persona operará o permitirá la operación de equipos de motor tales como: sierras, lijadoras, taladros, máquinas de cortar grama y equipo de jardín o herramientas de cualquier naturaleza, usados primordialmente para propósitos domésticos en el exterior e interior de residencias, durante las horas que comprende el periodo nocturno. Tampoco se podrá operar o permitir la operación de tal equipo de motor

en cualquier momento, de tal forma que viole las disposiciones de este Reglamento.

12. Venta por pregono

Ninguna persona venderá o permitirá la venta de cualquier producto pregonando en cualquier área, mediante el uso de sistemas de amplificación, de forma que la emisión de sonidos exceda los niveles máximos permisibles especificados en este Reglamento. Además, queda prohibida la venta por pregono durante el periodo nocturno.

13. Vibración

Ninguna persona operará o permitirá la operación de cualquier artefacto que genere vibraciones causadas por ondas sonoras o presión de sonido que puedan percibirse sin instrumentos, o que esté sobre los límites de percepción de una persona, en o más allá de los límites de cualquier propiedad contigua a la fuente originadora.

- B. Zona de Tranquilidad – Ninguna persona emitirá o permitirá la emisión de cualquier ruido innecesario, inesperado o inusitado, en violación a este Reglamento, en zonas donde sea necesaria tranquilidad mientras la misma está en uso. El área designada como zona de tranquilidad deberá estar provista de señales y rótulos conspicuos que hayan sido desplegados en calles adyacentes o contiguas, indicando que la misma es una zona de tranquilidad.

REGLA 22-23 – RESERVADAS

PARTE V: CLASIFICACIÓN DE ZONAS Y LOS NIVELES DE EMISIÓN DE SONIDOS ENTRE ZONAS

REGLA 24 – APLICABILIDAD

Esta Parte aplica a la fuente emisora o predio originador de cualquier sonido que pueda cruzar los límites de propiedad y exceder los niveles establecidos en la Tabla I, según medido en la zona receptora apropiada.

REGLA 25 – CLASIFICACIÓN DE ZONAS

A. Zona I: Residencial – Incluye, pero no se limita, a áreas tales como las siguientes:

1. Residencias

- a. permanentes
- b. rurales o campestres
- c. de verano

2. Viviendas comerciales

- a. hoteles y moteles
- b. apartamentos alquilados
- c. parques de casas móviles
- d. campamentos
- e. cabañas
- f. casa de huéspedes
- g. dormitorios estudiantiles

3. Servicios a la comunidad

- a. orfanatos
- b. instituciones correccionales
- c. instituciones de caridad

B. Zona II: Comercial – Incluye, pero no se limita, a áreas tales como:

1. Establecimientos comerciales de alimentos

- a. restaurantes
- b. comedores
- c. cafeterías
- d. heladerías
- e. clubes nocturnos
- f. cafetería al aire libre o rodante
- g. carnicerías
- h. supermercados

2. Estaciones de servicios de vehículos

- a. gasolineras
- b. venta y renta de vehículos de motor

- c. estacionamientos de vehículos públicos y privados
- d. centro de lavado de vehículos de motor
- e. servicios de reparación (hojalatería, pintura y mecánica, electrónica)
- f. servicio de accesorios para vehículos de motor

3. Comerciales

- a. funeraria
- b. clínicas veterinarias
- c. barberías
- d. salones de Belleza
- e. lavanderías
- f. oficinas
- g. farmacias
- h. centros comerciales

4. Recreación y entretenimiento

- a. teatros
- b. estadios
- c. hipódromos
- d. campos de golf
- e. lugares de diversiones y recreación
- f. playas, Ríos, Lagos y Lagunas
- g. plazas públicas
- h. gimnasios
- i. salones de bailes y discotecas

5. Servicios comunales

- a. iglesias
- b. centros culturales
- c. cotos de caza y pesca
- d. bosques estatales o nacionales

C. Zona III: Industrial – Incluye, pero no se limita, a áreas tales como:

1. Establecimientos de carga y descarga

- a. ferreterías
- b. almacenes, madereras, tiendas de ventas al por mayor
- c. terminal de camiones
- d. muelles
- e. depósito de materiales de construcción

f. instalación de desperdicios sólidos no peligrosos o peligrosos

2. Área Industrial: propiedades utilizadas en la fabricación de bienes de consumo

- a. minería
- b. industrias livianas y pesadas
- c. petroquímicas
- d. refinerías
- e. extracción y procesamiento de materiales de la corteza terrestre
- f. siderúrgicas
- g. canteras
- h. central termoeléctrica
- i. farmacéuticas
- j. procesamiento agroquímicos
- k. almacenamiento de tanques de gas

3. Agricultura: área utilizada en la producción de cultivos de cosechas y/o crianza de animales

- a. granjas avícolas, conejos, porcinos y apicultura (abejas)
- b. vaquerías
- c. invernaderos
- d. graneros
- e. siembra, cultivo
- f. caballerizas

D. Zona IV: Tranquilidad – Incluye, pero no se limita, a áreas tales como:

- 1. Hospitales
- 2. Clínicas
- 3. Hospitales de salud mental
- 4. Tribunales de justicia
- 5. Asilos de ancianos
- 6. Escuelas
- 7. Guardería o cuidados infantiles

REGLA 26 – LÍMITE DE NIVELES DE SONIDO

Ninguna persona emitirá o permitirá la emisión de cualquier sonido, el cual al cruzar el límite de propiedad del predio originador de sonido, pueda exceder los niveles establecidos en la Tabla I de este Reglamento, según medido en la zona receptora apropiada de acuerdo con las definiciones de este Reglamento.

REGLA 27 – LÍMITES DE NIVELES DE SONIDO PARA AEROGENERADORES O SISTEMAS DE GENERACIÓN DE ENERGÍA EÓLICA

A fin de establecer los límites de sonido para los casos en que la fuente emisora de sonido es un aerogenerador o sistema de generación de energía eólica, según definido en este Reglamento, se aplicará la Tabla I con los siguientes ajustes:

- A. Cuando la fuente emisora es un aerogenerador o sistema de generación de energía eólica y la zona receptora es una Zona I (residencial), para el periodo nocturno con un nivel de sonido establecido de 50 dB(A), se realizará el ajuste de añadir 5 dB(A), a fin de que el nivel de sonido en estos casos sea de 55 dB(A).
- B. Cuando la fuente emisora es un aerogenerador o sistema de generación de energía eólica y la zona receptora es una Zona IV (tranquilidad) para el periodo nocturno con un nivel de sonido establecido de 50 dB(A), se realizará el ajuste de añadir 5 dB(A), a fin de que el nivel de sonido en estos casos sea de 55 dB(A).

TABLA I
LIMITE DE NIVELES DE SONIDO
dB(A)
Nivel de Sonido Excedido en 10 % del Periodo de Medición (L₁₀)

FUENTE EMISORA	ZONAS RECEPTORAS							
	Zona I (Residencial)		Zona II (Comercial)		Zona III (Industrial)		Zona IV (Tranquilidad)	
	D	N	D	N	D	N	D	N
Zona I (Residencial)	60	50	65	55	70	60	55	50
Zona II (Comercial)	65	50	70	60	75	65	55	50
Zona III (Industrial)	65	50	70	65	75	75	55	50
Zona IV (Tranquilidad)	65	50	70	65	75	75	55	50

Nota: "D" implica el periodo diurno y "N" implica el periodo nocturno.

REGLA 28 – MONITOREO

- A. A los únicos fines de orientar sobre la reglamentación de la JCA a una potencial fuente de ruidos que se presume podría emitir ruidos en violación a este Reglamento, personal de la JCA podrá requerir el encendido de la fuente, siempre y cuando la misma esté instalada o construida. Dicho encendido se solicitará con el fin de evaluar los niveles de sonido que genera la fuente. De no estar en cumplimiento con este Reglamento, la JCA podrá emitir una Notificación de Cortesía apercibiéndole de las violaciones a las que se expone de encontrarse operando la fuente.
- B. La JCA podrá requerir de cualquier predio originador de sonido o fuente emisora de ruido, que instale, opere y mantenga un equipo de monitoreo, así como la preparación y radicación de informes sobre la misma.

REGLA 29 – EXCEPCIONES A LAS PROHIBICIONES

A. Durante el periodo diurno

Las prohibiciones establecidas en esta Regla aplicarán a las fuentes emisoras o predio originador de cualquier sonido que pueda cruzar los límites de la propiedad. Las siguientes acciones, cuando se lleven a cabo durante el periodo diurno (7:00 a.m. a 10:00 p.m.), estarán exentas de los requisitos establecidos en este Reglamento:

1. los sonidos emitidos por los proyectos temporeros para la reparación y mantenimiento de hogares y sus dependencias,
2. los sonidos emitidos durante la instalación y reparación de servicios públicos esenciales, y
3. los sonidos emitidos por un disparo de armas livianas de fuego en polígonos de tiro autorizados.

B. Emergencias

No se considerará contaminación por ruido aquel sonido que, generado en exceso de los niveles autorizados en este Reglamento, sea realizado al efectuarse un trabajo de emergencia, según definido en este Reglamento, para proteger la salud, seguridad o bienestar inmediato de la comunidad o individuos, o restauración de la propiedad como medida de seguridad luego de un desastre. Nada de lo contenido en este inciso se entenderá como que permite al personal de emergencia, policías, bomberos o conductores de

ambulancias y otros similares a producir ruidos durante el cumplimiento de sus deberes cuando tales ruidos sean claramente innecesarios.

C. Excepciones generales

Las siguientes situaciones se considerarán como excepciones adicionales a la prohibición de ruidos, según definido en este Reglamento:

1. los sonidos emitidos por artefactos para la prevención de accidentes;
2. los sonidos emitidos por asambleas, actos públicos y paradas no rufinarias;
3. los sonidos emitidos por el disparo de armas livianas de fuego durante la temporada de caza siempre que se produzcan en áreas designadas para esos fines;
4. los sonidos emitidos por las calderas de refinerías de petróleo y las plantas generatrices de electricidad durante el encendido de esas calderas;
5. los sonidos emitidos por campanas, campanarios y/o carillones que se extienden hasta quince (15) minutos;
6. el sonido emitido por la voz humana no amplificada;
7. el sonido emitido por los animales;
8. el sonido emitido por el encendido de plantas de emergencia como parte del proceso de calentamiento, siempre que no exceda los diez (10) minutos; y
9. el sonido emitido por los aeroplanos, ya que el mismo está regulado por la Ley Federal de la Administración Federal de Aviación (Federal Aviation Administration) y las normas de ruido establecidas por la Agencia Federal de Protección Ambiental (*Environmental Protection Agency*) para la manufactura de nuevos productos.

D. La mejor tecnología de control

Nada de lo contenido en esta sección se entenderá como que impedirá a la JCA requerir la instalación de la mejor tecnología de control de ruido disponible en el mercado para aquellas actividades que se declaran exentas de las disposiciones de este Reglamento.

REGLA 30 – CONSEJO ASESOR PARA ASUNTOS RELIGIOSOS

El Director Ejecutivo de la JCA constituirá un Consejo Asesor sobre Asuntos Religiosos para asesorar a la JCA en el establecimiento de la política pública ambiental que de alguna manera incida en el derecho constitucional de libre culto que les asiste a las instituciones religiosas en Puerto Rico. Este Consejo Asesor estará compuesto, entre otros, por líderes de organizaciones religiosas debidamente establecidas en Puerto Rico. Dicho Consejo Asesor establecerá su organización interna.

REGLA 31 – CRITERIOS PARA LA TOMA DE MEDICIONES

Los siguientes criterios serán utilizados para identificar condiciones que requieren la mitigación de ruidos relacionados al tránsito en las vías públicas, siempre que éstos sean la fuente emisora más prominente. Esta evaluación requiere la determinación del nivel equivalente, L_{eq} 1hr (1HL), correspondiente a la hora del día o de la noche en que se registra el mayor impacto de ruido, según se describe en la Tabla II.

**TABLA II
CRITERIOS PARA LA TOMA DE MEDICIONES**

CATEGORÍA	1HL	DESCRIPCIÓN DE USOS Y ACTIVIDADES
A	57 dBA (exterior)	Lugares que requieren tranquilidad excepcional y preservación del ambiente
B	67 dBA (exterior)	Viviendas, hoteles, parques, iglesias, escuelas, bibliotecas, hospitales
C	72 dBA (exterior)	Desarrollos no incluidos en A y B, y comercios e industrias
D	(No hay límites establecidos)	Tierras no desarrolladas
E	52 dBA (interior)	Viviendas, hoteles, edificios públicos, iglesias, escuelas, bibliotecas, hospitales, auditorios, edificios comerciales

Estos criterios son cónsonos con las recomendaciones de la Administración Federal de Carreteras (*Federal Highway Administration*). Como los límites indicados no representan condiciones normales aceptables, se recomienda en cada caso la implantación de mitigación de ruidos que provean atenuación mínima del orden de 10 dB(A).

REGLA 32-33- RESERVADAS

PARTE VI: VALORACIÓN DE LOS NIVELES SONOROS

REGLA 34 – APLICABILIDAD

Esta Parte aplicará a todo procedimiento en el que se valorará el nivel sonoro, incluyendo el equipo utilizado.

REGLA 35 – CONSIDERACIONES GENERALES SOBRE EQUIPO SONOMÉTRICO

- A. El sonómetro deberá cumplir con las normas de la *American National Standards Institute* para instrumentos Tipo I o Tipo II, las cuales están disponibles en la Biblioteca de la JCA.
- B. El sonómetro tiene que estar en total funcionamiento y deberá tener baterías con la carga suficiente para evitar que el aparato indique necesidad de reemplazo de baterías durante una medición.
- C. El sonómetro tiene que ser verificado en su calibración antes y después de cada medición sonométrica.

REGLA 36 – PROTOCOLO PARA MEDICIONES SONOMÉTRICAS

- A. Se utilizará un sonómetro para determinar el nivel de sonido L_{10} . Se determinará el valor de L_{10} registrado en un intervalo no menor de treinta (30) minutos de duración. Deberá considerarse si la fuente emisora opera el mínimo de tres (3) minutos, que es el nivel de sonido correspondiente al L_{10} del periodo de medición. Se podrán tomar muestras adicionales para asegurarse que dichas medidas son representativas de las emisiones de la fuente, según medidas en la zona receptora correspondiente.
- B. Se empleará la escala de ponderación de frecuencias A ("*A-weighting*") en todas las mediciones. Los niveles de sonido se indicarán en dB(A).

- C. La respuesta del detector del sonómetro ("response") se colocará en la posición de Integración rápida ("fast") y si las oscilaciones de la lectura fueran superiores a 4 ó 5 dB(A), se cambiará a respuesta lenta ("slow").

REGLA 37 – RUIDO DE FONDO

A. Consideraciones

1. El ruido de fondo no debe "ahogar" la señal que es de interés.
2. El nivel de la señal (fuente emisora) debe ser por lo menos de 3 dB superior al ruido de fondo.
3. Si el nivel de ruido de fondo es 3 dB menos que la fuente generante, no se realizará una medición de precisión del efecto de la fuente sonora.
4. La medición de ruido de fondo se realizará en términos de la estadística L_{sp1} , según medido durante un intervalo continuo no menor de tres (3) minutos de duración.
5. Se podrán tomar muestras adicionales del nivel de ruido de fondo para asegurar que las medidas obtenidas son representativas del ambiente acústico existente en el lugar.
6. Si el operador de la fuente causante del ruido no acata la solicitud del funcionario de la JCA para detener el equipo o las actividades ruidosas durante el tiempo requerido para realizar las mediciones de ruido de fondo o el operador de la fuente no se encuentra en la facilidad, o por situaciones de emergencia y/o seguridad no sea posible detener el equipo o las actividades ruidosas, no se incluirá ajuste alguno por ruido de fondo. Bajo estas circunstancias se asumirá que los niveles de ruido observados son causados enteramente por la fuente emisora. Dicho hecho se hará constar como parte del informe realizado.

B. Procedimiento a seguir en condiciones de un nivel de ruido de fondo elevado:

1. Se tomará la medida del nivel de sonido con la fuente de ruido funcionando (L_{sn}).
2. Se tomará la medida del nivel de ruido de fondo con la fuente detenida (L_n).
3. Se calculará la diferencia entre ambas lecturas: ($L_{sn} - L_n$).

C. Procedimiento para medir el nivel sonoro de una fuente emisora bajo condiciones de un ruido de fondo.

1. Medir el nivel de sonido total (L_{s+n}) con la fuente de ruido funcionando, medido según indicado en este Reglamento.
2. Medir L_{10} del nivel de ruido de fondo (L_n) con la fuente apagada, medido según indicado en este Reglamento.
3. Determinar la diferencia entre ambas lecturas ($L_{s+n} - L_n$).
4. Determinar la diferencia entre los niveles de la fuente y el ruido de fondo (L_s).
5. Realizar la corrección correspondiente, según se describe en el siguiente inciso, y comparar dicho nivel corregido con los límites regulatorios correspondientes, según especificados en este Reglamento, a fin de evaluar el cumplimiento con el mismo.

D. Condiciones para calcular la corrección correspondiente a fin de ajustar el nivel de ruido medido en la presencia de ruido de fondo.

1. Si el L_s es menor de 3 dB, el nivel de ruido de fondo es muy alto para una medición precisa del efecto de la fuente sonora.
2. Si el L_s está entre 3 y 10 dB, será necesaria una corrección al nivel de sonido de la fuente.
3. Si el L_s es mayor de 10 dB, no se requiere una corrección al nivel medido de la fuente de ruido.
4. Si el ruido de fondo es despreciable, se puede registrar directamente el nivel de ruido de dicha fuente (L_s) y determinar si cumple o no con el nivel reglamentario.

E. Corrección cuando el ruido de fondo es inferior al límite establecido en este Reglamento.

Cuando el ruido de fondo es inferior al límite establecido en la Tabla I de este Reglamento, es importante realizar la siguiente corrección, de manera que se incluya el efecto del ruido de fondo:

TABLA III
CORRECCIÓN AL NIVEL DE RUIDO DE FONDO

Nivel de ruido de fondo L_n relativo a L_{JCA}	Nivel total permitido
De 0 hasta 3 dB	$L_{JCA} + 3$ dB
Mayor de 3 hasta 6 dB	$L_{JCA} + 2$ dB
Mayor de 6 hasta 10 dB	$L_{JCA} + 1$ dB
Mayor de 10 dB	$L_{JCA} + 0$ dB

REGLA 38 – CONSIDERACIONES GENERALES SOBRE EL LUGAR DE MEDICIÓN

- A. La medición de nivel sonoro se llevará a cabo en un lugar en que su valor sea más alto y, si fuera preciso, en el momento y situación en que las molestias sean más intensas para los afectados o querellantes.
- B. Las mediciones se tomarán en diferentes puntos en el área exterior del predio receptor, típicamente en las colindancias. En caso de edificios o apartamentos, los balcones y ventanas pueden ser utilizados para estos propósitos. Se utilizarán los valores del nivel sonoro registrados en espacios interiores (habitaciones, pasillos, entre otros), cuando no haya otro espacio adecuado para la realización de la medición.
- C. Los dueños de las fuentes emisoras, ubicadas tanto al aire libre como en establecimientos y locales interiores, facilitarán a los técnicos de la JCA el acceso a sus instalaciones o fuente de emisión de ruidos y pondrán en funcionamiento dichas fuentes emisoras a las distintas velocidades, cargas y marchas que les indique el personal técnico de la JCA. El dueño u operador podrá presenciar el proceso operativo en todos sus detalles.

REGLA 39 – PRECAUCIONES EN LA METODOLOGÍA

A fin de reducir los posibles errores de medición, se adoptarán las siguientes precauciones:

- A. Contra el efecto de pantalla: el técnico se situará en el plano normal (perpendicular) al eje del micrófono y lo más separado del mismo que sea posible, en forma compatible con la lectura del indicador de medida del sonómetro.

- B. Contra el efecto de las reflexiones sonoras: para evitar la influencia de ondas estacionarias o reflejadas, se situará el sonómetro, de ser posible, a más de 1.2 metros (4 pies) de cualquier pared o superficie reflectante. Es importante ilustrar, mediante un dibujo o plano, la colocación del sonómetro con relación a dichas superficies.
- C. Contra el efecto del viento: el técnico, cuando estime que la velocidad del viento es superior a 1.5 metros/segundo (3 mph), empleará una pantalla ("windscreen") contra el viento. Para velocidades superiores a 3 metros/segundos (7 mph), se desistirá de la medición.

REGLA 40 – PROCEDIMIENTO PARA LA REALIZACIÓN DE ESTUDIOS SONOROS

- A. Se realizarán estudios detallados en circunstancias especiales donde se requiera una caracterización exhaustiva de una fuente de ruido con características especiales. Cada estudio será diseñado por personal técnico de la JCA tomando en consideración todos los aspectos reglamentarios.
- B. Cuando existan tonos prominentes o ruidos impulsivos, el nivel máximo permitido quedará medido según

$$L_{JCA} = L_{eq} + K_I + K_T,$$

donde

L_{JCA} es el nivel máximo permitido a la fuente por este Reglamento, excluyendo la influencia del ruido de fondo,

L_{eq} es el nivel equivalente de sonido observado,

K_I es la penalización por ruidos impulsivos ($L_{Im} - L_{eq}$) y en el que L_{Im} es el nivel máximo de presión observado con detección de "impulsos", y

K_T es la penalización por tonos prominentes.

- C. Para la evaluación de ruidos de impulso, se efectuarán mediciones breves de cinco (5) segundos de duración con el sonómetro en el modo de detección de impulsos "I". De este modo, se determinará la diferencia entre el nivel de los impulsos L_{Im} y el valor de L_{eq} correspondiente a dicho intervalo. No se tendrán en cuenta valores de K_I iguales o inferiores a 2dB y la penalización máxima será de 5 dB.

REGLA 41 – MÉTODOS ALTERNOS DE MEDICIÓN

Cualquier persona que solicite autorización para utilizar un método analítico o una prueba alterna a lo establecido en este Reglamento, solicitará y demostrará a satisfacción de la JCA, que el método propuesto es igual o superior al establecido en este Reglamento en términos de precisión, exactitud

y sensibilidad de los procedimientos y equipos utilizados. De igual forma, debe demostrar que el equipo a utilizarse ha sido calibrado y que tal calibración se encuentra vigente.

REGLA 42-43- RESERVADAS

PARTE VII: PLANES DE CUMPLIMIENTO, DISPENSAS Y AUTORIZACIONES DE EMERGENCIA

REGLA 44 – PLANES DE CUMPLIMIENTO

A. Aplicabilidad

Los Planes de Cumplimiento son aplicables a fuentes emisoras o predios originadores de sonido que estén en violación de cualquiera de los requisitos de este Reglamento. La aprobación de los mismos no limita la facultad de la JCA para requerir acciones específicas con relación a tales violaciones. Estos planes no son aplicables a la Parte IV de este Reglamento.

B. Prohibición de operar

Ninguna persona podrá construir, operar o permitir la construcción u operación de una fuente emisora de sonido en violación a cualquier requisito de este Reglamento, a menos que el dueño u operador de la fuente de emisión opere conforme a un Plan de Cumplimiento o Dispensa aprobada por la JCA.

C. Requisitos del Plan de Cumplimiento

El Plan de Cumplimiento será presentado ante la Junta de Gobierno de la JCA y cumplirá con los siguientes requisitos:

1. Deberán ser firmados por el dueño u operador de una fuente emisora de sonido o ruido cuando se haya comenzado una acción para la cual se requiera cumplimiento con los requisitos de este Reglamento.
2. Establecerá acciones de progreso para alcanzar las metas específicas y para la instalación de los controles necesarios mediante la construcción y modificación de su fuente emisora, así como la fecha límite en las que serán alcanzadas estas acciones de progreso.

3. Establecerá fechas límites para alcanzar cumplimiento con cada requisito que esté violando. El tiempo final de cumplimiento para el control de la contaminación por ruido que se requiera para llevar a cabo los objetivos del Plan, será el más corto que pueda lograrse, pero en ningún caso, mayor de noventa (90) días laborables.
4. Notificará, mediante informes periódicos a la JCA, su cumplimiento con las acciones de progreso y las metas específicas.

D. Normas para la aprobación de los Planes de Cumplimiento

1. El solicitante demostrará, a satisfacción de la JCA, que el Plan de Cumplimiento:
 - a. no causará incumplimiento con los requisitos de la Ley sobre Política Pública Ambiental, *supra*;
 - b. establecerá pautas para el cumplimiento final de las metas propuestas tan rápidamente como sea factible;
 - c. establecerá pautas para medir las acciones de progreso y el logro de metas temporales que brindan la protección máxima para la salud humana y el ambiente.
2. La JCA actuará sobre el Plan de Cumplimiento propuesto dentro de un término razonable que no deberá exceder de noventa (90) días laborables.

E. Modificación o revocación de la aprobación de un Plan de Cumplimiento

1. La JCA podrá modificar o revocar un Plan de Cumplimiento previamente aprobado cuando se den las siguientes situaciones:
 - a. cuando sea necesario para la protección de la salud humana y el ambiente;
 - b. cuando exista una condición de emergencia;
 - c. cuando se identifique alguna información que altere el razonamiento seguido en la concesión del Plan de Cumplimiento;
 - d. cuando se proponga un cambio significativo en el el Plan de Cumplimiento aprobado; y

- e. cuando la JCA así lo determine necesario.
2. Si la JCA decide denegar la solicitud de modificación o revocación, enviará por escrito al peticionario una denegatoria exponiendo las razones de su decisión de acuerdo a lo establecido en la Ley de Procedimiento Administrativo Uniforme, *supra*, y la Ley sobre Política Pública Ambiental, *supra*.

REGLA 45- DISPENSAS

A. Autorización para Dispensas

La Junta de Gobierno de la JCA podrá dispensar del estricto cumplimiento de los requisitos establecidos en este Reglamento únicamente mediante el trámite establecido en esta Regla.

B. Solicitud de Dispensa

Toda solicitud de dispensa presentada ante la Junta de Gobierno de la JCA incluirá lo siguiente:

1. una descripción de la Regla para la cual se solicita dispensa, exponiendo claramente la naturaleza y alcance de lo que se propone;
2. una exposición por escrito de las razones para la petición de aprobación de la dispensa, e incluirá una explicación de por qué no será factible el cumplimiento;
3. un estudio acústico de los niveles de ruido en los límites de la propiedad;
4. una expresión del término por el cual estará solicitando la dispensa;
5. evidencia de la implementación de la mejor tecnología disponible en el mercado para el cumplimiento con los límites establecidos en este Reglamento; y
6. cualquier otra información que la JCA determine necesaria para evaluar dicha solicitud.

C. Normas para conceder dispensas

La solicitud de dispensa será aprobada solamente si el solicitante demuestra a satisfacción de la Junta de Gobierno de la JCA que ha cumplido con los siguientes requisitos:

1. que la implementación de la mejor tecnología disponible no es suficiente para cumplir con las disposiciones de este Reglamento;
2. que la dispensa no causará impacto adverso significativo sobre la salud humana o el ambiente; y
3. que existen circunstancias especiales que justifiquen la concesión de la dispensa.

D. Acción sobre la solicitud de Dispensa

1. La Junta de Gobierno de la JCA, *motu proprio* o a solicitud de parte debidamente fundamentada, podrá, discrecionalmente, celebrar una vista administrativa previo al otorgamiento de una dispensa, según los requisitos que para ello se disponen en este Reglamento.
2. La Junta de Gobierno de la JCA notificará por escrito al solicitante de la dispensa o la solicitud de vista, si la misma fue concedida o denegada.
3. En la notificación sobre la dispensa de la que habla el inciso anterior, la Junta de Gobierno de la JCA expondrá las razones que tuvo para la acción tomada.

E. Condiciones para la Concesión de Dispensas

Al conceder una dispensa, la Junta de Gobierno de la JCA podrá imponer las condiciones que considere necesarias para la protección de la salud, seguridad y bienestar público.

F. Periodo de Vigencia

1. Una dispensa se mantendrá en vigor por el periodo de tiempo que determine la Junta de Gobierno de la JCA, el cual no podrá exceder de cuatro (4) años. Para gestionar la renovación o extensión de la misma, el dueño u operador del predio originador de sonido deberá radicar una solicitud a tales efectos con por lo menos noventa (90) días de anticipación a la fecha en que la dispensa original expire.
2. Cualquier solicitud de renovación o extensión deberá ser presentada durante el término concedido. Posterior a esa fecha, el solicitante tendrá que presentar una nueva solicitud de dispensa de conformidad con este Reglamento. Dicha renovación, extensión o nueva dispensa no podrá exceder de doce (12) meses de vigencia.

3. A partir de la fecha en que se radique la solicitud de dispensa, renovación o extensión de una dispensa, la Junta de Gobierno de la JCA deberá actuar sobre la misma, de acuerdo a las reglas y reglamentos vigentes.

REGLA 46 – AVISOS PÚBLICOS Y VISTAS PÚBLICAS PARA EL TRÁMITE DE LAS DISPENSAS

A. Avisos Públicos

1. Todo aviso público relacionado con un asunto pendiente ante la JCA bajo este Reglamento, especificará la fecha, hora y lugar donde los documentos estarán disponibles para inspección pública. Estos documentos incluirán cualquier determinación preliminar de la JCA.
2. Todo aviso público indicará el período de tiempo durante el que las personas interesadas podrán someter comentarios escritos o solicitar, de forma fundamentada, vistas públicas. El aviso especificará la fecha, hora y el lugar de cada vista pública, así como horario de duración de la vista y término de espera para declararla desierta de no comparecer público.
3. Todo aviso público será publicado por lo menos treinta (30) días antes de que la JCA tome cualquier determinación final con respecto a cualquier asunto pendiente ante su consideración, a menos que por una situación de emergencia la JCA determine que, en el mejor interés público, sea necesario que se haga una determinación final en un período de tiempo más corto.
4. El aviso público podrá publicarse en un (1) periódico de circulación general en Puerto Rico o por cualquier otro método que disponga la Junta de Gobierno de la JCA. En los casos en que los avisos públicos sean para considerar una solicitud de dispensa y/o autorización ante la JCA, el solicitante de la misma sufragará cualquier costo relacionado a su publicación, previo a que sea publicado.
5. La JCA podrá publicar avisos adicionales o avisos de cualquier otra índole en la forma que considere apropiada.

B. Vistas Públicas

1. La JCA podrá celebrar, a su discreción, una vista pública sobre el otorgamiento de una dispensa o cualquier otro asunto pendiente ante ella, mediante solicitud debidamente fundamentada por cualquier persona interesada o cuando la JCA determine que la celebración de

una vista pública ayudará a evaluar la situación ante su consideración. La JCA no celebrará vistas públicas sin publicar un aviso notificando la celebración de la misma. Para determinar si se concede la celebración de vistas públicas, la Junta de Gobierno de la JCA tomará en consideración los siguientes factores:

- a. la magnitud y naturaleza de la solicitud y la cuantía de la inversión necesaria;
 - b. el grado de interés de parte del público en la acción a llevarse a cabo; y
 - c. el grado de interés de parte de la JCA y de otras agencias gubernamentales en la acción a llevarse a cabo, entre otros factores relevantes.
2. La Junta de Gobierno de la JCA podrá presidir la vista pública por sí o a través de un panel examinador.
 3. La vista pública deberá iniciarse a la hora indicada en el aviso público y de no haber presente ninguna persona interesada en deponer en la misma, ésta podrá darse por culminada luego de una (1) hora de la hora indicada en el aviso público. El horario de duración de la vista estará incluido en el aviso público.
 4. El registro de deponentes de la vista pública estará disponible para inspección del público en general.

C. Los comentarios recibidos

Todos los comentarios recibidos durante el periodo de participación pública serán evaluados por la JCA al momento de tomar una determinación final sobre el asunto en cuestión, según la Ley sobre Política Pública Ambiental, *supra*, y Ley de Procedimiento Administrativo Uniforme, *supra*.

D. Decisión final

Luego de celebrada una vista pública, la Junta de Gobierno de la JCA preparará una resolución que detalle su decisión final. Esta resolución deberá cumplir con los requisitos de notificación, según dispuestos en la Ley sobre Política Pública Ambiental, *supra*, y Ley de Procedimiento Administrativo Uniforme, *supra*, así como en cualquier otra legislación aplicable.

REGLA 47 – REVOCACIÓN DE PLAN DE CUMPLIMIENTO, DISPENSAS O AUTORIZACIONES

La JCA podrá decretar el cese de operaciones o revocar un Plan de Cumplimiento o dispensa que haya sido encontrado en violación de este Reglamento o de las condiciones del mismo, de acuerdo a la Ley sobre Política Pública Ambiental, *supra*, la Ley de Procedimiento Administrativo Uniforme, *supra*, y el Reglamento de Procedimiento de Vistas Administrativas, *supra*. La Orden de Cese será efectiva hasta tanto la fuente emisora se encuentre en cumplimiento con este Reglamento y así lo disponga la JCA mediante Resolución al respecto en la que ordene el dejar sin efecto dicha Orden o así lo ordene un tribunal con jurisdicción y competencia.

REGLA 48 – AUTORIZACIÓN DE EMERGENCIA

A. Autorización en caso de emergencia

1. Si la Junta de Gobierno de la JCA encuentra que existe un peligro significativo e inminente para la salud humana o el ambiente, podrá expedir una autorización de emergencia para personas o fuentes emisoras no autorizadas.
2. Estas autorizaciones podrán incluir dispensas a reglas específicas de este Reglamento, según se establece en la Regla sobre dispensas.

B. Disposiciones para autorizaciones de emergencias

Las autorizaciones para casos de emergencias cumplirán con los siguientes requisitos:

1. Según las circunstancias, éstas podrán ser verbales o escritas. Si la autorización es verbal, inmediatamente deberá producirse una autorización escrita, la cual se expedirá dentro de un término de cinco (5) días después de concedida la autorización verbal.
2. No tendrán una duración mayor de noventa (90) días.
3. Especificarán claramente la fuente emisora.
4. Incorporarán, hasta el máximo factible que no sea inconsistente con la situación de emergencia, todos los requisitos de este Reglamento.
5. Podrán ser revocadas por la Junta de Gobierno de la JCA en cualquier momento, si se determina que dicha revocación es necesaria para

proteger la salud humana o el ambiente.

GOBIERNO DE PUERTO RICO
OFICINA DEL GOBERNADOR
JUNTA DE CALIDAD AMBIENTAL

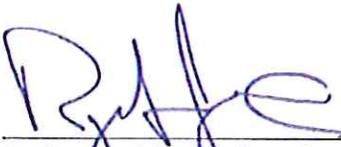
A tenor y de acuerdo con la Ley sobre Política Pública Ambiental, Ley Núm. 416 de 22 de septiembre de 2004, según enmendada, ha sido enmendado por la **Resolución R-11-7-1** de la Junta de Gobierno de la Junta de Calidad Ambiental el

REGLAMENTO PARA EL CONTROL DE LA CONTAMINACIÓN POR RUIDOS

Estas enmiendas al Reglamento establecen las normas y requisitos para el control, disminución o eliminación de ruidos que puedan resultar nocivos a la salud y perturbar el bienestar público. Establece, además, los requisitos para los niveles de emisiones de ruido entre zonas, así como la administración y procedimientos relacionados con la valoración de los niveles sonoros.

Aprobado: 5 de mayo de 2011

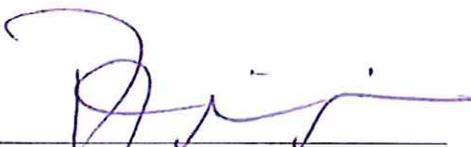
En virtud de la Sección 2.8 de la Ley Núm. 170 de 12 de agosto de 1988, según enmendada, conocida como Ley de Procedimiento Administrativo Uniforme, (3 L.P.R.A sección 2128), este Reglamento entra en vigencia a los treinta (30) días a partir de su radicación en el Departamento de Estado,



Sr. Reynaldo Matos Jiménez
Miembro Asociado



Lda. Blanche Gonzalez Hodge
Miembro Asociado



Lcdo. Pedro J. Nieves Miranda
Presidente

ELECTRONIC CODE OF FEDERAL REGULATIONS**e-CFR Data is current as of February 10, 2014**Title 24: Housing and Urban Development

PART 51—ENVIRONMENTAL CRITERIA AND STANDARDS

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- §51.300 Purpose.
 - §51.301 Definitions.
 - §51.302 Coverage.
 - §51.303 General policy.
 - §51.304 Responsibilities.
 - §51.305 Implementation.
-

AUTHORITY: 42 U.S.C. 3535(d), unless otherwise noted.

SOURCE: 44 FR 40861, July 12, 1979, unless otherwise noted.

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Subpart A—General Provisions

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§51.1 Purpose.

The Department of Housing and Urban Development is providing program Assistant Secretaries and administrators and field offices with environmental standards, criteria and guidelines for determining project acceptability and necessary mitigating measures to insure that activities assisted by the Department achieve the goal of a suitable living environment.

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§51.2 Authority.

This part implements the Department's responsibilities under: The National Housing Act (12 U.S.C. 1701 *et seq.*); sec. 2 of the Housing Act of 1949 (42 U.S.C. 1441); secs. 2 and 7(d) of the Department of Housing and Urban Development Act (42 U.S.C. 3531 and 3535(d)); the National Environmental Policy Act of 1969 (42 U.S.C. 4321); and the other statutes that are referred to in this part.

[61 FR 13333, Mar. 26, 1996]

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§51.3 Responsibilities.

The Assistant Secretary for Community Planning and Development is responsible for administering HUD's environmental criteria and standards as set forth in this part. The Assistant Secretary for Community Planning and Development may be assisted by HUD officials in implementing the responsibilities established by this part. HUD will identify these HUD officials and their specific responsibilities through FEDERAL REGISTER notice.

[61 FR 13333, Mar. 26, 1996]

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§51.4 Program coverage.

Environmental standards shall apply to all HUD actions except where special provisions and exemptions are contained in each subpart.

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Subpart B—Noise Abatement and Control

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§51.100 Purpose and authority.

(a) It is the purpose of this subpart B to:

(1) Call attention to the threat of noise pollution;

(2) Encourage the control of noise at its source in cooperation with other Federal departments and agencies;

(3) Encourage land use patterns for housing and other noise sensitive urban needs that will provide a suitable separation between them and major noise sources;

(4) Generally prohibit HUD support for new construction of noise sensitive uses on sites having unacceptable noise exposure;

(5) Provide policy on the use of structural and other noise attenuation measures where needed; and

(6) Provide policy to guide implementation of various HUD programs.

(b) *Authority.* Specific authorities for noise abatement and control are contained in the Noise Control Act of 1972, as amended (42 U.S.C. 4901 *et seq.*); and the General Services Administration, Federal Management Circular 75-2; *Compatible Land Uses at Federal Airfields.*

[44 FR 40861, July 12, 1979, as amended at 61 FR 13333, Mar. 26, 1996]

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§51.101 General policy.

(a) It is HUD's general policy to provide minimum national standards applicable to HUD programs to protect citizens against excessive noise in their communities and places of residence.

(1) *Planning assistance.* HUD requires that grantees give adequate consideration to noise exposures and sources of noise as an integral part of the urban environment when HUD assistance is provided for planning purposes, as follows:

(i) Particular emphasis shall be placed on the importance of compatible land use planning in relation to airports, highways and other sources of high noise.

(ii) Applicants shall take into consideration HUD environmental standards impacting the use of land.

(2) *Activities subject to 24 CFR part 58.* (i) Responsible entities under 24 CFR part 58 must take into consideration the noise criteria and standards in the environmental review process and consider ameliorative actions when noise sensitive land development is proposed in noise exposed areas. Responsible entities shall address deviations from the standards in their environmental reviews as required in 24 CFR part 58.

(ii) Where activities are planned in a noisy area, and HUD assistance is contemplated later for housing and/or other noise sensitive activities, the responsible entity risks denial of the HUD assistance unless the HUD standards are met.

(3) *HUD support for new construction.* HUD assistance for the construction of new noise sensitive uses is prohibited generally for projects with unacceptable noise exposures and is discouraged for projects with normally unacceptable noise exposure. (Standards of acceptability are contained in §51.103(c).) This policy applies to all HUD programs providing assistance, subsidy or insurance for housing, manufactured home parks, nursing homes, hospitals, and all programs providing assistance or insurance for land development, redevelopment or any other provision of facilities and services which are directed to making land available for housing or noise sensitive development. The policy does not apply to research demonstration projects which do not result in new construction or reconstruction, flood insurance, interstate land sales registration, or any action or emergency assistance under disaster assistance provisions or appropriations which are provided to save lives, protect property, protect public health and safety, remove debris and wreckage, or assistance that has the effect of restoring facilities substantially as they existed prior to the disaster.

(4) *HUD support for existing construction.* Noise exposure by itself will not result in the denial of HUD support for the resale and purchase of otherwise acceptable existing buildings. However, environmental noise is a marketability factor which HUD will consider in determining the amount of insurance or other assistance that may be given.

(5) *HUD support of modernization and rehabilitation.* For modernization projects located in all noise exposed areas, HUD shall encourage noise attenuation features in alterations. For major or substantial rehabilitation projects in the Normally Unacceptable and Unacceptable noise zones, HUD actively shall seek to have project sponsors incorporate noise attenuation features, given the extent and nature of the rehabilitation being undertaken and the level or exterior noise exposure. In Unacceptable noise zones, HUD shall strongly encourage conversion of noise-exposed sites to land uses compatible with the high noise levels.

(6) *Research, guidance and publications.* HUD shall maintain a continuing program designed to provide new knowledge of noise abatement and control to public and private bodies, to develop improved methods for anticipating noise encroachment, to develop noise abatement measures through land use and building construction practices, and to foster better understanding of the consequences of noise. It shall be HUD's policy to issue guidance documents periodically to assist HUD personnel in assigning an acceptability category to projects in accordance with noise exposure standards, in evaluating noise attenuation measures, and in advising local agencies about noise abatement strategies. The guidance documents shall be updated periodically in accordance with advances in the state-of-the-art.

(7) *Construction equipment, building equipment and appliances.* HUD shall encourage the use of quieter construction equipment and methods in population centers, the use of quieter equipment and appliances in buildings, and the use of appropriate noise abatement techniques in the design of residential structures with potential noise problems.

(8) *Exterior noise goals.* It is a HUD goal that exterior noise levels do not exceed a day-night average sound level of 55 decibels. This level is recommended by the Environmental Protection Agency as a goal for outdoors in residential areas. The levels recommended by EPA are not standards and do not take into account cost or feasibility. For the purposes of this regulation and to meet other program objectives, sites with a day-night average sound level of 65 and below are acceptable and are allowable (see Standards in §51.103(c)).

(9) *Interior noise goals.* It is a HUD goal that the interior auditory environment shall not exceed a day-night average sound level of 45 decibels. Attenuation measures to meet these interior goals shall be employed where feasible. Emphasis shall be given to noise sensitive interior spaces such as bedrooms. Minimum attenuation requirements are prescribed in §51.104(a).

(10) *Acoustical privacy in multifamily buildings.* HUD shall require the use of building design and acoustical treatment to afford acoustical privacy in multifamily buildings pursuant to requirements of the Minimum Property Standards.

[44 FR 40861, July 12, 1979, as amended at 50 FR 9268, Mar. 7, 1985; 61 FR 13333, Mar. 26, 1996]

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§51.102 Responsibilities.

(a) *Surveillance of noise problem areas.* Appropriate field staff shall maintain surveillance of potential noise problem areas and advise local officials, developers, and planning groups of the unacceptability of sites because of noise exposure at the earliest possible time in the decision process. Every attempt shall be made to insure that applicants' site choices are consistent with the policy and standards contained herein.

(b) *Notice to applicants.* At the earliest possible stage, HUD program staff shall:

(1) Determine the suitability of the acoustical environment of proposed projects;

(2) Notify applicants of any adverse or questionable situations; and

(3) Assure that prospective applicants are apprised of the standards contained herein so that future site choices will be consistent with these standards.

(c) *Interdepartmental coordination.* HUD shall foster appropriate coordination between field offices and other departments and agencies, particularly the Environmental Protection Agency, the Department of Transportation, Department of Defense representatives, and the Department of Veterans Affairs. HUD staff shall utilize the acceptability standards in commenting on the prospective impacts of transportation facilities and other noise generators in the Environmental Impact Statement review process.

[44 FR 40861, July 12, 1979, as amended at 54 FR 39525, Sept. 27, 1989; 61 FR 13333, Mar. 26, 1996]

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§51.103 Criteria and standards.

These standards apply to all programs as indicated in §51.101.

(a) *Measure of external noise environments.* The magnitude of the external noise environment at a site is determined by the value of the day-night average sound level produced as the result of the accumulation of noise from all sources contributing to the external noise environment at the site. Day-night average sound level, abbreviated as DNL and symbolized as L_{dn} , is the 24-hour average sound level, in decibels, obtained after addition of 10 decibels to sound levels in the night from 10 p.m. to 7 a.m. Mathematical expressions for average sound level and day-night average sound level are stated in the Appendix I to this subpart.

(b) *Loud impulsive sounds.* On an interim basis, when loud impulsive sounds, such as explosions or sonic booms, are experienced at a site, the day-night average sound level produced by the loud impulsive sounds alone shall have 8 decibels added to it in assessing the acceptability of the site (see appendix I to this subpart). Alternatively, the C-weighted day-night average sound level (L_{Cdn}) may be used without the 8 decibel addition, as indicated in §51.106(a)(3). Methods for assessing the contribution of loud impulsive sounds to day-night average sound level at a site and mathematical expressions for determining whether a sound is classed as "loud impulsive" are provided in the appendix I to this subpart.

(c) *Exterior standards.* (1) The degree of acceptability of the noise environment at a site is determined by the sound levels external to buildings or other facilities containing noise sensitive uses. The standards shall usually apply at a location 2 meters (6.5 feet) from the building housing noise sensitive activities in the direction of the predominant noise source. Where the building location is undetermined, the standards shall apply 2 meters (6.5 feet) from the building setback line nearest to the predominant noise source. The standards shall also apply at other locations where it is determined that quiet outdoor space is required in an area ancillary to the principal use on the site.

(2) The noise environment inside a building is considered acceptable if: (i) The noise environment external to the building complies with these standards, and (ii) the building is constructed in a manner common to the area or, if of uncommon construction, has at least the equivalent noise attenuation characteristics.

SITE ACCEPTABILITY STANDARDS

	Day-night average sound level (in decibels)	Special approvals and requirements
Acceptable	Not exceeding 65 dB(1)	None.
Normally Unacceptable	Above 65 dB but not exceeding 75 dB	Special Approvals (2)
		Environmental Review (3).

		Attenuation (4).
Unacceptable	Above 75 dB	Special Approvals (2).
		Environmental Review (3).
		Attenuation (5).

Notes: (1) Acceptable threshold may be shifted to 70 dB in special circumstances pursuant to §51.105(a).

(2) See §51.104(b) for requirements.

(3) See §51.104(b) for requirements.

(4) 5 dB additional attenuation required for sites above 65 dB but not exceeding 70 dB and 10 dB additional attenuation required for sites above 70 dB but not exceeding 75 dB. (See §51.104(a).)

(5) Attenuation measures to be submitted to the Assistant Secretary for CPD for approval on a case-by-case basis.

[44 FR 40861, July 12, 1979, as amended at 49 FR 12214, Mar. 29, 1984]

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§51.104 Special requirements.

(a)(1) *Noise attenuation.* Noise attenuation measures are those required in addition to attenuation provided by buildings as commonly constructed in the area, and requiring open windows for ventilation. Measures that reduce external noise at a site shall be used wherever practicable in preference to the incorporation of additional noise attenuation in buildings. Building designs and construction techniques that provide more noise attenuation than typical construction may be employed also to meet the noise attenuation requirements.

(2) *Normally unacceptable noise zones and unacceptable noise zones.* Approvals in Normally Unacceptable Noise Zones require a minimum of 5 decibels additional sound attenuation for buildings having noise-sensitive uses if the day-night average sound level is greater than 65 decibels but does not exceed 70 decibels, or a minimum of 10 decibels of additional sound attenuation if the day-night average sound level is greater than 70 decibels but does not exceed 75 decibels. Noise attenuation measures in Unacceptable Noise Zones require the approval of the Assistant Secretary for Community Planning and Development, or the Certifying Officer for activities subject to 24 CFR part 58. (See §51.104(b)(2).)

(b) *Environmental review requirements.* Environmental reviews shall be conducted pursuant to the requirements of 24 CFR parts 50 and 58, as applicable, or other environmental regulations issued by the Department. These requirements are hereby modified for all projects proposed in the Normally Unacceptable and Unacceptable noise exposure zones as follows:

(1) *Normally unacceptable noise zone.* (i) All projects located in the Normally Unacceptable Noise Zone require a Special Environmental Clearance except an EIS is required for a proposed project located in a largely undeveloped area, or where the HUD action is likely to encourage the establishment of incompatible land use in this noise zone.

(ii) When an EIS is required, the concurrence of the Program Assistant Secretary is also required before a project can be approved. For the purposes of this paragraph, an area will be considered as largely undeveloped unless the area within a 2-mile radius of the project boundary is more than 50 percent developed for urban uses and infrastructure (particularly water and sewers) is available and has capacity to serve the project.

(iii) All other projects in the Normally Unacceptable zone require a Special Environmental Clearance, except where an EIS is required for other reasons pursuant to HUD environmental policies.

(2) *Unacceptable noise zone.* An EIS is required prior to the approval of projects with unacceptable noise exposure. Projects in or partially in an Unacceptable Noise Zone shall be submitted to the Assistant Secretary for Community Planning and Development, or the Certifying Officer for activities subject to 24 CFR part 58, for approval. The Assistant Secretary or the Certifying Officer may waive the EIS requirement in cases where noise is the only environmental issue and no outdoor noise sensitive activity will take place on the site. In such cases, an environmental review shall be made pursuant to the requirements of 24 CFR parts 50 or 58, as appropriate.

[44 FR 40861, July 12, 1979, as amended at 61 FR 13333, Mar. 26, 1996]

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§51.105 Exceptions.

(a) *Flexibility for non-acoustic benefits.* Where it is determined that program objectives cannot be achieved on sites meeting the acceptability standard of 65 decibels, the Acceptable Zone may be shifted to L_{dn} 70 on a case-by-case basis if all the following conditions are satisfied:

(1) The project does not require an Environmental Impact Statement under provisions of §51.104 (b)(1) and noise is the only environmental issue.

(2) The project has received a Special Environmental Clearance and has received the concurrence of the Environmental Clearance Officer.

(3) The project meets other program goals to provide housing in proximity to employment, public facilities and transportation.

(4) The project is in conformance with local goals and maintains the character of the neighborhood.

(5) The project sponsor has set forth reasons, acceptable to HUD, as to why the noise attenuation measures that would normally be required for new construction in the L_{dn} 65 to L_{dn} 70 zone cannot be met.

(6) Other sites which are not exposed to noise above L_{dn} 65 and which meet program objectives are generally not available.

The above factors shall be documented and made part of the project file.

[44 FR 40861, July 12, 1979, as amended at 61 FR 13334, Mar. 26, 1996]

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§51.106 Implementation.

(a) *Use of available data.* HUD field staff shall make maximum use of noise data prepared by others when such data are determined to be current and adequately projected into the future and are in terms of the following:

(1) *Sites in the vicinity of airports.* The noise environment around airports is described sometimes in terms of Noise Exposure Forecasts, abbreviated as NEF or, in the State of California, as Community Noise Equivalent Level, abbreviated as CNEL. The noise environment for sites in the vicinity of airports for which day-night average sound level data are not available may be evaluated from NEF or CNEL analyses using the following conversions to DNL:

$DNL \approx NEF + 35$

$DNL \approx CNEL$

(2) *Sites in the vicinity of highways.* Highway projects receiving Federal aid are subject to noise analyses under the procedures of the Federal Highway Administration. Where such analyses are available they may be used to assess sites subject to the requirements of this standard. The Federal Highway Administration employs two alternate sound level descriptors: (i) The A-weighted sound level not exceeded more than 10 percent of the time for the highway design hour traffic flow, symbolized as L_{10} ; or (ii) the equivalent sound level for the design hour, symbolized as L_{eq} . The day-night average sound level may be estimated from the design hour L_{10} or L_{eq} values by the following relationships, provided heavy trucks do not exceed 10 percent of the total traffic flow in vehicles per 24 hours and the traffic flow between 10 p.m. and 7 a.m. does not exceed 15 percent of the average daily traffic flow in vehicles per 24 hours:

$DNL \approx L_{10}$ (design hour) — 3 decibels

$DNL \approx L_{eq}$ (design hour) decibels

Where the auto/truck mix and time of day relationships as stated in this section do not exist, the HUD Noise Assessment Guidelines or other noise analysis shall be used.

(3) *Sites in the vicinity of installations producing loud impulsive sounds.* Certain Department of Defense installations produce loud impulsive sounds from artillery firing and bombing practice ranges. Noise analyses for these facilities sometimes encompass sites that may be subject to the requirements of this standard. Where such analyses are available they may be used on an interim basis to establish the acceptability of sites under this standard. The Department of Defense uses day-night average sound level based on C-weighted sound level, symbolized L_{Cdn} , for the analysis of loud impulsive sounds. Where such analyses are provided, the 8 decibel addition specified in §51.103(b), is not required, and the same numerical values of day-night average sound level used on an interim basis to determine site suitability for non-impulsive sounds apply to the L_{Cdn} .

(4) *Use of areawide acoustical data.* HUD encourages the preparation and use of areawide acoustical information, such as noise contours for airports. Where such new or revised contours become available for airports (civil or military) and military installations they shall first be referred to the HUD State Office (Environmental Officer) for review, evaluation and decision on appropriateness for use by HUD. The HUD State Office shall submit revised contours to the Assistant Secretary for Community Planning and Development for review, evaluation and decision whenever the area affected is changed by 20 percent or more, or whenever it is determined that the new contours will have a significant effect on HUD programs, or whenever the contours are not provided in a methodology acceptable under §51.106(a)(1) or in other cases where the HUD State Office determines that Headquarters review is warranted. For other areawide acoustical data, review is required only where existing areawide data are being utilized and where such data have been changed to reflect changes in the measurement methodology or underlying noise source assumptions. Requests for determination on usage of new or revised areawide data shall include the following:

(i) Maps showing old, if applicable, and new noise contours, along with brief description of data source and methodology.

(ii) Impact on existing and prospective urbanized areas and on development activity.

(iii) Impact on HUD-assisted projects currently in processing.

(iv) Impact on future HUD program activity. Where a field office has determined that immediate approval of new areawide data is necessary and warranted in limited geographic areas, the request for approval should state the circumstances warranting such approval. Actions on proposed projects shall not be undertaken while new areawide noise data are being considered for HUD use except where the proposed location is affected in the same manner under both the old and new noise data.

(b) *Site assessments.* Compliance with the standards contained in §51.103(c) shall, where necessary, be determined using noise assessment guidelines, handbooks, technical documents and procedures issued by the Department.

(c) *Variations in site noise levels.* In many instances the noise environment will vary across a site, with portions of the site being in an Acceptable noise environment and other portions in a Normally Unacceptable noise environment. The standards in §51.103(c) shall apply to the portions of a building or buildings used for residential purposes and for ancillary noise sensitive open spaces.

(d) *Noise measurements.* Where noise assessments result in a finding that the site is borderline or questionable, or is controversial, noise measurements may be performed. Where it is determined that noise measurements are required, such measurements will be conducted in accordance with methods and measurement criteria established by the Department. Locations for noise measurements will depend on the location of noise sensitive uses that are nearest to the predominant noise source (see §51.103(c)).

(e) *Projections of noise exposure.* In addition to assessing existing exposure, future conditions should be projected. To the extent possible, noise exposure shall be projected to be representative of conditions that are expected to exist at a time at least 10 years beyond the date of the project or action under review.

(f) *Reduction of site noise by use of berms and/or barriers.* If it is determined by adequate analysis that a berm and/or barrier will reduce noise at a housing site, and if the barrier is existing or there are assurances that it will be in place prior to occupancy, the environmental noise analysis for the site may reflect the benefits afforded by the berm and/or barrier. In the environmental review process under §51.104(b), the location height and design of the berm and/or barrier shall be evaluated to determine its effectiveness, and impact on design and aesthetic quality, circulation and other environmental factors.

[44 FR 40861, July 12, 1979, as amended at 61 FR 13334, Mar. 26, 1996]

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Appendix I to Subpart B of Part 51 — Definition of Acoustical Quantities

1. *Sound Level.* The quantity in decibels measured with an instrument satisfying requirements of American National Standard Specification for Type 1 Sound Level Meters S1.4-1971. Fast time-averaging and A-frequency weighting are to be used, unless others are specified. The sound level meter with the A-weighting is progressively less sensitive to sounds of frequency below 1,000 hertz (cycles per second), somewhat as is the ear. With fast time averaging the sound level meter responds particularly to recent sounds almost as quickly as does the ear in judging the loudness of a sound.

2. *Average Sound Level.* Average sound level, in decibels, is the level of the mean-square A-weighted sound pressure during the stated time period, with reference to the square of the standard reference sound pressure of 20 micropascals.

Day-night average sound level, abbreviated as DNL, and symbolized mathematically as L_{dn} is defined as:

$$L_{dn} = 10 \log_{10} \left[\frac{1}{86400} \left(\int_{0000}^{2400} \frac{[L_A(t)+10]/10}{10} dt + \int_{0000}^{0800} \frac{L_A(t)/10}{10} dt + \int_{0800}^{1600} \frac{[L_A(t)+10]/10}{10} dt \right) \right]$$

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Time t is in seconds, so the limits shown in hours and minutes are actually interpreted in seconds. $L_A(t)$ is the time varying value of A-weighted sound level, the quantity in decibels measured by an instrument satisfying requirements of American National Standard Specification for Type 1 Sound Level Meters S1.4-1971.

3. *Loud Impulsive Sounds.* When loud impulsive sounds such as sonic booms or explosions are anticipated contributors to the noise environment at a site, the contribution to day-night average sound level produced by the loud impulsive sounds shall have 8 decibels added to it in assessing the acceptability of a site.

A loud impulsive sound is defined for the purpose of this regulation as one for which:

(i) The sound is definable as a discrete event wherein the sound level increases to a maximum and then decreases in a total time interval of approximately one second or less to the ambient background level that exists without the sound; and

(ii) The maximum sound level (obtained with slow averaging time and A-weighting of a Type 1 sound level meter whose characteristics comply with ANSI S1.4-1971) exceeds the sound level prior to the onset of the event by at least 6 decibels; and

(iii) The maximum sound level obtained with fast averaging time of a sound level meter exceeds the maximum value obtained with slow averaging time by at least 4 decibels.

[44 FR 40861, July 12, 1979; 49 FR 10253, Mar. 20, 1984; 49 FR 12214, Mar. 29, 1984]

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Subpart C—Siting of HUD-Assisted Projects Near Hazardous Operations Handling Conventional Fuels or Chemicals of an Explosive or Flammable Nature

AUTHORITY: 42 U.S.C. 3535(d).

SOURCE: 49 FR 5103, Feb. 10, 1984, unless otherwise noted.

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§51.200 Purpose.

The purpose of this subpart C is to:

(a) Establish safety standards which can be used as a basis for calculating acceptable separation distances (ASD) for HUD-assisted projects from specific, stationary, hazardous operations which store, handle, or process hazardous substances;

(b) Alert those responsible for the siting of HUD-assisted projects to the inherent potential dangers when such projects are located in the vicinity of such hazardous operations;

(c) Provide guidance for identifying those hazardous operations which are most prevalent;

(d) Provide the technical guidance required to evaluate the degree of danger anticipated from explosion and thermal radiation (fire); and

(e) Provide technical guidance required to determine acceptable separation distances from such hazards.

[49 FR 5103, Feb. 10, 1984, as amended at 61 FR 13334, Mar. 26, 1996]

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§51.201 Definitions.

The terms *Department* and *Secretary* are defined in 24 CFR part 5.

Acceptable separation distance (ASD)—means the distance beyond which the explosion or combustion of a hazard is not likely to cause structures or individuals to be subjected to blast overpressure or thermal radiation flux levels in excess of the safety standards in §51.203. The ASD is determined by applying the safety standards established by this subpart C to the guidance set forth in HUD Guidebook, "Siting of HUD-Assisted Projects Near Hazardous Facilities."

Blast overpressure—means the pressure, in pounds per square inch, in excess of normal atmospheric pressure on the surrounding medium caused by an explosion.

Danger zone—means the land area circumscribed by the radius which delineates the ASD of a given hazard.

Hazard—means any stationary container which stores, handles or processes hazardous substances of an explosive or fire prone nature. The term “hazard” does not include pipelines for the transmission of hazardous substances, if such pipelines are located underground or comply with applicable Federal, State and local safety standards. Also excepted are: (1) Containers with a capacity of 100 gallons or less when they contain common liquid industrial fuels, such as gasoline, fuel oil, kerosene and crude oil since they generally would pose no danger in terms of thermal radiation of blast overpressure to a project; and (2) facilities which are shielded from a proposed HUD-assisted project by the topography, because these topographic features effectively provide a mitigating measure already in place.

Hazardous substances—means petroleum products (petrochemicals) and chemicals that can produce blast overpressure or thermal radiation levels in excess of the standards set forth in §51.203. A specific list of hazardous substance is found in appendix I to this subpart.

HUD-assisted project—the development, construction, rehabilitation, modernization or conversion with HUD subsidy, grant assistance, loan, loan guarantee, or mortgage insurance, of any project which is intended for residential, institutional, recreational, commercial or industrial use. For purposes of this subpart the terms “rehabilitation” and “modernization” refer only to such repairs and renovation of a building or buildings as will result in an increased number of people being exposed to hazardous operations by increasing residential densities, converting the type of use of a building to habitation, or making a vacant building habitable.

Thermal radiation level—means the emission and propagation of heat energy through space or a material medium, expressed in BTU per square foot per hour (BTU/ft.² hr.).

[49 FR 5103, Feb. 10, 1984, as amended at 61 FR 5204, Feb. 9, 1996; 61 FR 13334, Mar. 26, 1996]

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§51.202 Approval of HUD-assisted projects.

(a) The Department will not approve an application for assistance for a proposed project located at less than the acceptable separation distance from a hazard, as defined in §51.201, unless appropriate mitigating measures, as defined in §51.205, are implemented, or unless mitigating measures are already in place.

(b) In the case of all applications for proposed HUD-assisted projects, the Department shall evaluate projected development plans in the vicinity of these projects to determine whether there are plans to install a hazardous operation in close proximity to the proposed project. If the evaluation shows that such a plan exists, the Department shall not approve assistance for the project unless the Department obtains satisfactory assurances that adequate mitigating measures will be taken when the hazardous operation is installed.

[49 FR 5103, Feb. 10, 1984, as amended at 61 FR 13334, Mar. 26, 1996]

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§51.203 Safety standards.

The following standards shall be used in determining the acceptable separation distance of a proposed HUD-assisted project from a hazard:

(a) *Thermal Radiation Safety Standard.* Projects shall be located so that:

(1) The allowable thermal radiation flux level at the building shall not exceed 10,000 BTU/sq. ft. per hr.;

(2) The allowable thermal radiation flux level for outdoor, unprotected facilities or areas of congregation shall not exceed 450 BTU/sq. ft. per hour.

(b) *Blast Overpressure Safety Standard.* Projects shall be located so that the maximum allowable blast overpressure at both buildings and outdoor, unprotected facilities or areas shall not exceed 0.5 psi.

(c) If a hazardous substance constitutes both a thermal radiation and blast overpressure hazard, the ASD for each hazard shall be calculated, and the larger of the two ASDs shall be used to determine compliance with this subpart.

(d) Background information on the standards and the logarithmic thermal radiation and blast overpressure charts that provide assistance in determining acceptable separation distances are contained in appendix II to this subpart C.

[49 FR 5103, Feb. 10, 1984, as amended at 61 FR 13334, Mar. 26, 1996]

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§51.204 HUD-assisted hazardous facilities.

In reviewing applications for proposed HUD-assisted projects involving the installation of hazardous facilities, the Department shall ensure that such hazardous facilities are located at an acceptable separation distance from residences and from any other facility or area where people may congregate or be present. The mitigating measures listed in §51.205 may be taken into account in determining compliance with this section.

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§51.205 Mitigating measures.

Application of the standards for determining an Acceptable Separation Distance (ASD) for a HUD-assisted project from a potential hazard of an explosion or fire prone nature is predicated on level topography with no intervening object(s) between the hazard and the project. Application of the standards can be eliminated or modified if:

(a) The nature of the topography shields the proposed project from the hazard.

(b) An existing permanent fire resistant structure of adequate size and strength will shield the proposed project from the hazard.

(c) A barrier is constructed surrounding the hazard, at the site of the project, or in between the potential hazard and the proposed project.

(d) The structure and outdoor areas used by people are designed to withstand blast overpressure and thermal radiation anticipated from the potential hazard (e.g., the project is of masonry and steel or reinforced concrete and steel construction).

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§51.206 Implementation.

This subpart C shall be implemented for each proposed HUD-assisted project by the HUD approving official or responsible entity responsible for review of the project. The implementation procedure will be part of the environmental review process in accordance with the procedures set forth in 24 CFR parts 50 and 58.

[61 FR 13334, Mar. 26, 1996]

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§51.207 Special circumstances.

The Secretary or the Secretary's designee may, on a case-by-case basis, when circumstances warrant, require the application of this subpart C with respect to a substance not listed in appendix I to this subpart C that would create thermal or overpressure effect in excess of that listed in §51.203.

[61 FR 13334, Mar. 26, 1996]

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§51.208 Reservation of administrative and legal rights.

Publication of these standards does not constitute a waiver of any right: (a) Of HUD to disapprove a project proposal if the siting is too close to a potential hazard not covered by this subpart, and (b) of HUD or any person or other entity to seek to abate or to collect damages occasioned by a nuisance, whether or not covered by the subpart.

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Appendix I to Subpart C of Part 51—Specific Hazardous Substances

The following is a list of specific petroleum products and chemicals defined to be hazardous substances under §51.201.

HAZARDOUS LIQUIDS

Acetic Acid	Ethyl Benzene
Acetic Anhydride	Ethyl Dichloride
Acetone	Ethyl Ether
Acrylonitrile	Gasoline
Amyl Acetate	Heptane
Amyl Alcohol	Hexane
Benzene	Isobutyl Acetate
Butyl Acetate	Isobutyl Alcohol
Butyl Acrylate	Isopropyl Acetate
Butyl Alcohol	Isopropyl Alcohol
Carbon Bisulfide	Jet Fuel and Kerosene
Carbon Disulfide	Methyl Alcohol
Cellosolve	Methyl Amyl Alcohol
Cresols	Methyl Cellosolve
Crude Oil (Petroleum)	Methyl Ethyl Ketone
Cumene	Naptha
Cyclohexane	Pentane
No. 2 Diesel Fuel	Propylene Oxide
Ethyl Acetate	Toluene
Ethyl Acrylate	Vinyl Acetate
Ethyl Alcohol	Xylene

HAZARDOUS GASES

Acetaldehyde	Hydrogen
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Butadiene	Liquefied Natural Gas (LNG)
Butane	Liquefied Petroleum Gas (LPG)
Ethene	Propane
Ethylene	Propylene
Ethylene Oxide	Vinyl Chloride

(Primary Source: "Urban Development Siting with respect to Hazardous Commercial/Industrial Facilities," by Rolf Jensen and Associates, Inc., April 1982)

[49 FR 5105, Feb. 10, 1984; 49 FR 12214, Mar. 29, 1984]

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Appendix II to Subpart C of Part 51—Development of Standards; Calculation Methods

I. Background Information Concerning the Standards

(a) Thermal Radiation:

(1) *Introduction.* Flammable products stored in above ground containers represent a definite, potential threat to human life and structures in the event of fire. The resulting fireball emits thermal radiation which is absorbed by the surroundings. Combustible structures, such as wooden houses, may be ignited by the thermal radiation being emitted. The radiation can cause severe burn, injuries and even death to exposed persons some distance away from the site of the fire.

(2) *Criteria for Acceptable Separation Distance (ASD).* Wooden buildings, window drapes and trees generally ignite spontaneously when exposed for a relatively long period of time to thermal radiation levels of approximately 10,000 Btu/hr. sq. ft. It will take 15 to 20 minutes for a building to ignite at that degree of thermal intensity. Since the reasonable response time for fire fighting units in urbanized areas is approximately five to ten minutes, a standard of 10,000 BTU/hr. sq. ft. is considered an acceptable level of thermal radiation for buildings.

People in outdoor areas exposed to a thermal radiation flux level of approximately 1,500 Btu/ft² hr will suffer intolerable pain after 15 seconds. Longer exposure causes blistering, permanent skin damage, and even death. Since it is assumed that children and the elderly could not take refuge behind walls or run away from the thermal effect of the fire within the 15 seconds before skin blistering occurs, unprotected (outdoor) areas, such as playgrounds, parks, yards, school grounds, etc., must be placed at such a distance from potential fire locations so that the radiation flux level is well below 1500 Btu/ft² hr. An acceptable flux level, particularly for elderly people and children, is 450 Btu/ft² hr. The skin can be exposed to this degree of thermal radiation for 3 minutes or longer with no serious detrimental effect. The result would be the same as a bad sunburn. Therefore, the standard for areas in which there will be exposed people, e.g. outdoor recreation areas such as playgrounds and parks, is set at 450 Btu/hr. sq. ft. Areas covered also include open space ancillary to residential structures, such as yard areas and vehicle parking areas.

(3) *Acceptable Separation Distance From a Potential Fire Hazard.* This is the actual setback required for the safety of occupied buildings and their inhabitants, and people in open spaces (exposed areas) from a potential fire hazard. The specific distance required for safety from such a hazard depends upon the nature and the volume of the substance. The Technical Guidebook entitled "Urban Development Siting With Respect to Hazardous/Commercial Industrial Facilities," which supplements this regulation, contains the technical guidance required to compute Acceptable Separation Distances (ASD) for those flammable substances most often encountered.

(b) *Blast Overpressure:* The Acceptable Separation Distance (ASD) for people and structures from materials prone to explosion is dependent upon the resultant blast measured in pounds per square inch (psi) overpressure. It has been determined by the military and corroborated by two independent studies conducted for the Department of Housing and Urban Development that 0.5 psi is the acceptable level of blast overpressure for both buildings and occupants, because a frame structure can normally withstand that level of external exertion with no serious structural damage, and it is

unlikely that human beings inside the building would normally suffer any serious injury. Using this as the safety standard for blast overpressure, nomographs have been developed from which an ASD can be determined for a given quantity of hazardous substance. These nomographs are contained in the handbook with detailed instructions on their use.

(c) *Hazard evaluation:* The Acceptable Separation Distances for buildings, which are determined for thermal radiation and blast overpressure, delineate separate identifiable danger zones for each potential accident source. For some materials the fire danger zone will have the greatest radius and cover the largest area, while for others the explosion danger zone will be the greatest. For example, conventional petroleum fuel products stored in unpressurized tanks do not emit blast overpressure of dangerous levels when ignited. In most cases, hazardous substances will be stored in pressurized containers. The resulting blast overpressure will be experienced at a greater distance than the resulting thermal radiation for the standards set in Section 51.203. In any event the hazard requiring the greatest separation distance will prevail in determining the location of HUD-assisted projects.

The standards developed for the protection of people and property are given in the following table.

	Thermal radiation	Blast overpressure
Amount of acceptable exposure allowed for building structures	10,000 BTU/ft ² hr	0.5 psi.
Amount of acceptable exposure allowed for people in open areas	450 BTU/ft ² hr	0.5 psi.

Problem Example

The following example is given as a guide to assist in understanding how the procedures are used to determine an acceptable separation distance. The technical data are found in the HUD Guidebook. Liquid propane is used in the example since it is both an explosion and a fire hazard.

In this hypothetical case a proposed housing project is to be located 850 feet from a 30,000 gallon liquid propane (LPG) tank. The objective is to determine the acceptable separation distance from the LPG tank. Since propane is both explosive and fire prone it will be necessary to determine the ASD for both explosion and for fire. The greatest of the two will govern. There is no dike around the tank in this example.

Nomographs from the technical Guidebook have been reproduced to facilitate the solving of the problem.

ASD For Explosion

Use Figure 1 to determine the acceptable separation distance for explosion.

The graph depicted on Figure 1 is predicated on a blast overpressure of 0.5 psi.

The ASD in feet can be determined by applying the quantity of the hazard (in gallons) to the graph.

In this case locate the 30,000 gallon point on the horizontal axis and draw a vertical line from that point to the intersection with the straight line curve. Then draw a horizontal line from the point where the lines cross to the left vertical axis where the ACCEPTABLE SEPARATION DISTANCE of 660 feet is found.

Therefore the ASD for explosion is 660 feet

Since the proposed project site is located 850 feet from the tank it is located at a safe distance with regards to blast overpressure.

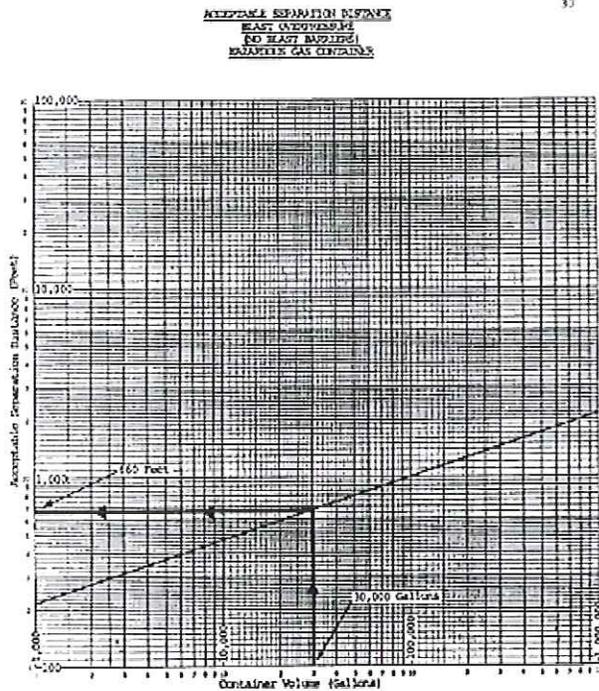


Figure 2

[View or download PDF](#)

ASD For Fire

To determine the ASD for fire it will be necessary to first find the fire width (diameter of the fireball) on Figure 2. Then apply this to Figure 3 to determine the ASD.

Since there are two safety standards for fire: (a) 10,000 BTU/ft²hr. for buildings; and (b) 450 BTU/ft²hr. for people in exposed areas, it will be necessary to determine an ASD for each.

To determine the fire width locate the 30,000 gallon point on the horizontal axis on *Figure 2* and draw a vertical line to the straight line curve. Then draw a horizontal line from the point where the lines cross to the left vertical axis where the FIRE WIDTH is found to be *350 feet*.

Now locate the 350 ft. point on the horizontal axis of *Figure 3* and draw a vertical line from that point to curves 1 and 2. Then draw horizontal lines from the points where the lines cross to the left vertical axis where the ACCEPTABLE SEPARATION DISTANCES of *240 feet* for buildings and *1,150 feet* for exposure to people is found.

Based on this the proposed project site is located at a safe distance from a potential fireball. However, exposed playgrounds or other exposed areas of congregation must be at least 1,150 feet from the tank, or be appropriately shielded from a potential fireball.

(Source: HUD Handbook, "Urban Development Siting With Respect to Hazardous Commercial/Industrial Facilities.")

FIRE WIDTH - UNIDENTIFIED SPILL
ESTIMATE GAS CONTAINERS
NOT EXCEED

32

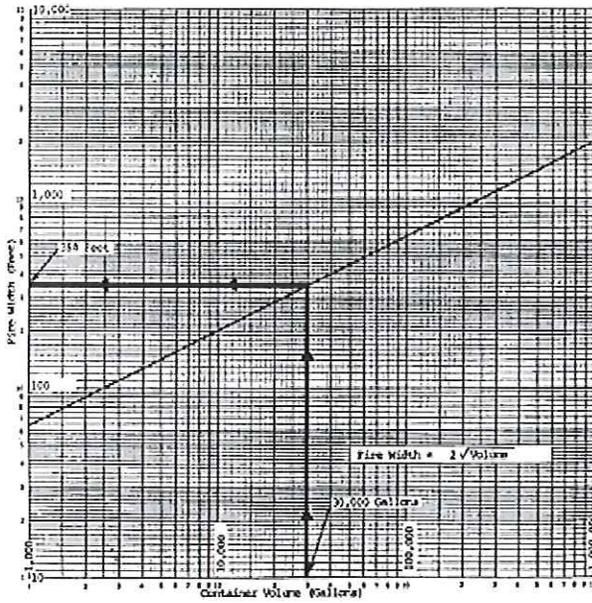


Figure 2

[View or download PDF](#)

ACCEPTABLE SEPARATION DISTANCE
BETWEEN GAS CONTAINERS
NOT EXCEED

33

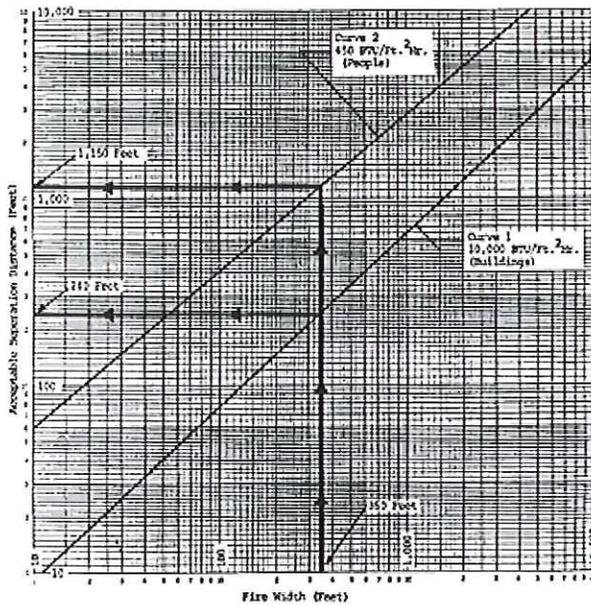


Figure 3

[View or download PDF](#)

[49 FR 5105, Feb. 10, 1984; 49 FR 12214, Mar. 29, 1984]

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Subpart D—Siting of HUD Assisted Projects in Runway Clear Zones at Civil Airports and Clear Zones and Accident Potential Zones at Military Airfields

AUTHORITY: Sec. 2, Housing Act of 1949, as amended, 42 U.S.C. 1441, affirmed by sec. 2, HUD Act of 1969, Pub. L. 90-448; sec. 7(d), HUD Act of 1965, 42 U.S.C. 3535(d); OMB, Fed'l Mgmt. Cir. 75-2: Compatible Land Uses At Federal Airfields.

SOURCE: 49 FR 880, Jan. 6, 1984, unless otherwise noted.

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§51.300 Purpose.

It is the purpose of this subpart to promote compatible land uses around civil airports and military airfields by identifying suitable land uses for Runway Clear Zones at civil airports and Clear Zones and Accident Potential Zones at military airfields and by establishing them as standards for providing HUD assistance, subsidy or insurance.

[49 FR 880, Jan. 6, 1984, as amended at 61 FR 13334, Mar. 26, 1996]

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§51.301 Definitions.

For the purposes of this regulation, the following definitions apply:

(a) *Accident Potential Zone*. An area at military airfields which is beyond the Clear Zone. The standards for the Accident Potential Zones are set out in Department of Defense Instruction 4165.57, "Air Installations Compatible Use Zones," November 8, 1977, 32 CFR part 256. There are no Accident Potential Zones at civil airports.

(b) *Airport Operator*. The civilian or military agency, group or individual which exercises control over the operations of the civil airport or military airfield.

(c) *Civil Airport*. An existing commercial service airport as designated in the National Plan of Integrated Airport Systems prepared by the Federal Aviation Administration in accordance with section 504 of the Airport and Airway Improvement Act of 1982.

(d) *Runway Clear Zones and Clear Zones*. Areas immediately beyond the ends of a runway. The standards for Runway Clear Zones for civil airports are established by FAA regulation 14 CFR part 152. The standards for Clear Zones for military airfields are established by DOD Instruction 4165.57, 32 CFR part 256.

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§51.302 Coverage.

(a) These policies apply to HUD programs which provide assistance, subsidy or insurance for construction, land development, community development or redevelopment or any other provision of facilities and services which are designed to make land available for construction. When the HUD assistance, subsidy or insurance is used to make land available for construction rather than for the actual construction, the provision of the HUD assistance, subsidy or insurance shall be dependent upon whether the facility to be built is itself acceptable in accordance with the standards in §51.303.

(b) These policies apply not only to new construction but also to substantial or major modernization and rehabilitation and to any other program which significantly prolongs the physical or economic life of existing facilities or which, in the case of Accident Potential Zones:

(1) Changes the use of the facility so that it becomes one which is no longer acceptable in accordance with the standards contained in §51.303(b);

(2) Significantly increases the density or number of people at the site; or

(3) Introduces explosive, flammable or toxic materials to the area.

(c) Except as noted in §51.303(a)(3), these policies do not apply to HUD programs where the action only involves the purchase, sale or rental of an existing property without significantly prolonging the physical or economic life of the property.

(d) The policies do not apply to research or demonstration projects which do not result in new construction or reconstruction, to interstate land sales registration, or to any action or emergency assistance which is provided to save lives, protect property, protect public health and safety, or remove debris and wreckage.

[49 FR 880, Jan. 6, 1984, as amended at 61 FR 13334, Mar. 26, 1996]

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§51.303 General policy.

It is HUD's general policy to apply standards to prevent incompatible development around civil airports and military airfields.

(a) HUD policy for actions in Runway Clear Zones and Clear Zones.

(1) HUD policy is not to provide any assistance, subsidy or insurance for projects and actions covered by this part except as stated in §51.303(a)(2) below.

(2) If a project proposed for HUD assistance, subsidy or insurance is one which will not be frequently used or occupied by people, HUD policy is to provide assistance, subsidy or insurance only when written assurances are provided to HUD by the airport operator to the effect that there are no plans to purchase the land involved with such facilities as part of a Runway Clear Zone or Clear Zone acquisition program.

(3) Special notification requirements for Runway Clear Zones and Clear Zones. In all cases involving HUD assistance, subsidy, or insurance for the purchase or sale of an existing property in a Runway Clear Zone or Clear Zone, HUD (or the responsible entity or recipient under 24 CFR part 58) shall advise the buyer that the property is in a Runway Clear Zone or Clear Zone, what the implications of such a location are, and that there is a possibility that the property may, at a later date, be acquired by the airport operator. The buyer must sign a statement acknowledging receipt of this information.

(b) HUD policy for actions in Accident Potential Zones at Military Airfields. HUD policy is to discourage the provision of any assistance, subsidy or insurance for projects and actions in the Accident Potential Zones. To be approved, projects must be generally consistent with the recommendations in the *Land Use Compatibility Guidelines For Accident Potential Zones* chart contained in DOD Instruction 4165.57, 32 CFR part 256.

[49 FR 880, Jan. 6, 1984, as amended at 61 FR 13334, Mar. 26, 1996]

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§51.304 Responsibilities.

(a) The following persons have the authority to approve actions in Accident Potential Zones:

(1) For programs subject to environmental review under 24 CFR part 58: the Certifying Officer of the responsible entity as defined in 24 CFR part 58.

(2) For all other HUD programs: the HUD approving official having approval authority for the project.

(b) The following persons have the authority to approve actions in Runway Clear Zones and Clear Zones:

(1) For programs subject to environmental review under 24 CFR part 58: The Certifying Officer of the responsible entity as defined in 24 CFR part 58.

(2) For all other HUD programs: the Program Assistant Secretary.

[61 FR 13335, Mar. 26, 1996]

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§51.305 Implementation.

(a) Projects already approved for assistance. This regulation does not apply to any project approved for assistance prior to the effective date of the regulation whether the project was actually under construction at that date or not.

(b) Acceptable data on Runway Clear Zones, Clear Zones and Accident Potential Zones. The only Runway Clear Zones, Clear Zones and Accident Potential Zones which will be recognized in applying this part are those provided by the airport operators and which for civil airports are defined in accordance with FAA regulations 14 CFR part 152 or for military airfields, DOD Instruction 4165.57, 32 CFR part 256. All data, including changes, related to the dimensions of Runway Clear Zones for civil airports shall be verified with the nearest FAA Airports District Office before use by HUD.

(c) Changes in Runway Clear Zones, Clear Zones, and Accident Potential Zones. If changes in the Runway Clear Zones, Clear Zones or Accident Potential Zones are made, the field offices shall immediately adopt these revised zones for use in reviewing proposed projects.

(d) The decision to approve projects in the Runway Clear Zones, Clear Zones and Accident Potential Zones must be documented as part of the environmental assessment or, when no assessment is required, as part of the project file.

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For questions concerning e-CFR programming and delivery issues, email webteam@gpo.gov.

APPENDIX 2: EQUIPMENT DATA CALIBRATION





Certificate of Calibration

Certificate No: 5123885AC300004512

Submitted By: RAECO-LIC, L.L.C.
135 BERNICE DRIVE
BENSENVILLE, IL 60106

Serial Number: AC300004512
Customer ID:
Model: AC-300 CALIBRATOR
Test Conditions:
Temperature: 18°C to 29°C
Humidity: 20% to 80%
Barometric Pressure: 890 mbar to 1050 mbar

Date Received: 10/14/2015
Date Issued: 10/15/2015
Valid Until: 10/15/2016

Model Conditions:
As Found: IN TOLERANCE
As Left: IN TOLERANCE

SubAssemblies:

Description: Serial Number:

Calibrated per Procedure: 057V879

Reference Standard(s):

I.D. Number	Device	Last Calibration Date	Calibration Due
ET0000556	B&K ENSEMBLE	4/8/2015	4/8/2016

Measurement Uncertainty:

+/- 1.1% ACOUSTIC (0.1DB) +/- 0.012% HZ
Estimated at 95% Confidence Level (k=2)

Calibrated By: Bryan Rasmussen 10/15/2015
BRYAN RASMUSSEN Service Technician

This report certifies that all calibration equipment used in the test is traceable to NIST, and applies only to the unit identified under equipment above. This report must not be reproduced except in its entirety without the written approval of 3M Detection Solutions.



Certificate of Calibration

Certificate No: 5123885BLN100003

Submitted By: RAECO-LIC, L.L.C.
135 BERNICE DRIVE
BENSENVILLE, IL 60106

Serial Number: BLN100003 Date Received: 10/14/2015
Customer ID: Date Issued: 10/15/2015
Model: SOUNDPRO DL-1-1/3 SLM Valid Until: 10/15/2016

Test Conditions: Model Conditions:
Temperature: 18°C to 29°C As Found: IN TOLERANCE
Humidity: 20% to 80% As Left: IN TOLERANCE
Barometric Pressure: 890 mbar to 1050 mbar

SubAssemblies:

Description:	Serial Number:
MICROPHONE B&K 4936 1/2 IN. ELECTRET TYPE 1 PREAMP	2785629 10127613

Calibrated per Procedure: 53V899

Reference Standard(s):

I.D. Number	Device	Last Calibration Date	Calibration Due
EF000138	QUEST-CAL	12/16/2014	12/16/2015
ET0000556	B&K ENSEMBLE	4/8/2015	4/8/2016

Measurement Uncertainty:

+/- 2.2% ACOUSTIC (0.19DB)
Estimated at 95% Confidence Level (k=2)

Calibrated By: Bryan Rasmussen 10/15/2015
BRYAN RASMUSSEN Service Technician

This report certifies that all calibration equipment used in the test is traceable to NIST, and applies only to the unit identified under equipment above. This report must not be reproduced except in its entirety without the written approval of 3M Detection Solutions.



Certificate of Calibration

Certificate Number: 1509300712AC300006293

Model: AC-300 Acoustic Calibrator
S/N: AC300006293

Date Issued: 30-Sep-2015

On this day of manufacture and calibration, 3M certifies that the above listed product meets or exceeds the performance requirements of the following acoustic standard(s):

ANSI S1.40-2006 (R2011) - Specifications and Verification Procedures for Sound Calibrators
IEC 60942:2003 / EN60942-2003 Electroacoustics Sound Calibrators / Class 1

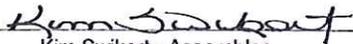
Test Conditions: Temp: 18-25°C Humidity: 20-80% R.H. Barometric Pressure: 950-1050 mBar

Test Procedure: S057-879

Reference Standard(s):

Device	Ref Standard Cal Due	Uncertainty - Estimated at 95% Confidence Level (k=2)
B&K Ensemble	10/15/2015	+/- 2.2% Acoustic (0.19dB)
Fluke 45	2/20/2017	+/- 1.4% AC Voltage, +/- 0.1% DC Voltage

Calibrated By:


Kim Swikert - Assembler

In order to maintain best instrument performance over time and in the event of inspection, audit or litigation, we recommend the instrument be recalibrated annually. Any number of factors may cause the calibration to drift before the recommended interval has expired. See user manual for more information.

All equipment used in the test and calibration of this instrument is traceable to NIST, and applies only to the unit identified above. This report must not be reproduced, except in its entirety, without the written approval of 3M.



Certificate of Calibration

Certificate Number: 1509281037BLP090006

Model: SoundPro SP DL-1-1/3
S/N: BLP090006

Date Issued: 28-Sep-2015

On this day of manufacture and calibration, 3M certifies that the above listed product meets or exceeds the performance requirements of the following acoustic standard(s):

ANSI S1.4 1983 (R 2006) - Specification for Sound Level Meters / Type 1
ANSI S1.43 1997 (R 2007) - Specification for Integrating - Averaging Sound Level Meters / Type 1
IEC 61672-1 (2002) - Electro acoustics – Sound Level Meters – Part 1: Specifications / Class 1

Test Conditions: Temp: 18-25°C Humidity: 20-80% R.H. Barometric Pressure: 950-1050 mBar
Test Procedure: S053-899

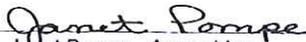
Subassemblies:

B&K 4936	2911143
SPro Preamp	09150952

Reference Standard(s):

Device	Ref Standard Cal Due	Uncertainty - Estimated at 95% Confidence Level (k=2)
B&K Ensemble	10/15/2015	+/- 2.2% Acoustic (0.19dB)
Fluke 45	2/20/2017	+/- 1.4% AC Voltage, +/-0.1% DC Voltage

Calibrated By:


Janet Pompe - Assembler

In order to maintain best instrument performance over time, and in the event of inspection, audit or litigation, we recommend the instrument be recalibrated annually. Any number of factors may cause the calibration to drift before the recommended interval has expired. See user manual for more information.

All equipment used in the test and calibration of this instrument is traceable to NIST, and applies only to the unit identified above. This report must not be reproduced, except in its entirety, without the written approval of 3M.

APPENDIX 3: NOISE LEVEL MEASUREMENT AND GRAPHS



Session Report

9/7/2016

Information Panel

Company Name Sabana Village Apartments LLC
Name Sabana Village Project - Monitoring Station 1 Daytime
Serial Number BLN100003
Start Time 9/6/2016 7:32:02 AM
Stop Time 9/6/2016 8:03:26 AM
Run Time 00:31:24
Model Type SoundPro DL
Device Firmware Rev R.13H
Description At east side

Summary Data Panel

Description	Meter	Value	Description	Meter	Value
Lpk	1	118.4 dB	Leq	1	59.8 dB
TWA	1	47.9 dB	ProjectedTWA (8:00)	1	59.8 dB
Pdose (8:00)	1	0.3 %	LDN	1	59.8 dB
CNEL	1	59.8 dB			
Exchange Rate	1	3 dB	Integrating Threshold	1	80 dB
Log Rate	1	15 s	Weighting	1	A
Response	1	SLOW	Bandwidth	1	OFF

Logged Data Table

Date/Time	Leq-1	Lmax-1	Lmin-1	Lpk-1
9/6/2016 7:32:17 AM	79	90.1	45.5	118.4
7:32:32 AM	39.8	47.6	36.4	56.3
7:32:47 AM	37.9	40.6	36	55.6
7:33:02 AM	37.2	39	36.5	55.2
7:33:17 AM	36.6	38.5	36	50.2
7:33:32 AM	36.4	36.7	36.2	50.3
7:33:47 AM	36.7	38.7	35.9	54.5
7:34:02 AM	36.7	37.6	36.3	52
7:34:17 AM	36.4	36.7	36	50.2
7:34:32 AM	36.9	38	36.1	52.8
7:34:47 AM	36.5	37.3	35.9	50.8

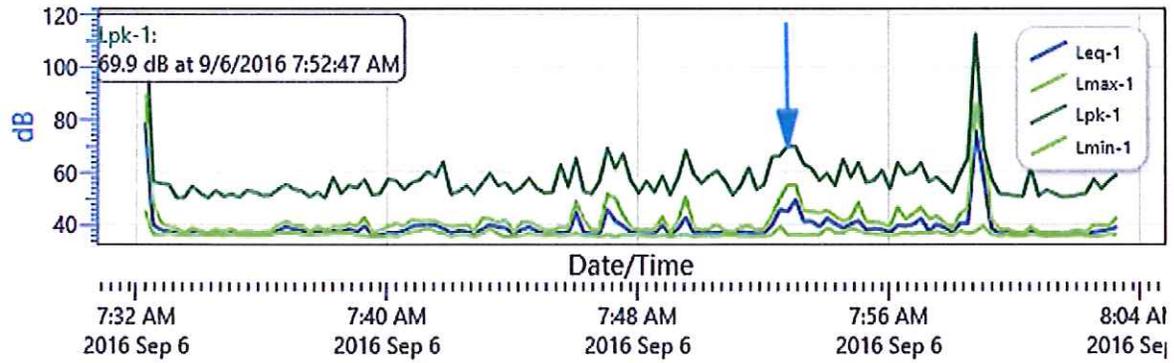
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7:35:17 AM	36.4	36.8	35.9	50.4
7:35:32 AM	36.4	37.6	35.9	52.9
7:35:47 AM	36.4	36.9	35.9	52.3
7:36:02 AM	36.5	37	35.9	51.1
7:36:17 AM	36.5	37.4	36	51.2
7:36:32 AM	37.6	39.6	36.6	53.4
7:36:47 AM	39.2	41.1	36.8	55.2
7:37:02 AM	38.1	39.4	36.8	53.4
7:37:17 AM	37.7	39.6	36.2	52.7
7:37:32 AM	36.4	37.1	36.1	50.7
7:37:47 AM	37.1	39.1	36.1	52.1
7:38:02 AM	36.8	37.7	36.3	50.3
7:38:17 AM	37.4	39.2	36.5	57.8
7:38:32 AM	37.1	38.7	36.5	51.9
7:38:47 AM	38.1	40.2	36.8	54.7
7:39:02 AM	37	39.4	36	54
7:39:17 AM	39.3	42.6	35.9	56.8
7:39:32 AM	36	36.7	35.4	51.3
7:39:47 AM	35.9	37.8	35.1	51.9
7:40:02 AM	36.6	39.2	36	57.2
7:40:17 AM	36.8	40.4	35.6	56.6
7:40:32 AM	37.5	39.5	36.3	53.3
7:40:47 AM	39.1	41.8	37.3	55.9
7:41:02 AM	39.9	41.4	37.6	57
7:41:17 AM	39.8	41.5	38.6	60
7:41:32 AM	39.8	41.3	37.3	58.2
7:41:47 AM	38.4	39.8	36.7	63.7
7:42:02 AM	36.7	39	35.6	51.6
7:42:17 AM	37.5	39.2	36.2	52.7
7:42:32 AM	37.2	40	36.1	54.6
7:42:47 AM	36.5	37.4	35.6	51.8
7:43:02 AM	38	42.3	36.5	55.6
7:43:17 AM	39.9	42.1	38.3	59.4
7:43:32 AM	38.9	40.8	36.5	54.8
7:43:47 AM	38.6	41.8	35.3	55.8
7:44:02 AM	36.3	37	35.6	52.2
7:44:17 AM	37.9	40.7	35.9	54.1
7:44:32 AM	39	41.1	36.6	57.5

7:44:47 AM	37.3	39.4	36.1	53.7
7:45:02 AM	36.4	37.7	35.9	51.9
7:45:17 AM	36.5	37.7	36	52.4
7:45:32 AM	36.7	39.1	35.8	62.7
7:45:47 AM	36.7	38.3	36.1	54.5
7:46:02 AM	44.4	48.8	36.6	65.1
7:46:17 AM	36.9	41.5	35.9	52.6
7:46:32 AM	36.5	37.8	35.8	51.7
7:46:47 AM	36.5	37.9	35.6	56.4
7:47:02 AM	45.6	51.6	36.1	68.8
7:47:17 AM	41.4	50.1	35.5	61.5
7:47:32 AM	39.4	43.6	36	66.6
7:47:47 AM	37	38.8	36	56.6
7:48:02 AM	36.8	37.8	36	52.1
7:48:17 AM	36.5	38	35.8	56.3
7:48:32 AM	36.6	37.9	35.6	52.5
7:48:47 AM	39.5	42.9	36.1	58.3
7:49:02 AM	36	36.5	35.4	51.4
7:49:17 AM	38.3	41.3	36	57.7
7:49:32 AM	42.6	50.5	36.1	68
7:49:47 AM	36.9	38.8	35.6	59.2
7:50:02 AM	36.8	37.9	35.8	55.8
7:50:17 AM	36.7	38.3	35.8	58.6
7:50:32 AM	36.8	40	35.7	60.3
7:50:47 AM	36.7	37.4	36.1	56.5
7:51:02 AM	36.5	37	35.9	51.2
7:51:17 AM	37.1	38.9	35.7	54.9
7:51:32 AM	36.9	39.3	35.6	61.5
7:51:47 AM	36.5	37.9	35.7	53.4
7:52:02 AM	36.5	38.3	35.7	55.2
7:52:17 AM	39.6	43	36.1	65.6
7:52:32 AM	45.6	50.1	39.2	66.2
7:52:47 AM	44.9	55	36	69.9
7:53:02 AM	49.4	55	36.2	69.7
7:53:17 AM	41.3	45	36	63.1
7:53:32 AM	41.2	44.9	36.2	61.4
7:53:47 AM	39.2	44.3	36	56.9
7:54:02 AM	42.3	45.3	38.7	59.3
7:54:17 AM	40.3	43.1	36.9	54.9

7:54:32 AM	38.5	41.2	36.8	64.7
7:54:47 AM	40.1	42.3	38.5	58.1
7:55:02 AM	41.4	48.3	37.7	63.4
7:55:17 AM	37.9	40.9	36.7	56
7:55:32 AM	38.4	40.9	36.4	56.9
7:55:47 AM	37.9	40.3	36.3	60.4
7:56:02 AM	36.9	39.1	36.1	53.8
7:56:17 AM	39.5	46.4	36.2	63.4
7:56:32 AM	39.3	42.1	36.8	59.1
7:56:47 AM	40	44.1	36.3	59.9
7:57:02 AM	42.1	46.3	36.9	63.3
7:57:17 AM	37.5	42	36.5	56.4
7:57:32 AM	40	43.2	37.4	57.8
7:57:47 AM	38.7	40.5	36.5	55.3
7:58:02 AM	37.1	38.1	35.9	52.3
7:58:17 AM	40.4	44.1	37.7	59.4
7:58:32 AM	40.5	46	36.3	65
7:58:47 AM	75.7	86.3	37.3	112.4
7:59:02 AM	58.5	69.5	39.4	69.2
7:59:17 AM	38.3	41.7	36.2	57.3
7:59:32 AM	36.5	38.1	35.7	51.7
7:59:47 AM	36.8	38	36	51.4
8:00:02 AM	36.4	37	35.7	50.9
8:00:17 AM	36.1	36.4	35.7	50.7
8:00:32 AM	37	39	36.2	61.3
8:00:47 AM	36.4	37	35.9	50.9
8:01:02 AM	36.1	36.8	35.5	53
8:01:17 AM	36.2	36.8	35.8	51.7
8:01:32 AM	36.2	36.6	35.7	50.4
8:01:47 AM	36.3	37.1	35.8	50.6
8:02:02 AM	37	37.7	36	51.2
8:02:17 AM	36.3	37	35.8	51.8
8:02:32 AM	36.9	39.8	35.4	57
8:02:47 AM	37.3	39.7	35.7	53.6
8:03:02 AM	37.9	39.6	36.4	56.7
8:03:17 AM	38.9	42.7	35.9	59

Logged Data Chart

Sabana Village Project - Monitoring Station 1 Daytime: Logged Data Chart



Calibration History

Date	Calibration Action	Level	Cal. Model Type	Serial Number	Cert. Due Date
9/6/2016 4:45:17 AM	Calibration	114.0			

Session Report

9/7/2016

Information Panel

Company Name Sabana Village Apartments LLC
Name Sabana Village Project - Monitoring Station 1 Nighttime
Serial Number BLN100003
Start Time 9/6/2016 5:27:41 AM
Stop Time 9/6/2016 5:59:05 AM
Run Time 00:31:24
Model Type Sound Pro DL
Device Firmware Rev R.13H
Description At east side

Summary Data Panel

Description	Meter	Value	Description	Meter	Value
LDN	1	70.4 dB	CNEL	1	70.4 dB
Lpk	1	111.1 dB	Leq	1	60.1 dB
TWA	1	48.3 dB	ProjectedTWA (8:00)	1	60.1 dB
Pdose (8:00)	1	0.3 %			
Exchange Rate	1	3 dB	Integrating Threshold	1	80 dB
Log Rate	1	15 s	Weighting	1	A
Response	1	SLOW	Bandwidth	1	OFF

Logged Data Table

Date/Time	Leq-1	Lmax-1	Lmin-1	Lpk-1
9/6/2016 5:27:56 AM	78.2	88.8	40.9	111.1
5:28:11 AM	77	88.4	40.1	93
5:28:26 AM	39.8	40.1	39.5	63.2
5:28:41 AM	39.7	39.9	39.5	52.6
5:28:56 AM	39.6	39.8	39.3	53.3
5:29:11 AM	40	41.5	39.5	74.2
5:29:26 AM	39.9	40.2	39.7	54.3
5:29:41 AM	39.9	40.3	39.5	53.5
5:29:56 AM	39.5	39.8	39.3	53
5:30:11 AM	39.4	39.6	39.1	52.6

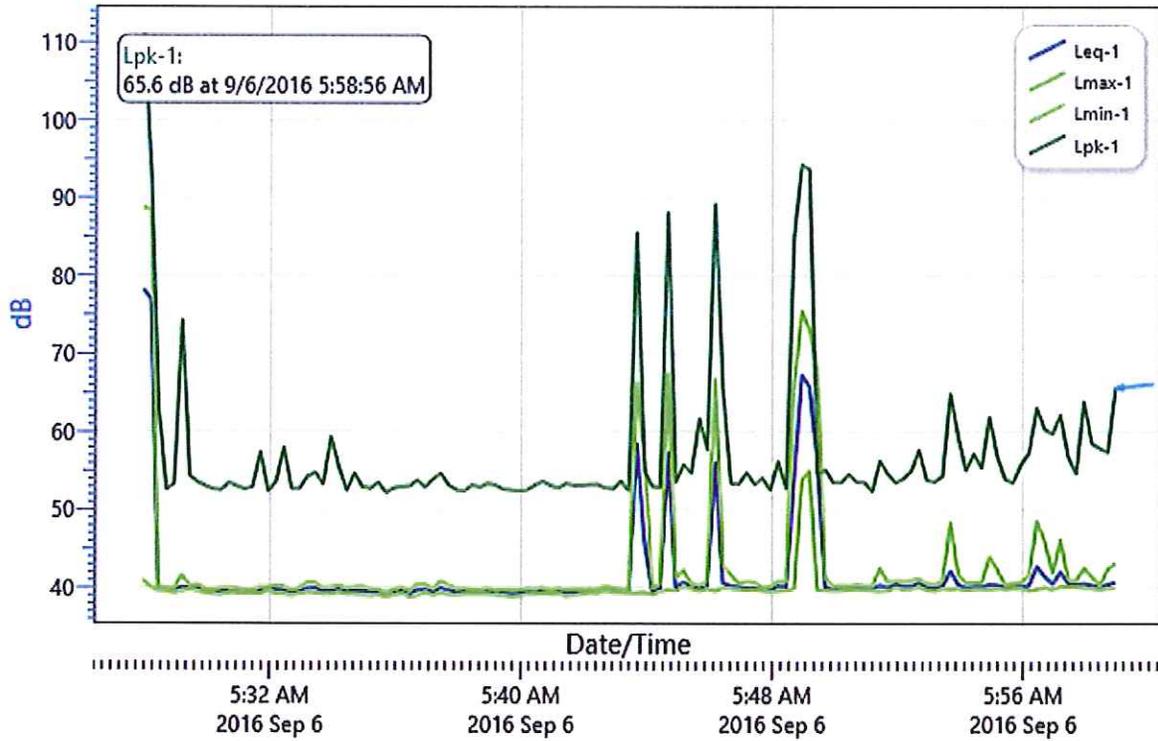
5:30:26 AM	39.5	39.9	39	52.5
5:30:41 AM	39.6	39.9	39.3	53.4
5:30:56 AM	39.6	39.9	39.3	53
5:31:11 AM	39.4	39.6	39.2	52.6
5:31:26 AM	39.4	39.6	39.2	52.9
5:31:41 AM	39.6	40	39.2	57.3
5:31:56 AM	39.8	40	39.6	52.4
5:32:11 AM	39.7	40.2	39.2	53.5
5:32:26 AM	39.6	40.1	39.2	57.9
5:32:41 AM	39.2	39.6	38.9	52.7
5:32:56 AM	39.5	39.9	39.2	52.7
5:33:11 AM	39.8	40.6	39.4	54.2
5:33:26 AM	39.9	40.6	39.3	54.7
5:33:41 AM	39.5	39.9	39.1	53.3
5:33:56 AM	39.5	40	39.1	59.2
5:34:11 AM	39.7	40.2	39.4	55.4
5:34:26 AM	39.4	39.9	39.1	52.5
5:34:41 AM	39.5	40	39.1	54.6
5:34:56 AM	39.5	40.1	39	52.9
5:35:11 AM	39.4	39.8	38.9	52.7
5:35:26 AM	39.3	39.7	39	53.4
5:35:41 AM	39.1	39.3	38.8	52.2
5:35:56 AM	39.4	39.7	39	52.7
5:36:11 AM	39.5	40	39.2	52.9
5:36:26 AM	39.2	39.5	38.8	53
5:36:41 AM	39.6	40.4	38.9	53.7
5:36:56 AM	39.7	40.4	39.4	52.9
5:37:11 AM	39.4	39.8	38.9	53.9
5:37:26 AM	39.9	40.8	39.4	54.6
5:37:41 AM	39.6	40.3	39	53.1
5:37:56 AM	39.4	39.8	39	52.5
5:38:11 AM	39.5	39.9	39.1	52.4
5:38:26 AM	39.3	39.7	39.1	53.1
5:38:41 AM	39.4	39.7	39.1	52.9
5:38:56 AM	39.5	39.9	39.1	53.3
5:39:11 AM	39.3	39.6	39	53.1
5:39:26 AM	39.3	39.7	39	52.6
5:39:41 AM	39.2	39.6	38.8	52.5
5:39:56 AM	39.2	39.7	38.9	52.4

5:40:11 AM	39.4	39.9	39.1	52.5
5:40:26 AM	39.5	39.8	39.1	53.1
5:40:41 AM	39.6	40	39.3	53.6
5:40:56 AM	39.4	39.6	39.1	53.1
5:41:11 AM	39.6	39.9	39.2	52.8
5:41:26 AM	39.3	39.7	38.9	53.3
5:41:41 AM	39.4	39.8	39	53.1
5:41:56 AM	39.3	39.8	39.1	53.1
5:42:11 AM	39.7	39.8	39.4	53.2
5:42:26 AM	39.5	39.8	39.3	53.2
5:42:41 AM	39.8	40.1	39.6	52.8
5:42:56 AM	39.7	40	39.4	52.7
5:43:11 AM	39.6	39.8	39.4	53.6
5:43:26 AM	39.5	39.7	39.3	52.5
5:43:41 AM	58.4	66.4	39.3	85.5
5:43:56 AM	45.9	56.3	39.4	54.9
5:44:11 AM	39.5	39.9	39.1	53
5:44:26 AM	39.9	40.4	39.5	52.9
5:44:41 AM	57.3	67.5	39.7	88.1
5:44:56 AM	40	41.2	39.6	53.6
5:45:11 AM	40.7	42.2	40.1	55.7
5:45:26 AM	40.1	40.5	39.9	54.8
5:45:41 AM	39.9	40.3	39.5	61.6
5:45:56 AM	40.1	40.7	39.9	57.8
5:46:11 AM	56	66.8	39.5	89.2
5:46:26 AM	40.6	42.8	40	65.2
5:46:41 AM	40.2	41.7	39.9	53.4
5:46:56 AM	40.1	40.5	39.8	53.3
5:47:11 AM	39.9	40.8	39.7	54.7
5:47:26 AM	39.9	40.7	39.7	53.3
5:47:41 AM	39.8	40	39.6	54
5:47:56 AM	39.7	40.1	39.4	52.6
5:48:11 AM	40.2	40.8	39.6	56.1
5:48:26 AM	40.1	40.7	39.6	52.8
5:48:41 AM	54.2	66.2	39.9	85.2
5:48:56 AM	67.3	75.5	53.8	94.3
5:49:11 AM	65.8	73.2	54.9	93.7
5:49:26 AM	56.3	67.9	39.7	54.6
5:49:41 AM	40	41.2	39.7	55.1

5:49:56 AM	39.8	40.2	39.5	53.5
5:50:11 AM	39.9	40.3	39.6	53.5
5:50:26 AM	40	40.2	39.7	54.5
5:50:41 AM	40	40.4	39.8	53.6
5:50:56 AM	40	40.3	39.7	53.5
5:51:11 AM	39.9	40.2	39.6	52.4
5:51:26 AM	40.3	42.5	39.5	56.2
5:51:41 AM	40	40.7	39.6	54.6
5:51:56 AM	40.4	40.9	40	53.5
5:52:11 AM	40.2	40.8	39.8	54
5:52:26 AM	40.2	40.9	39.8	55
5:52:41 AM	40.6	41.1	40.1	57.6
5:52:56 AM	40.1	40.5	39.7	53.8
5:53:11 AM	39.9	40.4	39.5	53.6
5:53:26 AM	40.2	40.8	39.9	54.3
5:53:41 AM	42.1	48.3	39.8	64.8
5:53:56 AM	40.4	41.6	39.9	59.3
5:54:11 AM	40	40.6	39.7	55.1
5:54:26 AM	40.1	40.7	39.8	57.1
5:54:41 AM	40.1	40.6	39.8	55.4
5:54:56 AM	40.4	43.9	39.8	61.8
5:55:11 AM	40.3	42.3	39.9	56.8
5:55:26 AM	40.1	40.4	39.8	53.9
5:55:41 AM	40.2	40.5	39.9	53.5
5:55:56 AM	40.1	40.7	39.9	55.8
5:56:11 AM	40.3	41.5	39.6	57.3
5:56:26 AM	42.7	48.5	39.8	63
5:56:41 AM	41.4	45.9	40	60.3
5:56:56 AM	40.5	41.9	39.8	59.8
5:57:11 AM	42	46.1	40.1	62.1
5:57:26 AM	40.6	41	40.2	56.8
5:57:41 AM	40.4	40.9	40.1	54.7
5:57:56 AM	40.5	42.5	40	63.8
5:58:11 AM	40.3	41.4	39.9	58.5
5:58:26 AM	40.1	40.3	39.8	57.9
5:58:41 AM	40.4	42.4	39.9	57.4
5:58:56 AM	40.7	43.1	40	65.6

Logged Data Chart

Sabana Village Project - Monitoring Station 1 Nighttime: Logged Data Chart



Calibration History

Date	Calibration Action	Level	Cal. Model Type	Serial Number	Cert. Due Date
9/6/2016 4:45:17 AM	Calibration	114.0			

Session Report

9/7/2016

Information Panel

Company Name Sabana Village Apartments LLC
Name Sabana Village Project - Monitoring Station 2 Daytime
Serial Number BLN100003
Start Time 9/6/2016 8:04:57 AM
Stop Time 9/6/2016 8:36:31 AM
Run Time 00:31:34
Model Type Sound Pro DL
Device Firmware Rev R.13H
Description At north side

Summary Data Panel

Description	Meter	Value	Description	Meter	Value
LDN	1	61.2 dB	CNEL	1	61.2 dB
Lpk	1	118.5 dB	Leq	1	61.2 dB
TWA	1	49.4 dB	ProjectedTWA (8:00)	1	61.2 dB
Pdose (8:00)	1	0.4 %			
Exchange Rate	1	3 dB	Integrating Threshold	1	80 dB
Log Rate	1	15 s	Weighting	1	A
Response	1	SLOW	Bandwidth	1	OFF

Logged Data Table

Date/Time	Leq-1	Lmax-1	Lmin-1	Lpk-1
9/6/2016 8:05:12 AM	81.3	90.9	48.6	118.5
8:05:27 AM	42.6	49	34.3	63.2
8:05:42 AM	46.3	55.2	32.4	74
8:05:57 AM	42.8	46.1	36.4	61.9
8:06:12 AM	39.9	45.3	33.8	59.4
8:06:27 AM	36.9	45.4	31.3	59.6
8:06:42 AM	42.5	46.9	31.6	61.7
8:06:57 AM	40.1	44.5	29.9	56.8
8:07:12 AM	39.5	41.2	36.7	54.4
8:07:27 AM	37.4	39.1	34.9	52.4

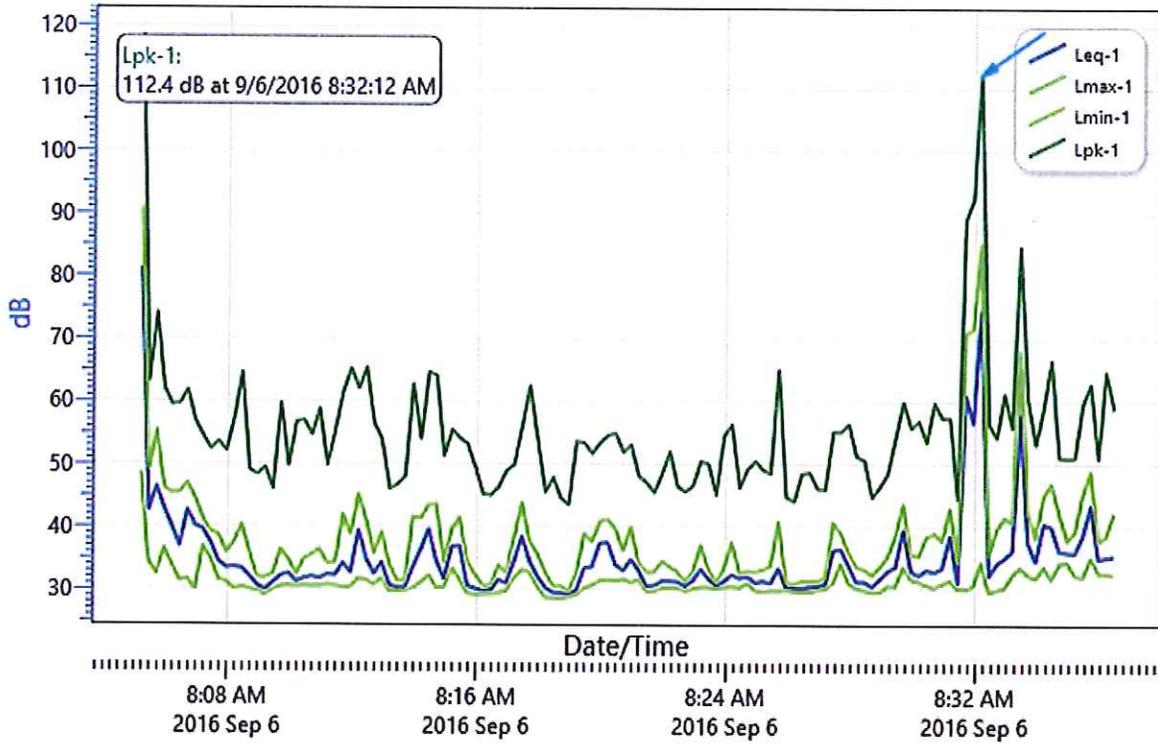
8:07:42 AM	34.4	38.7	31.5	53.5
8:07:57 AM	33.4	35.9	31.1	52.1
8:08:12 AM	33.5	37.4	30	57.2
8:08:27 AM	33.3	40.2	30.3	64.5
8:08:42 AM	32	35.9	30	49
8:08:57 AM	30.6	31.9	29.7	48.3
8:09:12 AM	29.9	31.8	29.1	49.4
8:09:27 AM	31	32.4	29.9	46.1
8:09:42 AM	32.1	36.3	30.5	59.6
8:09:57 AM	32.5	34.8	30.6	49.8
8:10:12 AM	31.2	32.3	30.5	56.7
8:10:27 AM	31.7	34.8	30.6	56.9
8:10:42 AM	32	35.5	30.5	54.7
8:10:57 AM	31.7	36.3	30.5	58.7
8:11:12 AM	32.3	34.1	30.7	49.9
8:11:27 AM	32.2	34.2	30.6	55.4
8:11:42 AM	34.1	41.9	30.2	61.5
8:11:57 AM	32.7	38.8	30.4	65.1
8:12:12 AM	39.3	45.1	31.7	62.1
8:12:27 AM	34.8	40.9	31.4	65.3
8:12:42 AM	32.5	35.8	30.7	56.5
8:12:57 AM	34.2	39	31.7	53.9
8:13:12 AM	30.6	33.9	29.7	46.1
8:13:27 AM	30.3	31.3	29.7	46.7
8:13:42 AM	30.3	31.3	29.8	48
8:13:57 AM	33.5	41.5	30.2	62.6
8:14:12 AM	36.3	41.3	31	54.1
8:14:27 AM	39.5	43.4	32.2	64.6
8:14:42 AM	34.6	43.6	30.3	64.1
8:14:57 AM	31.7	34.3	30.3	51.4
8:15:12 AM	36.8	39.6	33.4	55.4
8:15:27 AM	36.9	41.4	31.5	54.1
8:15:42 AM	30.6	34.4	29.4	53.2
8:15:57 AM	30.1	32.3	29.2	49.5
8:16:12 AM	29.7	30.6	29.3	45.2
8:16:27 AM	29.9	30.6	29.3	45.1
8:16:42 AM	31.5	33.8	29.4	46.3
8:16:57 AM	31	32.7	29.8	48.9
8:17:12 AM	34.5	38.2	31.9	49.9

8:17:27 AM	38.4	43.8	33.1	56
8:17:42 AM	34.5	37.6	32.8	62.4
8:17:57 AM	32.1	35.6	30.5	53.9
8:18:12 AM	30.3	32.8	28.7	45.6
8:18:27 AM	29.5	30.5	28.7	47.8
8:18:42 AM	29.4	30.6	28.6	44.6
8:18:57 AM	29.2	29.7	28.8	43.6
8:19:12 AM	29.9	32.5	29.2	53.6
8:19:27 AM	33.4	38.9	30.3	53.4
8:19:42 AM	33.7	37.7	30.7	51.8
8:19:57 AM	37.4	40.9	31.4	53.4
8:20:12 AM	37.5	41.2	31.6	54.6
8:20:27 AM	34	39.8	31.4	54.9
8:20:42 AM	33.1	36.3	31.7	52
8:20:57 AM	34.8	40	31.1	53.1
8:21:12 AM	33.1	34.3	31.7	48.2
8:21:27 AM	30.6	32.8	29.8	47.1
8:21:42 AM	30.7	32.9	29.8	45.6
8:21:57 AM	31.4	34.5	30.3	48.5
8:22:12 AM	31.4	33.7	30.4	52
8:22:27 AM	31.3	32.9	30.3	46.5
8:22:42 AM	30.6	31.3	29.8	45.7
8:22:57 AM	31.5	32.9	30.2	46.6
8:23:12 AM	33.3	37.1	30.5	50.5
8:23:27 AM	31.8	33.2	30.5	50.1
8:23:42 AM	30.7	31.2	30.2	45.3
8:23:57 AM	31.4	33.4	30.5	54.6
8:24:12 AM	32.4	37.5	30.6	56.3
8:24:27 AM	31.9	32.7	30.4	46.4
8:24:42 AM	32.1	33	31.1	49.3
8:24:57 AM	31.2	32.9	29.9	50.5
8:25:12 AM	31.4	33.3	29.8	49.2
8:25:27 AM	31.1	33.8	29.9	48.6
8:25:42 AM	33.4	40.8	29.9	65
8:25:57 AM	30.4	31.1	30	44.8
8:26:12 AM	30.3	31	29.8	44.2
8:26:27 AM	30.3	31.4	29.7	48.5
8:26:42 AM	30.5	31.4	29.7	48.7
8:26:57 AM	30.6	31.5	30	46.2

8:27:12 AM	30.9	31.9	30.3	46.1
8:27:27 AM	36.3	40.7	31.2	55.2
8:27:42 AM	36.5	39.1	34.2	55.3
8:27:57 AM	33.9	35.9	31.1	56.4
8:28:12 AM	31.3	33.7	30.3	51.4
8:28:27 AM	31.3	33.3	30	50.7
8:28:42 AM	30.6	32.4	29.6	44.9
8:28:57 AM	31.8	33.7	29.7	46.5
8:29:12 AM	33	35.3	30.7	48.5
8:29:27 AM	33.7	38.4	30.6	54.2
8:29:42 AM	39.5	43.7	33.7	59.9
8:29:57 AM	33	35.6	31.7	55.9
8:30:12 AM	32.4	35.4	31.3	56.9
8:30:27 AM	33.2	38.5	30.8	53.7
8:30:42 AM	32.9	39	30.4	59.8
8:30:57 AM	33.5	37.9	31	57.5
8:31:12 AM	38.6	42.9	31.5	57.4
8:31:27 AM	31.2	34.4	30.2	44.6
8:31:42 AM	61	70.9	30.2	89.2
8:31:57 AM	56.7	71.7	30.7	92.4
8:32:12 AM	74.6	85.3	34.4	112.4
8:32:27 AM	32.3	35.5	29.7	56.5
8:32:42 AM	34.2	39.7	30	54.4
8:32:57 AM	35.1	41.5	30.4	61.2
8:33:12 AM	36.2	40.7	32.4	56
8:33:27 AM	58.1	68.2	33.6	84.7
8:33:42 AM	37.5	42.1	32.4	60.3
8:33:57 AM	34.6	38.2	31.9	53.3
8:34:12 AM	40.5	45	33.7	59
8:34:27 AM	40.1	46.9	31.8	66.6
8:34:42 AM	36.2	42.2	34.2	51.2
8:34:57 AM	36	38	34.4	51
8:35:12 AM	35.9	39.3	32.4	51.2
8:35:27 AM	38.7	45.3	32.1	59.7
8:35:42 AM	43.4	48.9	35.1	62.8
8:35:57 AM	35	37.8	32.8	51.1
8:36:12 AM	35.2	38.6	32.6	64.7
8:36:27 AM	35.4	42.3	32.4	58.9

Logged Data Chart

Sabana Village Project - Monitoring Station 2 Daytime: Logged Data Chart



Calibration History

Date	Calibration Action	Level	Cal. Model Type	Serial Number	Cert. Due Date
9/6/2016 4:45:17 AM	Calibration	114.0			

Session Report

9/7/2016

Information Panel

Company Name Sabana Village Apartments LLC
Name Sabana Village Project - Monitoring Station 2 Nighttime
Serial Number BLN100003
Start Time 9/6/2016 6:00:28 AM
Stop Time 9/6/2016 6:33:48 AM
Run Time 00:33:20
Model Type Sound Pro DL
Device Firmware Rev R.13H
Description At north side

Summary Data Panel

Description	Meter	Value	Description	Meter	Value
LDN	1	71.4 dB	CNEL	1	71.4 dB
Lpk	1	112.1 dB	Leq	1	55.6 dB
TWA	1	44 dB	ProjectedTWA (8:00)	1	55.6 dB
Pdose (8:00)	1	0.1 %			
Exchange Rate	1	3 dB	Integrating Threshold	1	80 dB
Log Rate	1	15 s	Weighting	1	A
Response	1	SLOW	Bandwidth	1	OFF

Logged Data Table

Date/Time	Leq-1	Lmax-1	Lmin-1	Lpk-1
9/6/2016 6:00:43 AM	75.1	84.8	45.1	112.1
6:00:58 AM	40.4	45.1	39.4	55
6:01:13 AM	40.4	41.7	39.6	54
6:01:28 AM	39.9	40.1	39.6	53.6
6:01:43 AM	39.7	40	39.5	53.7
6:01:58 AM	40.3	42.1	39.4	56.3
6:02:13 AM	39.7	40.7	39.1	53.5
6:02:28 AM	39.6	39.9	39.4	52.9
6:02:43 AM	39.9	40.8	39.4	53.8
6:02:58 AM	40.5	42.6	39.4	54.8



6:03:13 AM	40.3	42.2	39.4	55.8
6:03:28 AM	40.1	41.3	39.7	53.5
6:03:43 AM	40.5	42	39.9	57.2
6:03:58 AM	41.3	42.6	40.2	56.5
6:04:13 AM	40.8	41.9	39.8	56.7
6:04:28 AM	40.3	41.8	39.6	56.5
6:04:43 AM	39.8	40.5	39.4	54.2
6:04:58 AM	40	41.3	39.5	59.9
6:05:13 AM	39.9	40.8	39.3	54
6:05:28 AM	43	46	40.3	62.1
6:05:43 AM	69.2	72.9	40.7	91.6
6:05:58 AM	65.4	72.8	39.9	89.1
6:06:13 AM	39.8	40.1	39.5	52.5
6:06:28 AM	39.8	40.1	39.5	53.2
6:06:43 AM	40.3	41.2	39.5	56.2
6:06:58 AM	42.3	47.6	40	64.1
6:07:13 AM	39.9	40.7	39.7	54.7
6:07:28 AM	39.9	40.5	39.4	54.8
6:07:43 AM	39.7	40	39.4	52.8
6:07:58 AM	40	41.9	39.6	56.1
6:08:13 AM	40.4	41.6	39.5	63
6:08:28 AM	40	40.9	39.4	56
6:08:43 AM	39.5	39.9	39.2	52.7
6:08:58 AM	39.8	40	39.5	52.9
6:09:13 AM	39.6	40	39.4	55.6
6:09:28 AM	39.6	39.8	39.3	52.9
6:09:43 AM	39.8	41	39.4	57.8
6:09:58 AM	39.5	39.8	39.2	53.1
6:10:13 AM	40.1	41.2	39.4	53.8
6:10:28 AM	39.9	40.3	39.4	53.9
6:10:43 AM	43.6	46.1	40	58.6
6:10:58 AM	41.4	43	39.9	61.9
6:11:13 AM	40.4	41.9	39.6	55.1
6:11:28 AM	39.7	39.9	39.5	53.4
6:11:43 AM	39.7	40.5	39.2	54.2
6:11:58 AM	39.7	40.2	39.3	53.8
6:12:13 AM	39.8	40.2	39.5	52.9
6:12:28 AM	39.6	39.9	39.3	54
6:12:43 AM	39.8	40.1	39.5	53.2

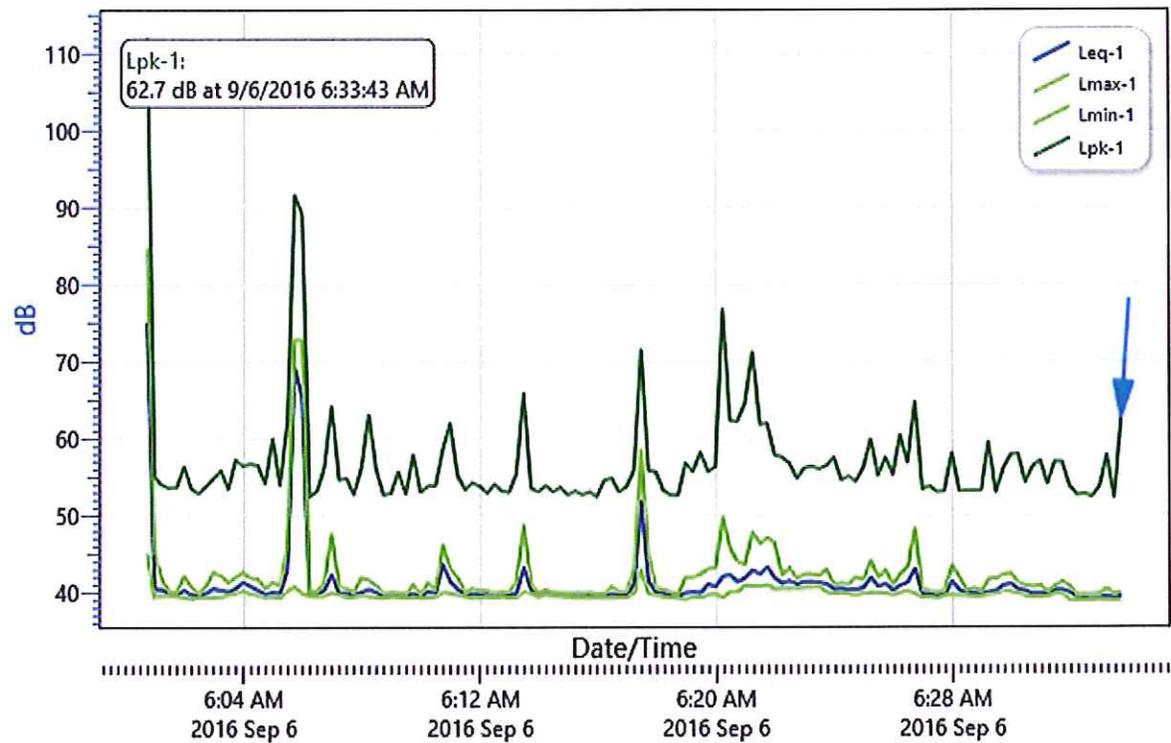
6:12:58 AM	39.7	40	39.3	53
6:13:13 AM	39.8	41.3	39.3	55.4
6:13:28 AM	43.2	48.6	40.1	65.7
6:13:43 AM	40.3	41	39.9	53.5
6:13:58 AM	39.7	39.9	39.4	53.1
6:14:13 AM	40	40.3	39.7	53.8
6:14:28 AM	39.7	40	39.5	53.1
6:14:43 AM	39.7	39.9	39.5	53.6
6:14:58 AM	39.7	39.9	39.4	52.7
6:15:13 AM	39.5	39.9	39.2	53.1
6:15:28 AM	39.6	39.9	39.3	52.7
6:15:43 AM	39.6	40	39.2	53
6:15:58 AM	39.6	39.8	39.3	52.5
6:16:13 AM	39.5	39.8	39.2	54.5
6:16:28 AM	39.7	40.7	39.2	54.8
6:16:43 AM	39.6	40	39.3	53.1
6:16:58 AM	39.7	40.1	39.3	53.7
6:17:13 AM	41	42.8	39.9	55.8
6:17:28 AM	51.7	58.6	42.9	71.4
6:17:43 AM	41.4	44.7	39.8	55.8
6:17:58 AM	40	40.5	39.6	55.6
6:18:13 AM	39.8	40.3	39.4	53.2
6:18:28 AM	39.6	40	39.3	52.6
6:18:43 AM	39.4	39.7	39.2	52.6
6:18:58 AM	39.9	41.9	39	56.7
6:19:13 AM	40	41.9	39.4	55.7
6:19:28 AM	39.9	42.3	39.3	58.1
6:19:43 AM	41	43	39.6	55.7
6:19:58 AM	40.7	43.1	39.7	56.3
6:20:13 AM	42	49.6	39.3	76.7
6:20:28 AM	42.2	45.7	40	62.3
6:20:43 AM	41.3	44	40	62.2
6:20:58 AM	41.8	43.6	40.9	64.5
6:21:13 AM	42.8	47.7	40.8	71.1
6:21:28 AM	42.3	46.3	40.8	61.8
6:21:43 AM	43.2	47	40.9	61.9
6:21:58 AM	41.8	46.4	40.4	57.8
6:22:13 AM	41.1	42.2	40.5	57.5
6:22:28 AM	41.4	43.1	40.5	56.7

6:22:43 AM	41	41.7	40.5	54.8
6:22:58 AM	41.3	42.3	40.6	56.1
6:23:13 AM	41.3	42.3	40.6	56.3
6:23:28 AM	41.2	42.1	40.7	56
6:23:43 AM	41	42.9	40	56.4
6:23:58 AM	40.4	40.9	39.8	57.4
6:24:13 AM	40.4	41.1	39.9	54.6
6:24:28 AM	40.3	41	39.7	55
6:24:43 AM	40.3	41.9	39.5	54.4
6:24:58 AM	40.5	41.5	39.8	56.1
6:25:13 AM	41.8	44	39.9	59.7
6:25:28 AM	40.7	41.9	39.9	55.2
6:25:43 AM	41	42.8	39.8	57.4
6:25:58 AM	40.2	40.9	39.5	55.3
6:26:13 AM	40.8	42.3	39.9	60.3
6:26:28 AM	41.2	43.2	40.1	56.9
6:26:43 AM	43	48.2	39.7	64.6
6:26:58 AM	39.7	40.2	39.3	53.4
6:27:13 AM	39.7	40.1	39.3	53.7
6:27:28 AM	39.5	39.9	39.1	53
6:27:43 AM	39.7	40.1	39.5	53.1
6:27:58 AM	41.3	43.4	39.6	58
6:28:13 AM	40.2	41.8	39.5	53.1
6:28:28 AM	39.8	40.1	39.5	53.1
6:28:43 AM	39.8	40.5	39.4	53.1
6:28:58 AM	39.7	40	39.4	53.2
6:29:13 AM	39.9	41.6	39.6	59.4
6:29:28 AM	40.1	41.7	39.7	53
6:29:43 AM	40.8	42.2	40.1	56
6:29:58 AM	41	42.4	40	57.8
6:30:13 AM	40.3	41.1	39.8	57.9
6:30:28 AM	40.1	40.8	39.4	54.3
6:30:43 AM	39.7	40.6	39.3	56.3
6:30:58 AM	39.7	40.8	39.3	57
6:31:13 AM	39.7	40	39.4	54.1
6:31:28 AM	40.2	40.7	39.7	56.9
6:31:43 AM	40.2	41.3	39.7	56.8
6:31:58 AM	39.9	40.7	38.9	53.7
6:32:13 AM	39.3	39.5	38.9	52.6

6:32:28 AM	39.2	39.6	38.9	52.7
6:32:43 AM	39.1	39.5	38.9	52.4
6:32:58 AM	39.2	39.7	39	53.6
6:33:13 AM	39.4	40.4	38.9	57.7
6:33:28 AM	39.2	39.6	38.9	52.3
6:33:43 AM	39.4	39.9	38.9	62.7

Logged Data Chart

Sabana Village Project - Monitoring Station 2 Nighttime: Logged Data Chart



Calibration History

Date	Calibration Action	Level	Cal. Model Type	Serial Number	Cert. Due Date
9/6/2016 4:45:17 AM	Calibration	114.0			

Session Report

9/7/2016

Information Panel

Company Name Sabana Village Apartments LLC
Name Sabana Village Project - Monitoring Station 3 Daytime
Serial Number BLP090006
Start Time 9/6/2016 7:33:10 AM
Stop Time 9/6/2016 8:04:10 AM
Run Time 00:31:00
Model Type Sound Pro DL
Device Firmware Rev R.13H
Description At west side

Summary Data Panel

Description	Meter	Value	Description	Meter	Value
LDN	1	70.3 dB	CNEL	1	70.3 dB
Lpk	1	110 dB	Leq	1	58.5 dB
TWA	1	46.6 dB	ProjectedTWA (8:00)	1	58.5 dB
Pdose (8:00)	1	0.2 %			
Exchange Rate	1	3 dB	Integrating Threshold	1	80 dB
Log Rate	1	15 s	Weighting	1	A
Response	1	SLOW	Bandwidth	1	OFF

Logged Data Table

Date/Time	Leq-1	Lmax-1	Lmin-1	Lpk-1
9/6/2016 7:33:25 AM	58.3	68.3	49	103.6
7:33:40 AM	52.5	55	50.3	76.2
7:33:55 AM	51.4	55.3	48.5	81.1
7:34:10 AM	65.8	73	54	110
7:34:25 AM	53.2	58.4	48.5	72.3
7:34:40 AM	52.6	57.9	48.6	81.6
7:34:55 AM	56.1	64.1	49.7	82.5
7:35:10 AM	50.7	53.6	49.1	70.7
7:35:25 AM	51.7	57.4	49.5	74.8
7:35:40 AM	50.5	52.8	49.5	69.7

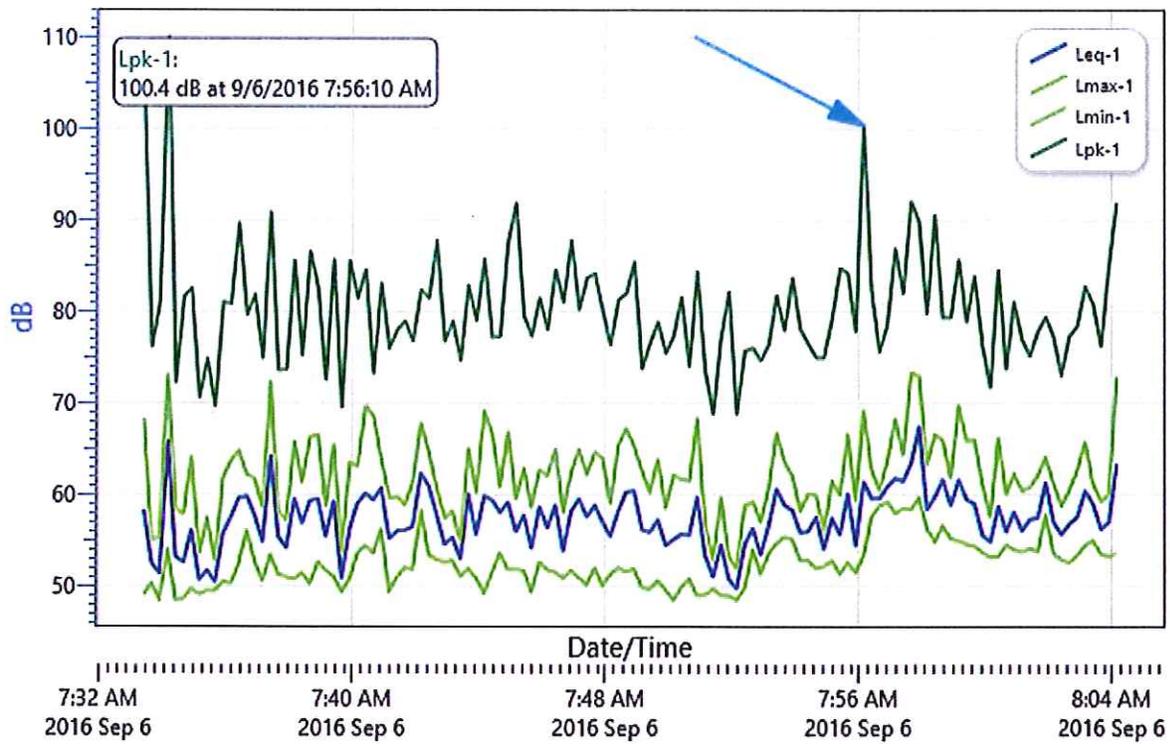
7:35:55 AM	55.8	61.8	50.5	81
7:36:10 AM	57.5	63.7	50.3	80.9
7:36:25 AM	59.6	64.8	52.4	89.6
7:36:40 AM	59.8	62.2	56	79.7
7:36:55 AM	57.7	61.7	52.7	81.8
7:37:10 AM	54.9	58.6	50.6	75
7:37:25 AM	64.2	72.3	53.4	90.8
7:37:40 AM	55.4	58.1	51.3	73.6
7:37:55 AM	54.2	57.2	51	73.7
7:38:10 AM	59.5	65.7	50.8	85.5
7:38:25 AM	56.9	61.4	51.4	75.3
7:38:40 AM	59.3	66.3	50.3	86.5
7:38:55 AM	59.5	66.5	52.6	82.5
7:39:10 AM	55.5	58.7	51.7	72.6
7:39:25 AM	59.2	65.4	51.1	85.6
7:39:40 AM	50.9	53.6	49.4	69.6
7:39:55 AM	56.3	63.5	50.8	85.5
7:40:10 AM	59	63.1	53.6	81.5
7:40:25 AM	60.1	69.6	54.4	84.5
7:40:40 AM	59.4	68.6	53.6	73.3
7:40:55 AM	60.7	63.9	56.2	83
7:41:10 AM	55.2	59.6	49.4	76
7:41:25 AM	56	59.8	51	78
7:41:40 AM	56.1	58.9	52	78.9
7:41:55 AM	56.5	61.3	51.8	76.8
7:42:10 AM	62.3	67.8	58.3	82.3
7:42:25 AM	60.9	64.6	53.4	81.5
7:42:40 AM	57.8	60.7	52.9	87.7
7:42:55 AM	54.6	57.4	52.6	76.8
7:43:10 AM	55.3	58.2	52.8	78.9
7:43:25 AM	53	54.8	51.1	74.7
7:43:40 AM	60	65	51.9	82.8
7:43:55 AM	55.7	60.3	50.9	79.1
7:44:10 AM	59.8	69.1	49.2	85.7
7:44:25 AM	59.4	66.7	51.5	77.2
7:44:40 AM	58.1	60.9	53.6	77.3
7:44:55 AM	59.1	66.8	51.8	87.7
7:45:10 AM	56	59.6	51.9	91.8
7:45:25 AM	57.7	62.8	51.7	79.5

7:45:40 AM	54.2	58.7	49.4	77.4
7:45:55 AM	58.6	62.7	52.6	81.4
7:46:10 AM	56.4	62.1	51.8	78.1
7:46:25 AM	58.8	64.9	51.5	84.5
7:46:40 AM	53.9	58.1	50.9	81.1
7:46:55 AM	58.2	62.5	51.7	87.7
7:47:10 AM	59.5	64.9	50.9	80.3
7:47:25 AM	57.6	62.2	50.2	83.7
7:47:40 AM	58.8	64.6	52	84.1
7:47:55 AM	57	64	50.1	80.1
7:48:10 AM	55.5	59.1	51.3	76.4
7:48:25 AM	58.2	65.4	52	81.3
7:48:40 AM	60.3	67.2	51.6	82
7:48:55 AM	60.4	65.3	51.9	85.4
7:49:10 AM	56.2	62.6	49.9	73.8
7:49:25 AM	55.9	60.3	49.7	76.5
7:49:40 AM	57.2	63.8	50.6	78.8
7:49:55 AM	54.5	58.6	49.6	75.5
7:50:10 AM	55.1	62.1	48.5	77.3
7:50:25 AM	55.7	61.7	49.9	81.5
7:50:40 AM	55.6	61.5	50.8	74.1
7:50:55 AM	59.7	68.3	49	84.3
7:51:10 AM	53.4	56.7	49.1	73.6
7:51:25 AM	51.1	52.8	49.7	68.9
7:51:40 AM	54.5	59.7	49	77.2
7:51:55 AM	50.8	53.2	49	82.1
7:52:10 AM	49.8	51.9	48.5	68.9
7:52:25 AM	54.6	58.8	49.9	75.7
7:52:40 AM	56.3	59.2	54	76
7:52:55 AM	53.5	57.1	51.4	74.7
7:53:10 AM	56.6	60.7	53.6	76.4
7:53:25 AM	60.6	66.7	54.7	81.7
7:53:40 AM	58.9	63.6	55.4	78
7:53:55 AM	58.3	62.1	55.1	83.6
7:54:10 AM	55.9	58.2	52.8	78.1
7:54:25 AM	56	60.1	52.8	76.5
7:54:40 AM	57.5	60	52	75
7:54:55 AM	54.1	55.9	52.2	75
7:55:10 AM	57.4	61.5	52.8	79.2

7:55:25 AM	55.7	60	51.4	84.7
7:55:40 AM	60.1	66.6	52.6	84.2
7:55:55 AM	54.5	59.3	51.5	77.9
7:56:10 AM	61.4	69.2	53.3	100.4
7:56:25 AM	59.6	62.7	57.6	82.4
7:56:40 AM	59.6	60.5	58.8	75.7
7:56:55 AM	60.9	63.7	59.2	78.6
7:57:10 AM	61.8	68.3	58	86.8
7:57:25 AM	61.5	64.4	58.5	82.1
7:57:40 AM	63.5	73.3	58.4	92
7:57:55 AM	67.4	73	59.7	89.8
7:58:10 AM	58.4	63.3	56.3	79.9
7:58:25 AM	59.8	66.6	54.9	90.5
7:58:40 AM	61.6	66	56.6	79.4
7:58:55 AM	58.9	61.9	55.2	79.4
7:59:10 AM	61.6	69.7	55	85.6
7:59:25 AM	59.5	65.9	54.6	79
7:59:40 AM	59	66	54.4	83.8
7:59:55 AM	55.6	61.1	53.7	76.3
8:00:10 AM	54.9	57.6	53.2	71.8
8:00:25 AM	58.7	66.2	53.3	84.5
8:00:40 AM	56	60.1	54.5	73.8
8:00:55 AM	58.1	62.3	54	81
8:01:10 AM	56.1	60.5	53.8	77
8:01:25 AM	57.3	60.8	54.1	75.2
8:01:40 AM	57.5	62.1	53.8	77.8
8:01:55 AM	61.3	64.1	57.9	79.4
8:02:10 AM	57	61.2	53.6	77.3
8:02:25 AM	55.7	58.8	52.9	73.1
8:02:40 AM	56.8	60.5	52.6	77.3
8:02:55 AM	57.6	62.7	53.4	78.4
8:03:10 AM	60.4	65.7	54.5	82.7
8:03:25 AM	59	61.2	55	80.9
8:03:40 AM	56.3	59.3	53.5	76.3
8:03:55 AM	57	60	53.3	84.9
8:04:10 AM	63.4	72.9	53.6	91.9

Logged Data Chart

Sabana Village Project - Monitoring Station 3 Daytime: Logged Data Chart



Calibration History

Date	Calibration Action	Level	Cal. Model Type	Serial Number	Cert. Due Date
9/6/2016 4:46:01 AM	Calibration	114.0			

Session Report

9/7/2016

Information Panel

Company Name Sabana Village Apartments LLC
Name Sabana Village Project - Monitoring Station 3 Nighttime
Serial Number BLP090006
Start Time 9/6/2016 5:29:04 AM
Stop Time 9/6/2016 5:59:08 AM
Run Time 00:30:04
Model Type Sound Pro DL
Device Firmware Rev R.13H
Description At west side

Summary Data Panel

Description	Meter	Value	Description	Meter	Value
LDN	1	66.3 dB	CNEL	1	66.3 dB
Lpk	1	102.7 dB	Leq	1	56.3 dB
TWA	1	44.3 dB	ProjectedTWA (8:00)	1	56.3 dB
Pdose (8:00)	1	0.1 %			
Exchange Rate	1	3 dB	Integrating Threshold	1	80 dB
Log Rate	1	15 s	Weighting	1	A
Response	1	SLOW	Bandwidth	1	OFF

Logged Data Table

Date/Time	Leq-1	Lmax-1	Lmin-1	Lpk-1
9/6/2016 5:29:19 AM	60.5	66.5	55.3	96.6
5:29:34 AM	56.5	59.9	54.7	76
5:29:49 AM	54.8	56.2	54	78
5:30:04 AM	62.7	71.4	52.8	99.2
5:30:19 AM	61.5	68.3	55.5	102.7
5:30:34 AM	64.1	69.7	54.8	86.4
5:30:49 AM	54.9	56.2	54	71.4
5:31:04 AM	54.3	54.9	53.9	67.7
5:31:19 AM	54.3	55	53.6	69.4
5:31:34 AM	54.7	55.8	53.6	68.8

5:31:49 AM	54.9	56.2	54.3	73.3
5:32:04 AM	54.8	55.5	54.3	68.4
5:32:19 AM	54.4	54.7	54	68.1
5:32:34 AM	55	58.4	54.1	77.5
5:32:49 AM	55.2	56	54.5	69.3
5:33:04 AM	54.8	55.4	54.5	68.5
5:33:19 AM	54.8	55.8	54.4	70.3
5:33:34 AM	55.1	55.4	54.6	68.8
5:33:49 AM	54.9	55.4	54.4	68.6
5:34:04 AM	54.9	55.3	54.5	70.4
5:34:19 AM	54.9	56.4	54.1	74.1
5:34:34 AM	54.9	56.3	54	71.5
5:34:49 AM	55.4	56.1	54.7	70.1
5:35:04 AM	55	56.6	54.5	69.7
5:35:19 AM	54.8	56.6	53.9	68.7
5:35:34 AM	54.5	54.9	54.3	69.5
5:35:49 AM	54.7	55.5	54.3	70.9
5:36:04 AM	54.6	55.4	54.3	69.6
5:36:19 AM	54.9	56	54.3	69.6
5:36:34 AM	55.7	56.8	55.1	75.2
5:36:49 AM	54.9	55.8	54.5	71.8
5:37:04 AM	55.2	57.3	54.8	70.5
5:37:19 AM	55.6	56.4	54.8	69.8
5:37:34 AM	55.3	56	54.9	70.3
5:37:49 AM	55.2	55.6	54.7	70.3
5:38:04 AM	55	55.5	54.6	69.7
5:38:19 AM	54.8	55.3	54.5	68.9
5:38:34 AM	54.6	55.4	54.3	68.7
5:38:49 AM	54.6	55	54.1	68.4
5:39:04 AM	54.5	54.8	53.8	68.2
5:39:19 AM	54.7	55.3	53.8	68.6
5:39:34 AM	55	55.4	54.5	69.2
5:39:49 AM	54.9	55.4	54.5	70.6
5:40:04 AM	55.1	55.8	54.7	69.4
5:40:19 AM	54.9	55.5	54.3	68.6
5:40:34 AM	54.6	55.1	54.3	69
5:40:49 AM	54.6	55.1	54.3	68.5
5:41:04 AM	54.6	55.3	54.1	69.3
5:41:19 AM	54.9	55.4	54	70.5

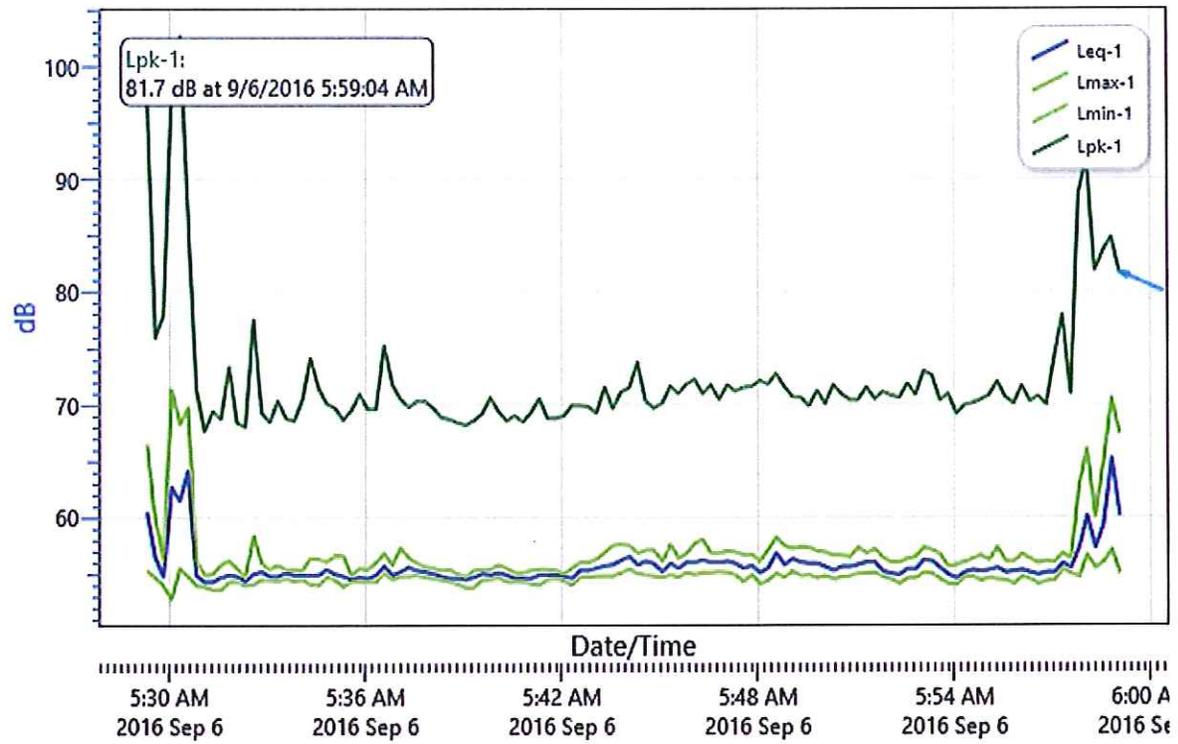
5:41:34 AM	54.9	55.4	54.5	68.8
5:41:49 AM	54.9	55.3	54.6	68.8
5:42:04 AM	54.8	55	54.4	69
5:42:19 AM	54.6	55.5	54	69.9
5:42:34 AM	55.3	56	54.7	69.9
5:42:49 AM	55.3	56	54.7	69.8
5:43:04 AM	55.5	56.3	54.8	69.3
5:43:19 AM	55.7	56.9	54.8	71.5
5:43:34 AM	55.8	57.5	54.8	69.7
5:43:49 AM	56.2	57.6	55.1	71.1
5:44:04 AM	56.5	57.5	55.4	71.5
5:44:19 AM	55.8	56.8	55	73.7
5:44:34 AM	56.1	57.1	54.9	70.3
5:44:49 AM	55.9	57.1	54.8	69.7
5:45:04 AM	55.2	56.1	54.7	70.1
5:45:19 AM	55.9	57.6	54.9	71.6
5:45:34 AM	55.5	56.4	54.7	71
5:45:49 AM	56	56.8	55.1	71.8
5:46:04 AM	56	57.7	54.9	72.2
5:46:19 AM	56.2	58	55.1	71
5:46:34 AM	56	56.8	55.1	71.7
5:46:49 AM	56	56.8	55.2	70.5
5:47:04 AM	56.1	57	55.1	71.7
5:47:19 AM	55.9	56.9	54.9	71.2
5:47:34 AM	55.5	56.7	54.3	71.5
5:47:49 AM	55.7	56.7	54.9	71.6
5:48:04 AM	55.1	56.1	54.1	72.1
5:48:19 AM	55.5	57.1	54.4	71.8
5:48:34 AM	56.8	58.2	55	72.7
5:48:49 AM	55.8	57.5	54.7	71.6
5:49:04 AM	56.3	57.2	55.2	70.7
5:49:19 AM	56	57.4	54.8	70.6
5:49:34 AM	55.9	57.3	54.9	69.9
5:49:49 AM	55.9	57	54.6	71.2
5:50:04 AM	55.6	56.9	54.8	70.1
5:50:19 AM	55.3	56.6	54.5	71.7
5:50:34 AM	55.6	56.6	54.7	70.9
5:50:49 AM	55.6	56.5	54.8	70.4
5:51:04 AM	55.8	57.3	55	70.4

5:51:19 AM	56	56.8	55	71.5
5:51:34 AM	56	57.2	55.1	70.5
5:51:49 AM	55.2	56.4	54.7	71.1
5:52:04 AM	55	56	54.5	70.8
5:52:19 AM	54.9	56	54.1	70.6
5:52:34 AM	55.4	56.3	54.6	71.8
5:52:49 AM	55.4	56.5	54.6	70.9
5:53:04 AM	56.2	57.3	55.1	72.9
5:53:19 AM	56.1	57.1	55	72.6
5:53:34 AM	55.5	56.7	54.5	70.4
5:53:49 AM	54.9	55.6	54.1	70.9
5:54:04 AM	54.6	55.8	54	69.2
5:54:19 AM	55.1	56	54.7	69.9
5:54:34 AM	55.3	56.3	54.7	70.1
5:54:49 AM	55.2	56.6	54.4	70.4
5:55:04 AM	55.3	56.2	54.6	70.8
5:55:19 AM	55.5	57.3	54.5	72
5:55:34 AM	55.1	56.1	54.4	70.6
5:55:49 AM	55.2	56.1	54.1	70.1
5:56:04 AM	55.3	56.7	54.7	71.6
5:56:19 AM	55.1	56.3	54.5	70.3
5:56:34 AM	54.9	55.9	54.1	70.7
5:56:49 AM	55.1	56.1	54.3	70
5:57:04 AM	55.1	56	54.4	74.2
5:57:19 AM	55.9	56.8	55.4	77.9
5:57:34 AM	55.5	56.3	55	71
5:57:49 AM	57.3	62.8	54.7	88.7
5:58:04 AM	60.1	66	56.6	91.7
5:58:19 AM	57.3	60	55.5	81.9
5:58:34 AM	59.3	64.8	56	83.6
5:58:49 AM	65.2	70.5	57.1	84.8
5:59:04 AM	60.1	67.4	55	81.7



Logged Data Chart

Sabana Village Project - Monitoring Station 3 Nighttime: Logged Data Chart



Calibration History

Date	Calibration Action	Level	Cal. Model Type	Serial Number	Cert. Due Date
9/6/2016 4:46:01 AM	Calibration	114.0			

Session Report

9/7/2016

Information Panel

Company Name Sabana Village Apartments LLC
Name Sabana Village Project - Monitoring Station 4 Daytime
Serial Number BLP090006
Start Time 9/6/2016 8:08:03 AM
Stop Time 9/6/2016 8:38:16 AM
Run Time 00:30:13
Model Type Sound Pro DL
Device Firmware Rev R.13H
Description At south side

Summary Data Panel

Description	Meter	Value	Description	Meter	Value
LDN	1	71 dB	CNEL	1	71 dB
Lpk	1	119.4 dB	Leq	1	61.5 dB
TWA	1	49.4 dB	ProjectedTWA (8:00)	1	61.5 dB
Pdose (8:00)	1	0.4 %			
Exchange Rate	1	3 dB	Integrating Threshold	1	80 dB
Log Rate	1	15 s	Weighting	1	A
Response	1	SLOW	Bandwidth	1	OFF

Logged Data Table

Date/Time	Leq-1	Lmax-1	Lmin-1	Lpk-1
9/6/2016 8:08:18 AM	58.9	65.4	54.5	97
8:08:33 AM	54.3	55.9	53.6	77.7
8:08:48 AM	55.3	59.8	53.6	88.5
8:09:03 AM	63.8	70.8	53.9	86.4
8:09:18 AM	69	73.4	58.2	90.2
8:09:33 AM	66.3	71.1	54.3	87.7
8:09:48 AM	69.6	77.5	55.9	100.1
8:10:03 AM	54.1	55.9	53.4	74
8:10:18 AM	70.8	82.4	54.3	117.8
8:10:33 AM	67.6	75.8	54.6	93.9

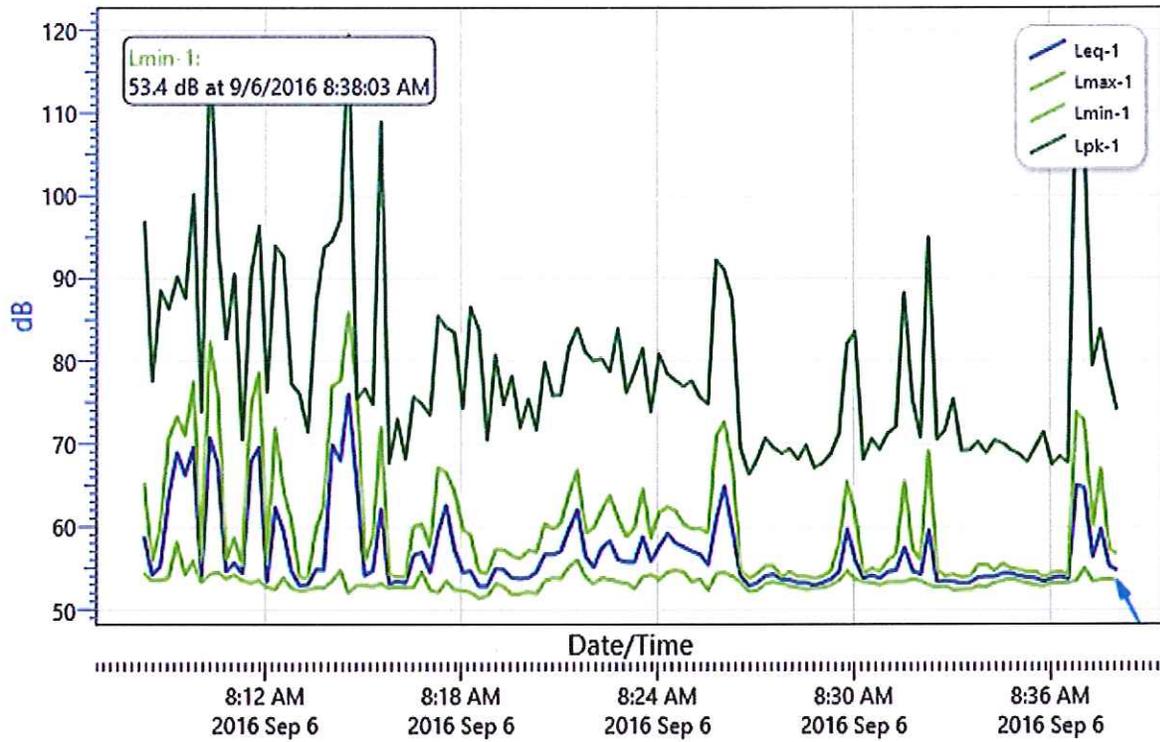
8:10:48 AM	54.7	56.1	53.8	82.8
8:11:03 AM	55.7	58.7	54.3	90.5
8:11:18 AM	54.5	55.5	53.6	70.6
8:11:33 AM	68	74.8	53.3	90.6
8:11:48 AM	69.6	78.6	53.6	96.3
8:12:03 AM	53.5	55.5	52.8	76.4
8:12:18 AM	62.4	72	52.5	93.9
8:12:33 AM	59.6	64.6	53.9	92.6
8:12:48 AM	54.8	60.9	52.7	77.3
8:13:03 AM	53	54	52.4	76.1
8:13:18 AM	53.1	53.8	52.5	71.6
8:13:33 AM	54.9	59.8	52.7	86.9
8:13:48 AM	54.9	62.6	52.7	93.7
8:14:03 AM	69.9	77	53.5	94.6
8:14:18 AM	68.1	77.7	54.8	97.2
8:14:33 AM	76	85.9	52.1	119.4
8:14:48 AM	65.8	77.1	53	75.5
8:15:03 AM	54.2	55.9	53	76.7
8:15:18 AM	54.8	58.8	52.9	74.9
8:15:33 AM	62.2	72	53.2	108.9
8:15:48 AM	53.2	54.3	52.7	67.8
8:16:03 AM	53.5	54.1	52.8	73
8:16:18 AM	53.3	53.9	52.7	68.3
8:16:33 AM	56.6	60.1	52.8	75.7
8:16:48 AM	57	60.4	54.6	74.9
8:17:03 AM	54.6	57.7	52.5	73.6
8:17:18 AM	59.4	67.2	52.1	85.4
8:17:33 AM	62.6	66.6	53.5	84.1
8:17:48 AM	57.3	64.4	52.5	83.5
8:18:03 AM	54.6	59.7	52.4	74.4
8:18:18 AM	54.7	59.1	52.1	86.5
8:18:33 AM	52.9	54.7	51.5	83.8
8:18:48 AM	52.9	54.4	51.7	70.6
8:19:03 AM	55	57.3	53.2	80.7
8:19:18 AM	54.9	57.3	52.9	74.8
8:19:33 AM	53.9	56.6	51.9	78.2
8:19:48 AM	53.8	56.2	52	72.1
8:20:03 AM	53.9	57.2	52.2	75.4
8:20:18 AM	54.6	57	52	71.8

8:20:33 AM	56.7	60.4	53.5	79.8
8:20:48 AM	56.7	59.8	53.9	75.9
8:21:03 AM	57.1	60.5	53.8	76
8:21:18 AM	59.8	64.1	55.3	81.8
8:21:33 AM	62.1	66.8	56	84
8:21:48 AM	56.5	59.3	54	81.1
8:22:03 AM	55.2	59.9	53.2	80.1
8:22:18 AM	57.5	62.1	53.9	80.3
8:22:33 AM	58.3	63.8	53.7	78.8
8:22:48 AM	56.1	61.1	53.4	83.9
8:23:03 AM	55.8	58.9	53.3	76.3
8:23:18 AM	55.8	59.9	52.6	78.7
8:23:33 AM	58.8	64.6	54	81.5
8:23:48 AM	55.9	58.7	54.3	74
8:24:03 AM	57.7	61.8	53.7	80.8
8:24:18 AM	59.2	62.4	54.6	78.5
8:24:33 AM	58.1	62	54.8	77.7
8:24:48 AM	57.6	60.4	54.6	77
8:25:03 AM	57.1	59.8	53.4	77.6
8:25:18 AM	56.7	59.8	53.7	75.7
8:25:33 AM	55.5	59.3	52.4	74.9
8:25:48 AM	61.1	71	54.4	92.2
8:26:03 AM	64.9	72.7	54.5	91
8:26:18 AM	59.7	67.5	54.1	87.5
8:26:33 AM	54.1	54.8	53.4	69.5
8:26:48 AM	52.9	53.8	52.2	66.4
8:27:03 AM	53.3	54.4	52.4	68.2
8:27:18 AM	54.1	55.3	53.2	70.7
8:27:33 AM	54.3	55.3	53.4	69.6
8:27:48 AM	53.7	54	53.2	68.9
8:28:03 AM	53.6	54.6	52.9	69.4
8:28:18 AM	53.3	54	52.7	68.2
8:28:33 AM	53.3	54	52.5	69.8
8:28:48 AM	52.9	53.8	52.6	67.2
8:29:03 AM	53.3	54	52.7	67.7
8:29:18 AM	53.7	54.7	53	68.8
8:29:33 AM	54.6	57.8	53.6	71.2
8:29:48 AM	59.7	65.5	54.7	82.1
8:30:03 AM	56	61.6	53.7	83.5

8:30:18 AM	53.8	54.3	53.4	68.2
8:30:33 AM	54.2	55	53.3	70.6
8:30:48 AM	53.8	54.6	53	69.4
8:31:03 AM	54.6	56	53.4	71.3
8:31:18 AM	54.8	56.7	53.4	72.1
8:31:33 AM	57.5	65.5	53.4	88.2
8:31:48 AM	54.7	57.3	53.7	75.4
8:32:03 AM	54.3	56	53.5	70.9
8:32:18 AM	59.6	69.2	53	94.9
8:32:33 AM	53.4	54.8	52.8	70.6
8:32:48 AM	53.5	54.1	52.9	71.7
8:33:03 AM	53.4	54.3	52.4	75.4
8:33:18 AM	53.2	53.9	52.5	69.2
8:33:33 AM	53.3	54	52.5	69.3
8:33:48 AM	53.9	55.4	52.9	70.2
8:34:03 AM	54	55.5	52.8	69
8:34:18 AM	54	54.7	53.3	70.4
8:34:33 AM	54.4	55.6	53.5	70.1
8:34:48 AM	54.4	55	53.8	69.3
8:35:03 AM	54.1	54.8	53.5	68.8
8:35:18 AM	53.9	54.6	53.2	67.9
8:35:33 AM	53.8	54.6	53	69.6
8:35:48 AM	53.4	53.9	52.9	71.4
8:36:03 AM	53.8	54.4	53.3	67.6
8:36:18 AM	54	54.6	53.2	68.5
8:36:33 AM	53.7	54.1	53.3	67.8
8:36:48 AM	65	73.8	53.5	108.3
8:37:03 AM	64.7	72.8	55	110
8:37:18 AM	56.4	60	53.4	79.5
8:37:33 AM	59.7	67	53.6	83.8
8:37:48 AM	55.3	57.2	53.7	78.4
8:38:03 AM	54.7	56.8	53.4	74.1

Logged Data Chart

Sabana Village Project - Monitoring Station 4 Daytime: Logged Data Chart



Calibration History

Date	Calibration Action	Level	Cal. Model Type	Serial Number	Cert. Due Date
9/6/2016 4:46:01 AM	Calibration	114.0			

Session Report

9/7/2016

Information Panel

Company Name Sabana Village Apartments LLC
Name Sabana Village Project - Monitoring Station 4 Nighttime
Serial Number BLP090006
Start Time 9/6/2016 6:01:09 AM
Stop Time 9/6/2016 6:32:49 AM
Run Time 00:31:40
Model Type Sound Pro DL
Device Firmware Rev R.13H
Description At south side

Summary Data Panel

Description	Meter	Value	Description	Meter	Value
LDN	1	68.4 dB	CNEL	1	68.4 dB
Lpk	1	113.2 dB	Leq	1	54.5 dB
TWA	1	42.7 dB	ProjectedTWA (8:00)	1	54.5 dB
Pdose (8:00)	1	0.1 %			
Exchange Rate	1	3 dB	Integrating Threshold	1	80 dB
Log Rate	1	15 s	Weighting	1	A
Response	1	SLOW	Bandwidth	1	OFF

Logged Data Table

Date/Time	Leq-1	Lmax-1	Lmin-1	Lpk-1
9/6/2016 6:01:24 AM	61.5	72.1	49.9	113.2
6:01:39 AM	50.7	53.6	49.2	77
6:01:54 AM	50	51.7	49.2	69.6
6:02:09 AM	51.5	55.6	49.1	79.3
6:02:24 AM	51.4	56.2	49.1	76
6:02:39 AM	54.2	56.7	50.8	75.9
6:02:54 AM	51.5	55.1	49.6	72.1
6:03:09 AM	50.5	52.2	49.5	67.9
6:03:24 AM	50.2	53.6	49.2	70.3
6:03:39 AM	49.6	50.5	49	65.9

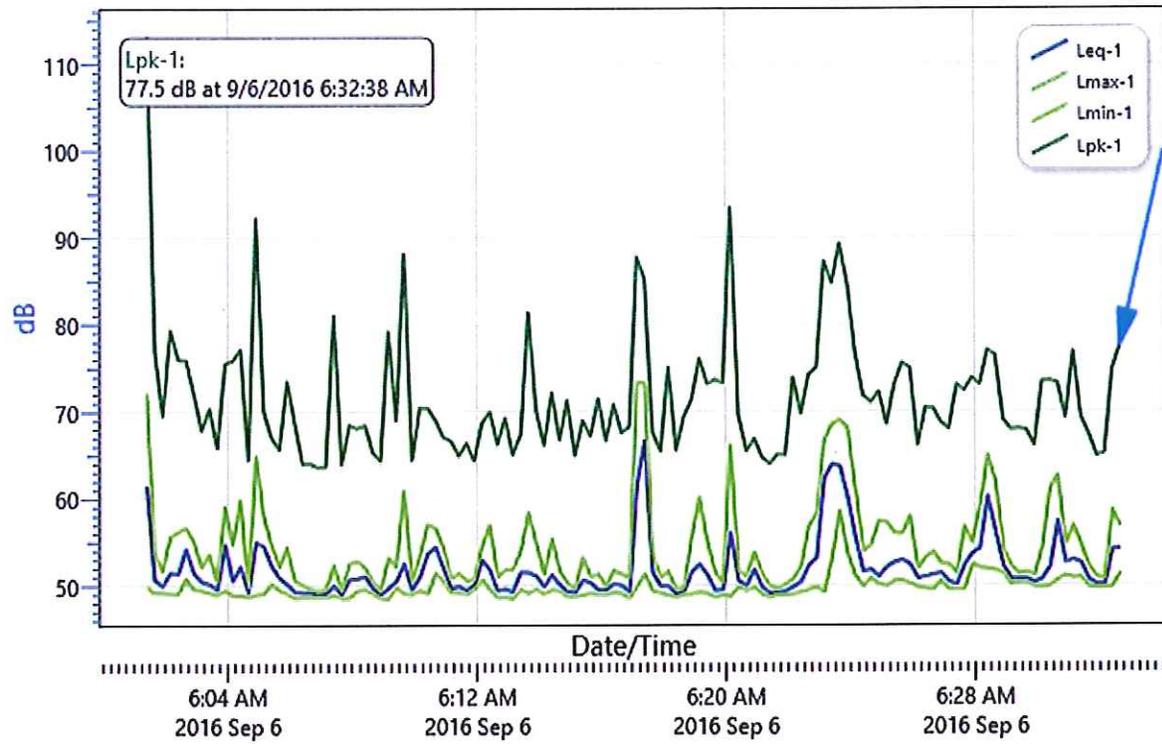
6:03:54 AM	54.7	59.1	49.5	75.5
6:04:09 AM	50.6	54.8	48.9	75.9
6:04:24 AM	52.2	59.8	48.9	77.1
6:04:39 AM	49.3	49.9	48.7	64.5
6:04:54 AM	55	64.9	49	92.2
6:05:09 AM	54.5	57.9	49.1	70
6:05:24 AM	52.3	54.7	50.2	67
6:05:39 AM	50.9	52.2	49.5	65.7
6:05:54 AM	50.2	54.4	49.1	73.4
6:06:09 AM	49.3	50.6	48.6	68.6
6:06:24 AM	49.2	50.1	48.7	64
6:06:39 AM	49.2	49.6	48.7	64
6:06:54 AM	49	49.4	48.7	63.6
6:07:09 AM	49.1	49.6	48.7	63.7
6:07:24 AM	50	52.4	48.9	81
6:07:39 AM	49	49.4	48.6	64
6:07:54 AM	50.7	52.5	48.6	68.4
6:08:09 AM	50.8	52.8	49.4	68.1
6:08:24 AM	51.1	52.1	49.6	68.4
6:08:39 AM	49.7	50.5	49.1	65.3
6:08:54 AM	49	49.4	48.6	64.4
6:09:09 AM	49.7	53.2	48.5	79.1
6:09:24 AM	50.5	52.2	49.8	69.1
6:09:39 AM	52.5	60.9	49.1	88.1
6:09:54 AM	49.6	50.3	49	64.5
6:10:09 AM	51	53.5	49.5	70.4
6:10:24 AM	53.7	57	49.1	70.4
6:10:39 AM	54.4	56.6	51.4	69
6:10:54 AM	52.1	54.4	50.6	67.1
6:11:09 AM	49.7	50.8	49.2	66.6
6:11:24 AM	49.9	51.4	49.2	65
6:11:39 AM	49.5	50.6	49	66.3
6:11:54 AM	50	50.7	49.6	64.4
6:12:09 AM	52.9	54.6	50.7	68.7
6:12:24 AM	51.8	56.9	49.6	69.9
6:12:39 AM	49.4	51	48.6	66.3
6:12:54 AM	49.6	51.8	48.7	69.2
6:13:09 AM	49.3	51.9	48.5	65.1
6:13:24 AM	51.5	53.9	49.6	67.3

6:13:39 AM	51.5	58.4	49.1	81.3
6:13:54 AM	51.1	54.9	49.6	70.1
6:14:09 AM	49.9	51.3	49	66.2
6:14:24 AM	51.2	55.3	49.5	72.1
6:14:39 AM	50.1	51.7	49.4	66.8
6:14:54 AM	49.3	50.3	48.7	71.2
6:15:09 AM	49.2	49.6	48.7	65
6:15:24 AM	50.6	53.2	48.9	68.9
6:15:39 AM	50.3	51	49.1	67.2
6:15:54 AM	49.5	51.3	49	71.4
6:16:09 AM	49.5	49.9	49	66.7
6:16:24 AM	50.2	51.7	49.2	70.7
6:16:39 AM	50	51.3	49.1	67.6
6:16:54 AM	49.3	50.9	48.6	68.2
6:17:09 AM	61.6	73.3	49.9	87.7
6:17:24 AM	66.6	73.3	51.3	85.2
6:17:39 AM	51.5	53.5	49.4	67.6
6:17:54 AM	49.9	50.9	49.1	65.5
6:18:09 AM	49.9	51.6	48.9	75
6:18:24 AM	49	49.5	48.6	65.6
6:18:39 AM	49.3	49.7	49	69.4
6:18:54 AM	51.5	55.5	49	71.3
6:19:09 AM	52.4	60.1	49.2	76
6:19:24 AM	51.2	55	49.1	73.2
6:19:39 AM	49.4	51.5	48.6	73.6
6:19:54 AM	49.5	50.3	48.9	73.3
6:20:09 AM	56	66.1	48.7	93.4
6:20:24 AM	50.5	51.6	49.8	69.6
6:20:39 AM	50	51	49.4	65.5
6:20:54 AM	51.8	53.8	49.8	66.8
6:21:09 AM	49.8	51.3	49	64.7
6:21:24 AM	49.1	49.9	48.6	64
6:21:39 AM	49.1	49.6	48.9	65
6:21:54 AM	49.3	50.1	48.9	65
6:22:09 AM	49.8	50.7	49	73.8
6:22:24 AM	50.4	52.2	49.2	69.8
6:22:39 AM	52.3	56.8	49.5	74.2
6:22:54 AM	53.1	58.1	49.8	75
6:23:09 AM	62.3	66.6	49.2	87.2

6:23:24 AM	63.9	68.5	53.2	84.8
6:23:39 AM	63.7	69	58.5	89.2
6:23:54 AM	60.2	68.1	53.6	84.7
6:24:09 AM	55.5	61.2	51.1	76.7
6:24:24 AM	51.6	53.9	49.9	71.8
6:24:39 AM	51.8	54.6	50.8	71.1
6:24:54 AM	51	57.4	50.1	72.2
6:25:09 AM	52.1	57.2	49.9	68.6
6:25:24 AM	52.6	56	50.5	73.1
6:25:39 AM	52.9	55.9	50.5	75.5
6:25:54 AM	52.4	57.9	50.2	75
6:26:09 AM	50.8	51.9	49.8	66.2
6:26:24 AM	51	53.2	49.6	70.4
6:26:39 AM	51.2	53.8	49.5	70.3
6:26:54 AM	51.4	52.5	50.5	68.7
6:27:09 AM	50.4	52.4	49.5	68
6:27:24 AM	50.1	51.4	49.5	73
6:27:39 AM	52.3	56.7	49.5	72.4
6:27:54 AM	53.6	54.9	52.4	73.8
6:28:09 AM	54.2	58.9	52	73.1
6:28:24 AM	60.2	64.9	51.9	77
6:28:39 AM	56.2	62	51.7	76.4
6:28:54 AM	52.2	54.1	51.4	69
6:29:09 AM	50.7	52.2	50.1	67.9
6:29:24 AM	50.7	51.3	50.3	68
6:29:39 AM	50.7	51.5	50.3	67.8
6:29:54 AM	50.3	51.1	49.8	66.1
6:30:09 AM	50.7	54.3	49.8	73.4
6:30:24 AM	52.1	61	49.9	73.5
6:30:39 AM	57.3	62.6	50.6	73.2
6:30:54 AM	52.6	54.7	51.1	69.3
6:31:09 AM	52.9	56.8	50.8	76.8
6:31:24 AM	52.5	54.6	50.9	69.3
6:31:39 AM	50.6	52.1	49.8	67.3
6:31:54 AM	50.1	50.9	49.7	64.9
6:32:09 AM	50.1	50.7	49.7	65.2
6:32:24 AM	54.1	58.6	49.8	74.8
6:32:39 AM	54.2	56.7	51.4	77.5

Logged Data Chart

Sabana Village Project - Monitoring Station 4 Nighttime: Logged Data Chart



Calibration History

Date	Calibration Action	Level	Cal. Model Type	Serial Number	Cert. Due Date
9/6/2016 4:46:01 AM	Calibration	114.0			

APPENDIX 4: FIELD NOTES





Noise Survey Field Notes Form

Company Name: LCS Apartments
Project Name: Sabana Village Project
Project Location: Carolina, P.R. Ave Juan, P.R.
Calibrator Serial Number: AC300006293
Calibration Value: 114 dB

Nighttime Period

MS # 1 - 05:30 am - 06:00 am
 MS # 2 - 05:35 am - 06:05 am
 MS # 3 - 06:10 am - 06:40 am
 MS # 4 - 06:15 am - 06:45 am

Nighttime Measures

Equipment 1 Serial Number: BLN100003 - Meter #1

Equipment 2 Serial Number: BLP090006 - Meter #2

Monitoring Station (MS)	Location	Comments
MS # 1- Meter #1	East Side <u>5:29 AM</u>	
MS# 2 - Meter #2	South Side <u>6:01 AM</u>	

Monitoring Station (MS)	Location	Comments
MS # 3 - Meter #1	North Side <u>5:29 AM</u>	
MS# 4- Meter #2	West Side <u>6:01 AM</u>	

Notes:

*Take 1 photo by monitoring station

Weather: No rain events

Traffic: Low

Adyacent roads or street: _____

Other surroundings noise: People talking

Others: Dará acceso el guardia de seguridad, favor de indicar que pertenecen a Sharetech Group y que van a realizar un estudio de ruido.

Persona de contacto en caso de emergencia: Millie Colón (787-690-1142)

Hondynon (-contacto día estudio) - Victor Zavala
787-294-1051, 1049



Noise Survey Field Notes Form

Company Name: LCS Apartments
Project Name: Sabana Village Project
Project Location: Carolina, P.R. De que
Calibrator Serial Number: AC300006293
Calibration Value: 114 dB

Daytime

MS # 1 - 7:05 am - 7:35 am
 MS # 2 - 7:10 am - 7:40 am
 MS # 3 - 7:45 am - 8:15 am
 MS # 4 - 7:50 am - 8:20 am

Daytime Measures

Equipment 1 Serial Number: BLN100003 - Meter #1
Equipment 2 Serial Number: BLP090006 - Meter #2

Monitoring Station (MS)	Location	Comments
MS # 1- Meter #1	East Side <u>7:32 AM</u>	
MS# 2 - Meter #2	South Side <u>8:04 AM</u>	

Monitoring Station (MS)	Location	Comments
MS # 3 - Meter #1	North Side <u>7:33 AM</u>	
MS# 4- Meter #2	West Side <u>8:08 AM</u>	

Notes:

*Take 1 photo by monitoring station

Weather: No rain events

Traffic: Low

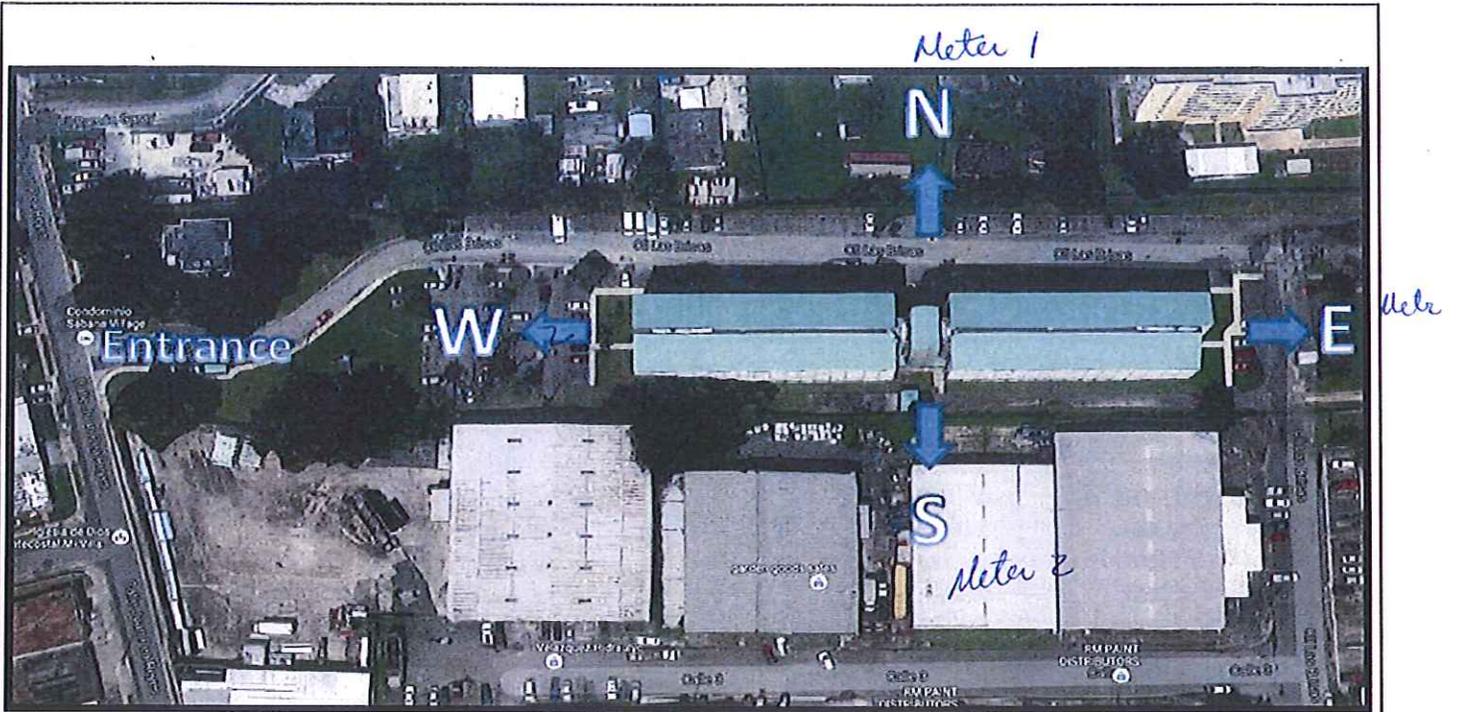
Adjacent roads or street:

Other surroundings noise: People talking, music near sound level meter.

Others: Dará acceso el guardia de seguridad, favor de indicar que pertenecen a Sharetech Group y que van a realizar un estudio de ruido.

Persona de contacto en caso de emergencia: Millie Colón (787-690-1142)

Croqui



**NOISE STUDY
MITIGATION PLAN**

CERTIFICACIÓN DE MITIGACIÓN DE SONIDO

PROYECTO: "Modernization of Sabana Village Apartments"

19 de septiembre de 2016

Yo, Miguel A. San Miguel, ingeniero profesional con licencia # 11838, certifico que se realizó un estudio de sonido para el proyecto de Modernización de Sabana Village Apartments, localizado en la calle Juan N. Peña Reyes del barrio Sabana Llana de San Juan. El resultado del mismo indica que sobrepasó el nivel aceptable por tan sólo 1.9 decibeles (66.9 de 65). Certifico que la modernización en asunto conlleva ventanas nuevas en todos los apartamentos y oficinas, "weather strip", que tienen un sellado que aumenta el "STC rating" ("Sound Transmission Class") de las mismas. También se instalan puertas nuevas en todos los apartamentos y oficinas, de madera semi-sólida, lo cual también bloquea significativamente el sonido. Además, el elemento que bloquea la visión en área de estacionamiento y entradas (razón de 1:1) también reduce el sonido que entra por dichas áreas. Certifico que el proyecto incorpora elementos de mitigación de sonido, en cumplimiento con HUD's "Code of Federal Regulations" para proyectos de modernización y rehabilitación.

Miguel Angel
San Miguel
Torres

Digitally signed by Miguel Angel San Miguel Torres
DN: c=US, st=Puerto Rico, o=Colegio de Ingenieros y Agrimensores de Puerto Rico, title=11838 PE, cn=Miguel Angel San Miguel Torres,
email=masanmiguel@bloesign.com
Date: 2016.09.17 16:29:46 -0400

Miguel A. San Miguel, P.E., M.E.M.
Lic. P.E. # 11838



19 de septiembre de 2016

Ing. José O. Ortíz
Caribe General Contractors
Ponce, PR

RE: Sabana Village – Rfo Piedras

Estimado Ing. Ortíz:

Sirva la presente para certificarle que todos los productos sometidos por Air Master, Inc. para sus proyectos cumplen o exceden los requisitos establecidos por el Código de Edificación para Puerto Rico (PRBC 2011, IBC 2009). Todos los materiales son manufacturados en acorde a pruebas de laboratorio que realizamos como parte de nuestro programa de mejoramiento continuo. Esto incluye el método de instalación, el cual por nuestra experiencia de más de 40 años en la industria del Aluminio y Cristal, realizamos para exceder los códigos vigentes.

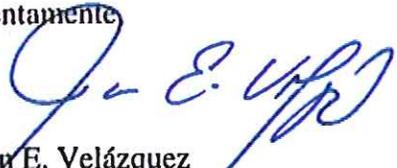
Adjunto hojas de catalogo y prueba de un laboratorio independiente que certifica el comportamiento de nuestra ventana Clásica, en su versión "Full Weather Strip" de aluminio a presiones de viento e infiltración de agua,. En el caso específico de las presiones de viento, verá que la ventana obtuvo un resultado de 70PSF (Pounds per Square Foot) en presión positiva que traducido a millas por hora equivale a vientos de 165 millas por hora aproximadamente y hace nuestra ventana resistente a tormentas. (Ver reporte de Fenestration Testing Lab).

$$\frac{70 \text{ PSF}}{.00256} = 165.36 \text{ MPH}$$

El sistema de sellado con goma y/o felpa tanto en los ventiladores, como en el perímetro del marco permiten a esta ventana un sellado superior a la ventana tradicional haciéndola una de las mas eficientes en cuanto a aislamiento de sonido.

Esperamos que esta información les sea de utilidad y de requerir información adicional o si tiene alguna duda, por favor no dude en contactarnos; estamos para servirles.

Atentamente


Juan E. Velázquez
Director de Servicios Técnicos
Air Master, Inc.

cc: Francisco Ramis

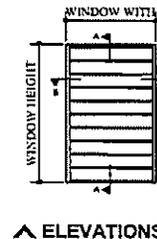
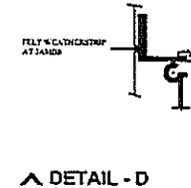
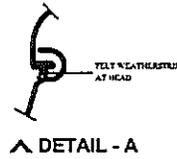
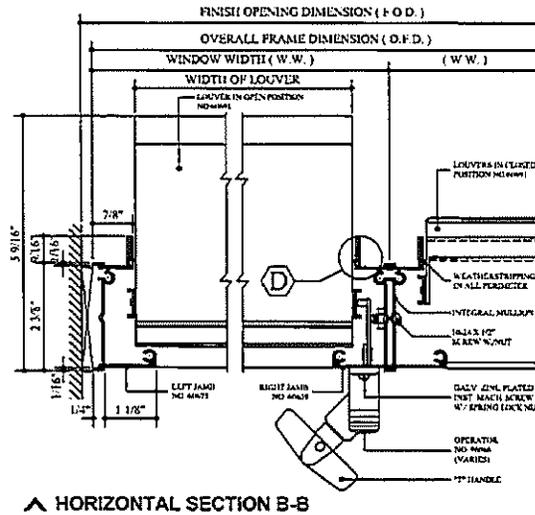
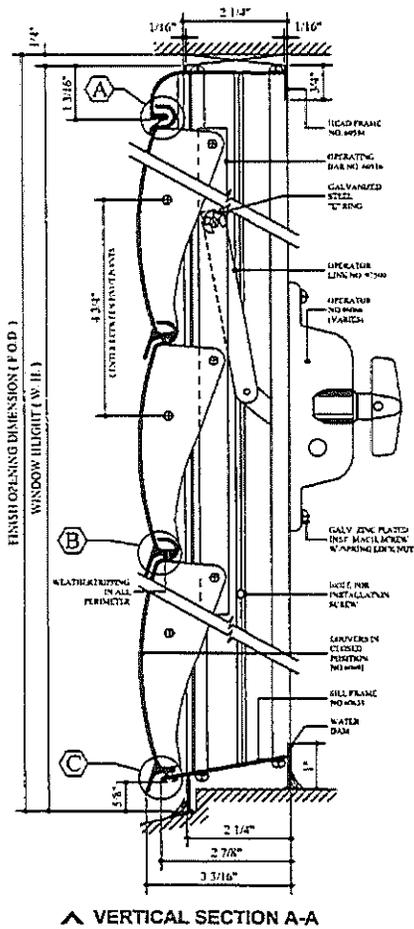


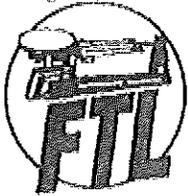
TABLE OF HEIGHTS			
LOUVERS	HEIGHT	LOUVERS	HEIGHT
2	11 3/4"	12	59 1/4"
3	16 1/2"	13	64"
4	21 1/4"	14	68 3/4"
5	26"	15	73 1/2"
6	30 3/4"	16	78 1/4"
7	35 1/2"	17	83"
8	40 1/4"	18	87 3/4"
9	45"	19	92 1/2"
10	49 3/4"	20	97 1/4"
11	54 1/2"	21	102"

STANDARD WIDTHS	
9" TO 36"	

ABRIDGED SPECIFICATIONS	
MATERIAL:	6063-T5 ALUMINUM EXTRUSIONS AT HEAD, SILL, JAMBS AND LOUVERS.
FINISH:	POLYESTER POWDER COATING BAKED AT 400° AFTER A CLEANING AND ETCHING PROCESS.
HARDWARE:	OPERATOR, "T" HANDLE TYPE, WINDOWS OVER 45" SHALL HAVE TWO OPERATORS.
TOLERANCES:	ALUMINUM EXTRUSIONS ARE SUBJECT TO STANDARD COMMERCIAL TOLERANCES.

NOTES
THIS DESIGN IS SUBJECT TO REVISIONS WITHOUT NOTICE.

PRODUCT NAME ALL ALUMINUM, JALOUSIE WINDOW, 0.062" CLASSIC MODEL, HD FULL WEATHERSTRIP. (FLAT)	DWG. NO. A-08 SCALE: 3/8" = 1"	DESIGNED DRAWN: J. VALARADO CHECK: RAFAEL FELIX APPRV.: J. VELAZQUEZ	DATED MAY-2013 MAY-2013 MAY-2012	MODEL AM CL. PV	PO Box 2097 Barceloneta, PR 00617 787.623.1800 airmasterpr.com	AIR MASTER windows and doors
--	---	---	---	--------------------	---	---------------------------------



Quality Accuracy Assurance

Fenestration Testing Laboratory, Inc.

848 West 18th Street Hialeah, Florida 33010 Phone: 305/885-7811 Fax 885-7728

Lab. Number 1326
File Number 95-148
October 26, 1995
Report Number 3
Page 1 of 2
L-1573

SPECIFICATION CONFORMANCE TEST REPORT

MANUFACTURER: Air Master Awning
ADDRESS: P. O. Box 177
Morovis, Puerto Rico 00687

SPECIFICATIONS: ANSI/AAMA 302.9-77
ANSI/AAMA 134.1

TEST SAMPLE SIZE: 3' 3/16" by 5' 0" high
SERIES: Clasica - Full Weatherstrip;
Aluminum Louvered Jalousie Window

DESCRIPTION OF SAMPLE TESTED

NO. & SIZE OF LOUVERS: Twelve, each, 34 1/2" by 5 1/2" high by 0.067" thick.

WEATHERSTRIPPING: Single pile with integral plastic fin at each frame jamb and all bottom rails of each louver. Single vinyl flap in frame head.

SEALANTS: Each frame corner, installation screws and each louver at each end sealed with white colored sealant.

OPERATORS & LOCATIONS: Two metallic roto operators at left frame jamb, each operating six louvers. One located at lower frame corner and one 7" from frame sill. Metallic slide bar at each frame jamb, secured to louvers with one rivet.

WEEPHOLES: None

MUNTINS: None

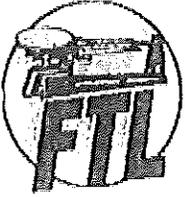
REINFORCEMENT: None

ADDITIONAL DESCRIPTION: Equal leg type frame. 1" high overall interior high sill flange. Each louver secured to frame with one rivet at each side.

UNIT INSTALLATION: Unit tested in 2 X 12 wood test buck using a 2 X 4 pressure treated wood buck strip, installed with a single row of No. 10 by 1 1/2" pan head sheet metal screws in frame head, sill and each frame jamb.

PERFORMANCE TEST RESULTS

Paragraph Number	Title of Test	Measured	Allowed
2.1.2	Air Infiltration Test (ASTM E283) at 1.57 psf	0.77 cfm/sq.ft.	1.50 maximum
2.1.3	Water Resistance Test: (ASTM E547) no leakage at	2.86 psf	2.86 minimum
2.1.4	Uniform Structural Load Test:		
	Exterior Load	70.0 psf	40.0 minimum
	Interior Load	60.0 psf	20.0 minimum



Lab. Number 1326
File Number 95-148
October 26, 1995
Report Number 3
Page 2 of 2
L-1573

continued:

Test Completed - October 24, 1995

Remark: This test report does not constitute certification of this product, but only that the above test results were obtained using the designated test methods and they indicate compliance with the performance requirements (paragraphs as listed) of the above referenced specifications.

Laboratory Technicians:
George Masip

PENESTRATION TESTING LABORATORY, INC.

Manny Sanchez
Manny Sanchez
President

✓2 - Air Master Awning

EXHIBIT B

PHASE I ENVIRONMENTAL SITE ASSESSMENT

FOR

SABANA VILLAGE APARTMENTS, LLC

CONDUCTED AT: SABANA VILLAGE
APARTMENTS, LOCATED AT #856 JUAN PENA
REYES STREET, RIO PIEDRAS WARD, SAN JUAN,
PUERTO RICO.

PROJECT: ZEM-19005

JANUARY 2019

PREPARED BY:
ZIMMETRY ENVIRONMENTAL MANAGEMENT CORP.
PO BOX 3545 BAYAMÓN, PR 00958
PHONE: 787.376.9010 FAX: 787.995.0005
WEB PAGE: WWW.ZIMMETRY.COM
EMAIL: INFO@ZIMMETRY.COM



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FIGURES

FIGURE 1. Site Location Map

FIGURE 2. Facility Site Map

FIGURE 3. UST Location Map

FIGURE 4. Topographic Map

FIGURE 5. Land Use Map

FIGURE 6. Geologic Map

APPENDIX LIST

- A. Legal Description
- B. Site Photographs and Historical Maps
- C. Interview Questionnaire
- D. EPA EnviroMapper Information
- E. Superfund CERCLIS List
- F. Enforcement & Compliance History Online (ECHO)
- G. EPA Toxic Release Information (TRI)
- H. Resource Conservation & Recovery Act (RCRA Info)
- I. EPA List of Brownfields and Grants Information
- J. EPA Radiation Information Database
- K. EPA Facility Registry System (FRS)
- L. Water Wells Log Map & EPA My Water Mapper
- M. EQB's Request of Information Letters & Documents
- N. Site Reconnaissance Sheet
- O. Qualifications of Environmental Professional

1. Summary

LCS Apartments Limited Partnership authorized and contracted the consulting services from Zimmetry Environmental (Zimmetry), to perform this *Environmental Site Assessment Phase I* in order to report whichever *Recognized Environmental Conditions (REC's)* are determined and identified at the commercial property located at #856 Juan Pena Reyes Street, Rio Piedras Ward, San Juan, Puerto Rico and identified as Sabana Village Apartments. Refer to **Figure 1**, for the site location map.

The objective of perform this *ESA - Phase I* at the property is to identify the range of contaminants, within the scope of Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) (42 U.S.C. §960) and petroleum products. The *ESA-Phase I* was performed in conformance with scope and limitations of ASTM designation E 1527-13 standard practice.

The *Environmental Site Assessment Phase I* has not identified known or suspected *Recognized Environmental Conditions (REC's)*, *Controlled Recognized Environmental Conditions (cREC's)*, *historical Recognized Environmental Conditions (hREC's)*, or evidence of conditions classified as "*de minimis*" at the subject property.

2. Introduction

2.1. Purpose

The purpose of the *Environmental Site Assessment Phase I* is to identify, to the extent feasible pursuant to the processes prescribed herein, *Recognized Environmental Conditions (REC's)* in connection with the property.

2.2. Detailed Scope-of-Services

LCS Apartments Limited Partnership authorized and contracted Zimmetry Environmental to perform this *Environmental Site Assessment Phase I* process and report the findings at the commercial property identified as Sabana Village Apartments located at #856 Juan Pena Reyes Street, Rio Piedras Ward, San Juan, Puerto Rico; this was done in order to complete the requirements for a commercial transaction. Refer to **Figure 1**, for the site location map.

This *ESA-Phase I* consists of four components, namely; records review, site reconnaissance, interviews and preparation of this report of findings. As further the described below the detailed scope of services:

- ♦ A review of available and pertinent historical and site records including aerial photos, topographic and geological maps.

Historical aerial photos obtained from the USGS EarthExplorer and or Google Earth web sites were reviewed as part of this *ESA-Phase I*. The aerial photos were reviewed in order to identify historical land uses at the site and at surroundings properties. Also, published information about the natural setting of the site was reviewed.

Information from the U.S. Environmental Protection Agency (EPA) and the Puerto Rico Environmental Quality Board (PREQB) were reviewed to determine if regulated facilities were located at or in the vicinity of the subject property.

Search of environmental databases provided by Enforcement and Compliance History (ECHO) from the EPA databases were evaluated.

- ♦ A site reconnaissance of the subject property was performed.
- ♦ Interviews with personnel, owners, operators, custodians, neighbors or guardian, as available, were performed.
- ♦ Review of lease deed, title abstracts and/or property deed, if provided to Zimmetry Environmental by the client.

2.3. Significant Assumptions

- ♦ The legal description or area used in this report is assumed correct. The Legal Description referred to and cited in this report relates to the one depicted on partial copy deed.
- ♦ Zimmetry has made no survey of the property and no responsibility is assumed in connection with such matters. Sketches in this report are included only to assist the reader in visualizing the property.
- ♦ Information furnished by others assumed true, correct and reliable. A reasonable effort has been made to verify such information. However, Zimmetry assume no responsibility for its accuracy.

- ♦ It is assumed that the utilization of the land is within the boundaries or property lines of the property described and that there is no encroachment or trespassing unless noted within the appraisal report.

No other significant assumptions have been done during the performance of this *Environmental Site Assessment (ESA - Phase I)*.

2.4. Limitations and Exceptions

The *Environmental Site Assessment (ESA - Phase I)* objective at the property is to identify the presence or likely presence of any *Recognized Environmental Conditions (REC's)* in connection with the property. The *ESA-Phase I* was performed in conformance with scope limitations and exceptions of ASTM standard practice E 1527-13; developed and performed accordingly with all appropriated inquiries in conformance with the standards and practices as set forth in 40 CFR Part 312. Following are several non-scope considerations (section 13.1.5 of ASTM E1527-13) that users may want to assess in connection with the commercial property: asbestos-containing building materials, lead based paint, lead in drinking water, and regulatory compliance among others.

This report is in no way to be taken as a declaration of the legal status of the property herein mentioned. The information contained in this report has been gathered from field visits and evaluation of the available data at the compilation time. Although, every reasonable attempt has been done to ensure the accuracy of the information contained herein, it is understood that we cannot guarantee any data or results of erroneous nature obtained from other sources. This evaluation was prepared in accordance with the ASTM standard practices: E 1527-13 (*ESA Phase I*) and the information provided by the Client as well as on the requirements, parameters and restrictions presented to Zimmetry Environmental. Any exception or deletions from this practice are described in Section 11 of this report. The interpretations and judgments were done based on the

evaluated data are the result of the best professional practice, in accordance with obtained field data.

Clients must be warned that it is possible that the mention of a data gap, while believed to be insignificant, could uncover an REC. It is important, that the client unwilling to take the risk of potentially missing a REC, should perform the activity that will alleviate the data gap.

2.5. Special Terms and Conditions

The *ESA-Phase I* was performed in conformance with scope and limitations of ASTM designation E 1527-13 standard practice.

The following terms and conditions were agreed for the proper completion of this assessment:

- ♦ The client will provide the right of entry to the project site in order to complete the work.
- ♦ If changes to the *Phase I* are incorporated by the client, these should be clearly specified in an engagement letter, contract or purchase order.
- ♦ Tests or other sampling activities are not part of this *Phase I*, if needed those will be performed on a separate report and only after Client's approval.
- ♦ The Client is responsible for obtaining those authorizations to allow Zimmetry Environmental, its agents, subcontractors and representatives, to have access to the site property and buildings thereon at reasonable times throughout contract performance by Zimmetry Environmental. Zimmetry Environmental will take reasonable precautions to minimize damage to the site from use of equipment (if applicable), but unavoidable damage or alteration may occur and Client agrees to assume responsibilities for such unforeseen situation.

- ♦ The Client and the Consultant agree that, to the fullest extent permitted by law, the Consultant shall not be liable to Client for special, indirect, or consequential damages whatsoever, whether caused by the Consultant's negligence, errors, omissions, strict liability, breach of contract, breach of warranty, or other cause or causes whatsoever.

2.6. User Reliance

In conducting this *Environmental Site Assessment (ESA - Phase I)*, as recommended by ASTM E-1527-13, Zimmetry Environmental is not required to verify independently the information provided but may rely on the information provided unless it is obvious that certain information is incorrect based on other information obtained in the *Phase I*.

This *Environmental Site Assessment (ESA - Phase I)* was conducted solely for the purpose of providing information to the client. The findings, opinions, conclusions, and other information provided in this report may be release by third parties. However, third parties shall have no right to rely on any information contained in this report, and Zimmetry Environmental shall have no liability to third parties in any manner whatsoever.

3. Site Description

3.1. Site Location and Legal Description

The commercial property is located at #856 Juan Pena Reyes Street, Rio Piedras Ward, San Juan, Puerto Rico (Refer to Figure 1). The San Juan municipality located in the Northern region of the island, North of Aguas Buenas and Caguas, South of the Atlantic Ocean, East of Guaynabo, and West of Carolina & Trujillo Alto.

At the time of preparation of this document, copy of the property's Legal Description was provided by the client (refer to Appendix A).

"---RUSTICA: Parcela de terreno al lado Norte de la carretera de Rio Piedras a Carolina en el barrio Sabana LLana de Rio Piedras, con una cabida superficial de 1 hectáreas, 96 acres, 46 centiáreas y 36 miliáreas equivalentes a 5 cuerdas, dividida por una línea recta desde el Este hacia el Oeste, tomando dicho punto en la mitad de la colindancia Este de la finca antes descrita en línea recta hasta el Oeste, dividiendo dicha finca en dos partes iguales de 5 cuerdas cada una, correspondiendo al Sr. Julio E. Capifali la parcela más hacia el Sur de la indicada división y con parcela de donde se hace esta segregación propiedad de Ramón Garay; Este con Verna Lantz, antes, hoy Autoridad de Tierras de Puerto Rico y por el Oeste con camino que va hacia la Laguna San José.-----"

3.2. Site and Vicinity General Characteristics

The character of the immediate property neighbourhood is predominantly a residential/commercial area. Residential buildings for public housing are found in the surrounding areas, along with residential communities. Also, Sabana Llana Industrial Park, was identified at the southern boundary of the subject property. Refer to site photographs in Appendix A.

3.3. Current Use of Property

At the moment of this assessment was performed on January 16, 2019, the property consisted of a six-story apartment building dedicated to low income housing project. The development provides transitional housing for formerly homeless/at-risk individuals. The overall parcel lies 19,646.36 square meters. For a detailed site description please refer to Section 6.2, to the Facility Site Map in Figure 2 and photographs in Appendix A.

3.4. Current Uses of the Adjoining Properties

The site bounds to its North with the public housing development Jardines de Sellés, along with several single-family residences. Juan Peña Reyes Street runs to the West and provides access to the site. Also, a PTCO property and Las Delicias Development were also identified adjacent to the West. To the South, Sabana Llana Industrial Park was identified. This industrial park consisted of several light industrial activities. Some of the identified adjoining industries were: J. Saad Nazer, Inc., Garden Goods Sales, Velazquez, Hydraulic Service, Inc., and RM Paint Distributors. Adjoining to the East, #5 Street was identified, in addition to the Reparto Sevilla residential area. Photos are included in Appendix A.

4. User Provided Information

4.1. Title Records

Title records were provided by LCS Apartments Limited Partnership. To review the record, please refer to Appendix A.

4.2. Environmental Liens

At present time, the study site was not in operation and no indication of evidence of environmental liens associated with the subject property was found. This statement is based on the information gathered from the interview for this assessment and information obtained from other sources. See the User Questionnaire in the Appendix B.

4.3. Specialized Knowledge

There is no specialized knowledge or experience that can be use as material to *Recognized Environmental Conditions* (REC's) in connection with the property according to the information gathered. See the User Questionnaire in the Appendix B.

4.4. Commonly Know or Reasonably Ascertainable Information

There is no commonly known or *reasonably ascertainable* information that can be use as material to *Recognized Environmental Conditions* in connection with the property. See the User Questionnaire in the Appendix B.

4.5. Owner, Property Manager and Occupant Information

According to the legal description by the client, the property is owned by LCS Apartments Limited Partnership. At the moment of this assessment was performed on January 16, 2019, the property was in operation. Refer to Section 3.1 for more details of the legal description.

4.6. Reason for Performing *Phase I*

The intention of perform this *ESA - Phase I* at the property is to identify the range of contaminants within the scope of Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) (42 U.S.C. §960) and petroleum products.

The *ESA-Phase I* was performed in conformance with scope and limitations of ASTM designation E 1527-13 standard practice. Which objective is to identify, to the extent feasible pursuant to processes prescribed herein, *Recognized Environmental Conditions (REC's)* in connection with the property.

5. Records Review

5.1. Standard Environmental Record Sources

5.1.1. Environmental Protection Agency (EPA)

5.1.1.1. EPA EnviroMapper Information

Information from the EPA EnviroMapper Information System data was reviewed. Two (2) EPA-Regulated Facilities for Water were identified in the searched area, within a one-mile radius distance or less from the study site, based on data extracted on January 18, 2019. Balcones de San Juan Wastewater Collection System and Max Chemical Inc. are not adjacent to the subject site. Refer to the Appendix D for the EPA EnviroMapper information System.

Two (2) EPA-Regulated Facilities for Toxics were identified in the searched area, within a one-mile radius distance or less from the study site, based on data extracted on January 18, 2019. Max Chemical Inc., and Pamcor Inc. are not adjacent to the subject property or have current violations. Refer to the Appendix D for the EPA EnviroMapper information System.

Eleven (11) EPA-Regulated Facilities for Wastes were identified in the searched area, within a one-mile radius distance or less from the study site, based on data extracted on January 18, 2019. These facilities are not adjacent to the subject property or have current violations: Max Chemical Inc., Pamcor Inc., Boyle Midway Division, Caribe General Electric Product, Caribe Rebuilders, Hospital San Francisco, Kercadó Auto Repair, Motors & Parts Manufacturing, Pagan Auto Repair, Puma S/S 335 (former Texaco S/S), and Shell S/S 0655. Refer to the Appendix D for the EPA EnviroMapper information System.

5.1.1.2. Superfund CERCLIS List

Information from the EPA Superfund CERCLIS List was obtained by using the EPA data information system. Facilities were not identified within a one-mile radius distance or less from the study site, based on data extracted on January 18, 2019. Refer to Appendix E, for the Superfund CERCLIS List.

5.1.1.3. Enforcement and Compliance History (ECHO)

Information from ECHO was retrieved and included in Appendix F. Thirty-three (33) facilities were identified in the reviewed study area under zip code 00924, based on the data extracted on January 18, 2019. None of these facilities are adjacent to the subject site.

5.1.1.4. EPA Toxic Release Inventory (TRI)

Information from the EPA's Toxic Release Inventory (TRI) facilities information system data was reviewed. Two (2) facilities were identified in the reviewed study area or within one-mile radius distance from the site based on the data extracted on January 18, 2019. Max Chemical Inc., and Pamcor Inc. are not adjacent to the subject property or have current violations. Refer to Appendix G, for the TRI Search Results.

5.1.1.5. Resource Conservation and Recovery Act (RCRA)

Information from the EPA RCRA was obtained by using the EPA data information system, based on data extracted on January 18, 2019. Eleven (11) EPA-Facilities reporting to RCRA were identified within approximately one-mile radius distance or less from the study site. These facilities are not adjacent to the subject property or have current violations: Max Chemical Inc., Pamcor Inc., Boyle Midway Division, Caribe General Electric Product, Caribe Rebuilders, Hospital San Francisco,

Kercadó Auto Repair, Motors & Parts Manufacturing, Pagan Auto Repair, Puma S/S 335 (former Texaco S/S), and Shell S/S 0655. Refer to Appendix H, for the RCRA Search Results.

5.1.1.6. EPA List of Brownfield Grant Information

Information was obtained by using the EPA data information system. Facilities were not identified or displayed over a one-mile radius distance from the study site according to the List Results extracted on January 18, 2019. No cleanups data was obtained by using the EPA data information system. Refer to Appendix I.

5.1.1.7. EPA Radiation Information Database

Information from the EPA's Radiation Information Database (RADINFO) facilities information system data was reviewed. Facilities in the study area were identified within one-mile radius distance from the study site. No facilities were identified in the study area, based on data extracted on January 18, 2019. Refer to Appendix J.

5.1.1.8. Consolidated Facility Information

Information from the EPA Facility Registry System (FRS) was obtained by using the EPA data information system. Sixty-six (66) facilities were identified under zip code 00924, based on data extracted on January 18, 2019. None of these facilities is adjacent to the subject site. However, two (2) of them are located within one-mile radius of the property: Max Chemical Inc., and Jardines de Sellés. Refer to Appendix K for the Facility Registry System query results.

5.2. Additional Environmental Record Sources

5.2.1 Department of Natural Resources and Environment (DRNA), U.S. Geological Survey (USGS) and the PR Highway Authority

According to the USGS NWIS Mapper, monitoring wells were not identified in the searched area. Two (2) PRASA supply wells within one-mile radius of the study site were identified. Twelve (12) private wells were identified within approximately one-mile radius of the study site based on the data base information reviewed. Wells were not identified at the site during the site inspection visit. Refer to Appendix K for wells location.

5.2.2. Environmental Quality Board (EQB)

5.2.2.1. UST Program Documents

Information related to the study site was requested to the UST Program on letter dated January 14, 2019. The information requested was not available or provided by this Office, at the time that this *Phase I* was completed. Refer to Appendix M. Nevertheless, the Water Quality Area maintains a list of registered underground storage tanks in Puerto Rico. Upon review of the list, no underground storage tanks exist within the property.

5.2.2.2. EQB UST Lists

The review of the EQB UST List–May 2008 (Registered Underground Storage Tanks data available in the EQB-UST Program) indicated four (4) UST facilities in an area of approximately half-mile radius distance or more from the study site. Refer to Figure 3, UST Location Map.

None of these facilities are included in the EQB Active Sites Leaking UST (Underground Storage Tank) List of 2018, and one (1) of them in the EQB Inactive Sites Leaking UST List of 2018. Refer to the following tables.

FACILITIES FROM THE EQB OFFICIAL 2008 UST LIST

FACILITY NAME	UST NUMBER	STATUS	OWNER	LOCATION
Antigua Coca-Cola	2-860009	Amended	Antigua Coca-Cola	De Diego Ave. San Juan, PR
Shell S/S 0655	2-860938	Amended	Sol Puerto Rico	#1155 De Diego Ave. San Juan, PR
Victory S/S	2-910161	Amended	Victor Torres	Simon Madera Ave. San Juan, PR
Puma S/S (EX-Texaco S/S 228)	2-861751	Amended	Puma Energy	De Diego Ave. & PR-181 San Juan, PR

FACILITIES INCLUDED IN THE EQB INACTIVE SITES LEAKING UST LIST 2010

FACILITY NAME	UST NUMBER	OWNER	RELEASE (YES OR NO)	DATE & HOW KNOWN
Shell S/S 0655	2-860938	Sol Puerto Rico	Yes	January 23, 2002 UST Removal

Notes: Facilities are located within one mile-radius distance from the study site. Facilities location are showed in Figure 3. Some names and owner identification facilities have not been updated or the record lists are not updated in the data base information system by the agency.

5.2.2.3. Environmental Emergency Response Office Program

Information related to the study site was requested from the Emergency Response Office Program on letter dated January 14, 2019. The information requested was not available or provided by this Office, at the time that this *Phase I* was completed. Refer to Appendix M.

5.2.2.4. Land Pollution Control Program

Information related to the study site was requested from the Land Pollution Control Office Program on letter dated January 14, 2019. The

information requested was not available or provided by this Office, at the time that this *Phase I* was completed. Refer to Appendix M.

5.3. Physical Setting Sources

5.3.1. General Topography

The property is part of the San Juan Quadrangle. The study site is located at #856 Juan Pena Reyes Street, Rio Piedras Ward, San Juan, Puerto Rico at latitude 18°27'14.01"N and longitude 66°04'24.56"W. Principally, this area of study has a low relief; in a radius distance of approximately 1 mile from the study property, the elevations range from 5 to 65 meter (above mean sea level). The property is located at approximately 25 meters above mean sea level. Quebrada Sabana LLana is located at approximately 900 meters southeast of the subject site. Reference: Topographic Map of the San Juan Quadrangle, 1969, Photo-revised 1982.

According to the Land Use Map of the area, the study site is located in the classification **Or** (recreational areas). Other areas surrounding the property are classified as **Ui** (non-developed areas inside urban zone), **P** (public), **Uh** (urban high density), **Cs** (commercial areas), among others. Refer to Figure 5.

5.3.2. General Geology

In general, the area is located in the northeastern part of the San Juan Quadrangle, in the **QTt**, Older Alluvial Deposits (Pleistocene and Pliocene). Clay, silty and sandy, mainly red or mottled red and light-gray. Includes Mucarabones Sand and San Sebastián Formation in area East of Rio Piedras. The thickness is variable but probably greater than 100 meter in places. Refer to the USGS Geologic Map of the San Juan Quadrangle (M.H. Pease & W. H. Monroe, 1977) in showed in Figure 6.

5.4. Historical Use Information on the Property and Adjoining Properties

5.4.1 Aerial Photos

Aerial photos regarding the site and nearby areas, were requested to the USGS EarthExplorer, and or Google Earth web sites. Photos from 1977 to 2018 were compared for the general description of the area. Refer to Aerial Photographs included in Appendix A.

1977 - Due to the resolution of the photograph, the status of the property cannot be identified. Nevertheless, the surrounding areas of the site are highly developed.

1994 - The site seem to be mostly vacant with some structures on the Northwest borderline.

2002 - The current property features can be identified on this photograph, apartment building, parking lot and basketball court.

2006 - The only visible change identified is a greenhouse located next to the basketball court.

2010 - 2018 - Significant changes cannot be identified at the site or adjacent areas.

6. Site Reconnaissance

The property was visited on January 16, 2019 for site reconnaissance. The purpose of this visit was to observe the site and surrounding land uses, and to identify potential sources of environmental impairment, if any. The observations were documented on the Site Reconnaissance Sheet; please refer to Appendix M. Photographs taken during the site reconnaissance are included in Appendix A. The following sub sections details the observations done during the site visit.

6.1. Methodology and Limiting Conditions

The methodology used for the site reconnaissance consisted of walk around the property.

6.2. Site Description

The study site was a commercial property located at #856 Juan Pena Reyes Street, Rio Piedras Ward, San Juan, Puerto Rico. The subject property consisted 19,646.36 square meters commercial lot with a six-story apartment building dedicated to low income housing project. The development provides transitional housing for formerly homeless/at-risk individuals and consisted of 160 apartments units. The ground floor houses offices for administration and medical staff, separate exams, file, conference and mail rooms, and office, kitchen and common areas. Also, on this floor, an emergency electric generator was observed at the site. Next to the generator a diesel AST (550 gallons) was identified inside a concrete dike. A basketball court and a greenhouse were also identified at the property premises.

During the site visit, a checklist including field observations was completed (refer to Appendix M) and several photographs (refer to Appendix A) were obtained from outside the property premises.

6.3. Exterior Observations

6.3.1. Pits, Ponds or Lagoons

At the moment of the site reconnaissance, pit, ponds or lagoons were not observed at the property.

6.3.2. Stained Soil or Pavement

At the moment of the site reconnaissance, stained soil or pavement was not identified at the site.

6.3.3. Stressed Vegetation

At the moment of the site reconnaissance, stressed vegetation was not observed at the property.

6.3.4. Solid Waste

At the moment of the site reconnaissance, solid waste was not identified at the property.

6.3.5. Waste Water

At the moment of the site reconnaissance, no waste water was observed at the property.

6.3.6. Wells

At the moment of the site reconnaissance, wells were not observed inside the study property premises.

6.3.7. Septic Tanks

At the moment of the site reconnaissance, septic systems were not identified at the property.

6.3.8. Above Ground Storage Tanks

At the moment of the site reconnaissance, a diesel AST (550 gallons) was identified inside a concrete dike over the ground floor, next to the emergency electric generator. Refer to photographs in Appendix B.

6.3.9. Odors

At the moment of the site reconnaissance, odors were not detected at the property.

6.3.10. Drums

At the moment of the site reconnaissance, six (6) empty plastic drums were identified at the subject property near the electric generator area. Refer to photographs in Appendix B.

6.3.11. PCB's

At the moment of the site reconnaissance no PCB's transformers were observed at the property.

6.4. Interior Observations

6.4.1. Heating/Cooling

At the moment of the site reconnaissance, a central air conditioning system was identified at the property. Refer to photographs in Appendix B.

6.4.2. Stains or Corrosion

At the moment of the site reconnaissance, stains and corrosion were not observed at the property.

6.4.3. Drains and Sumps

At the moment of the site reconnaissance, drains and sumps were not observed at the property.

7. Interviews

The objective of interviews is to obtain information indicating *Recognized Environmental Conditions (REC's)* in connection with the property.

7.1 Interview with Owner

At the moment of the performance of this *ESA Phase I*, the owner of the property was not available for interview. According to Mrs. Milly Colón, property manager, the property has been in operation since 2000 as Sabana Village Apartments. No information of specialized knowledge or experience that can be used as material to *Recognized Environmental Conditions (REC)* in connection with the property was identified. Refer to User Questionnaire included in Appendix B.

8. Findings

We have performed a *Phase I Environmental Site Assessment (ESA)* in conformance with the scope and limitations of ASTM Practice E 1527-13 at the commercial property identified as Sabana Village Apartment and located at #856 Juan Pena Reyes Street, Rio Piedras Ward, San Juan, Puerto Rico and identified as Sabana Village Apartments. This section identifies findings in connection with the property resulted from the federal and local records reviewed, aerial photographs, interviews and site inspection:

- ◆ Information related to the study site was requested to the EQB's Emergency Response Office Program, and the Land Pollution Control Program on letters dated January 14, 2019. The information requested was not available or provided by this Office, at the time that this *Phase I* was completed. This fact is considered a *data gap*.
- ◆ Information related to the study site was requested to the EQB's, UST Program on letters dated January 14, 2019. The information requested was not available or provided by this Office, at the time that this *Phase I* was completed. Nevertheless, the Water Quality Area maintains a list of registered underground storage tanks in Puerto Rico. Upon review of the list, no underground storage tanks exist within the property.
- ◆ An inspection of the property was performed on January 16, 2019. The subject property consisted 787.15 square meter commercial lot with a six-story apartment building dedicated to low income housing project. The development provides transitional housing for formerly homeless/at-risk individuals and consisted of 160 apartments units. The ground floor houses offices for administration and medical staff, separate exams, file, conference and mail rooms, and office, kitchen and common areas. Also, on this floor, an emergency electric generator was observed at the site. Next to the generator a diesel AST (550 gallons) was identified inside a concrete dike. Six (6) empty plastic drums

were also identified near the generator area. A basketball court and a greenhouse were also identified at the property premises.

9. Opinion

Zimmetry Environmental has performed this *Environmental Site Assessment (ESA - Phase I)* within the scope and limitations of ASTM designation E 1527-13 standard practice at the commercial property identified as Sabana Village Apartments and located at #856 Juan Pena Reyes Street, Rio Piedras Ward, San Juan, Puerto Rico. The ASTM E1527-13 defines *Recognized Environmental Conditions (REC's)* as "*the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to the release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment.*" According with this definition, the assessment has revealed **no** evidence of conditions classified as *REC's* at the subject property.

The ASTM E1527-13 defines *historical Recognized Environmental Conditions (hREC's)* as "*a past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria establish by a regulatory authority, without subjecting the property to any required controls.*" According with this definition, the assessment has **no** revealed evidence of conditions classified as *hREC's* at the subject property.

The ASTM E1527-13 defines *controlled Recognized Environmental Conditions (cREC's)* as "*a recognized environmental condition resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority, with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls.*" According with this definition, the assessment has revealed **no** evidence of conditions classified as *cREC's* at the subject property.

The ASTM E1527-13 defines "*de minimis*" as a condition that generally does not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies". According with this definition, the assessment has revealed **no** evidence of conditions classified as "*de minimis*" at the subject property.

10. Conclusions

We have performed a *Phase I Environmental Site Assessment* in conformance with the scope and limitation of ASTM Practice E1527-13 at the commercial property identified as Sabana Village Apartments and located at #856 Juan Pena Reyes Street, Rio Piedras Ward, San Juan, Puerto Rico. Any exceptions or deletions from this practice are described in Section 2.0 of this report. This assessment has revealed **no** evidence of *Recognized Environmental Conditions (REC's)* in connection with the property.

11. Deviations

There are no deviations from the scope of services established for this *Phase I Environmental Site Assessment*.

12. Additional Services

LCS Apartments Limited Partnership authorized and contracted Zimmetry Environmental to perform this *Environmental Site Assessment Phase I* at the commercial property, located at #856 Juan Pena Reyes Street, Rio Piedras Ward, San Juan, Puerto Rico. This was in order to report whichever *Recognized Environmental Conditions (REC's)* were determined and identified at the property. There were no additional services requested by the client for the subject site included in this *Phase I* report.

13. References

Environmental Quality Board List of Underground Storage Tanks and Leaking Underground Storage Tanks, published on June 2008.

EQB Active Sites LUST List of 2018.

EQB Inactive Sites LUST List of 2018.

Google Earth 1994, 2002, 2006, 2010, 2015, and 2018 Aerial Photos of the Study Area.

Standard Practice for Environmental Site Assessments: Phase I Site Assessment Process E-1527-13, published by the American Society for Testing & Materials.

USEPA Envirofacts Information Data System.

USEPA Enviromapper Information Data System.

USGS EarthExplorer 1977 Aerial Photos of the Study Area.

USGS Geologic Map of the San Juan Quadrangle, M.H. Pease & W. H. Monroe, 1977.

USGS NWIS Mapper Information Data System.

USGS Topographic Map of the San Juan Quadrangle, 1969, Photo-revised 1982.

14. Signature of Environmental Professional

I declare that, to the best of my professional knowledge and belief, I meet the definition of *Environmental Professional* as defined in § 312.10 of 40 CFR 312, and I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. I have developed and performed the all appropriated inquiries in conformance with the standards and practices as set forth in 40 CFR Part 312.

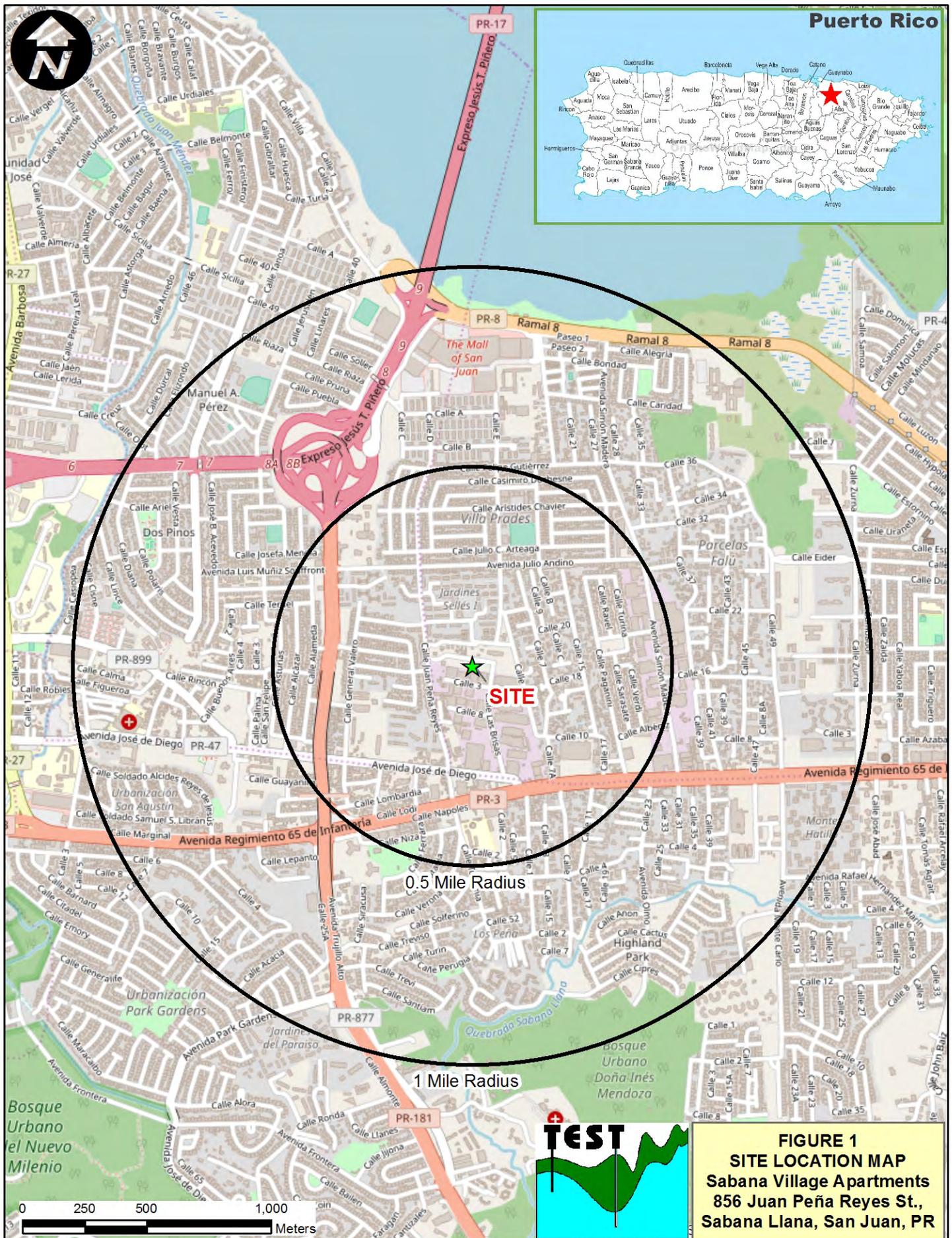


Álvaro Morales, PG, REPA
Environmental Professional

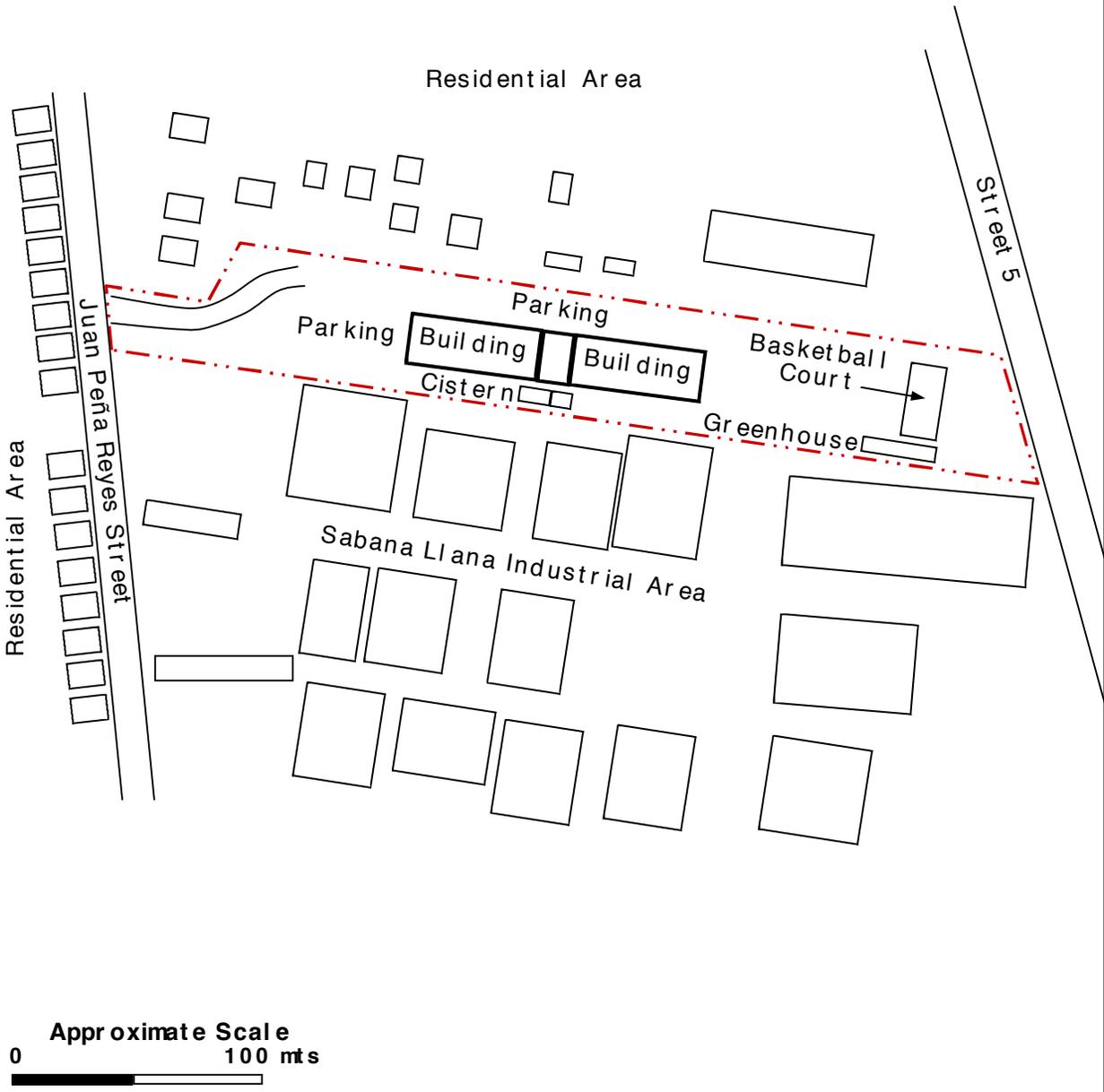


Harry Peña, MSEM
President
Zimmetry Environmental

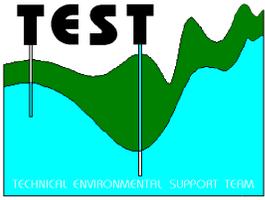
FIGURES



Reference: USGS and Highway Authority
 Scale 1:20,000

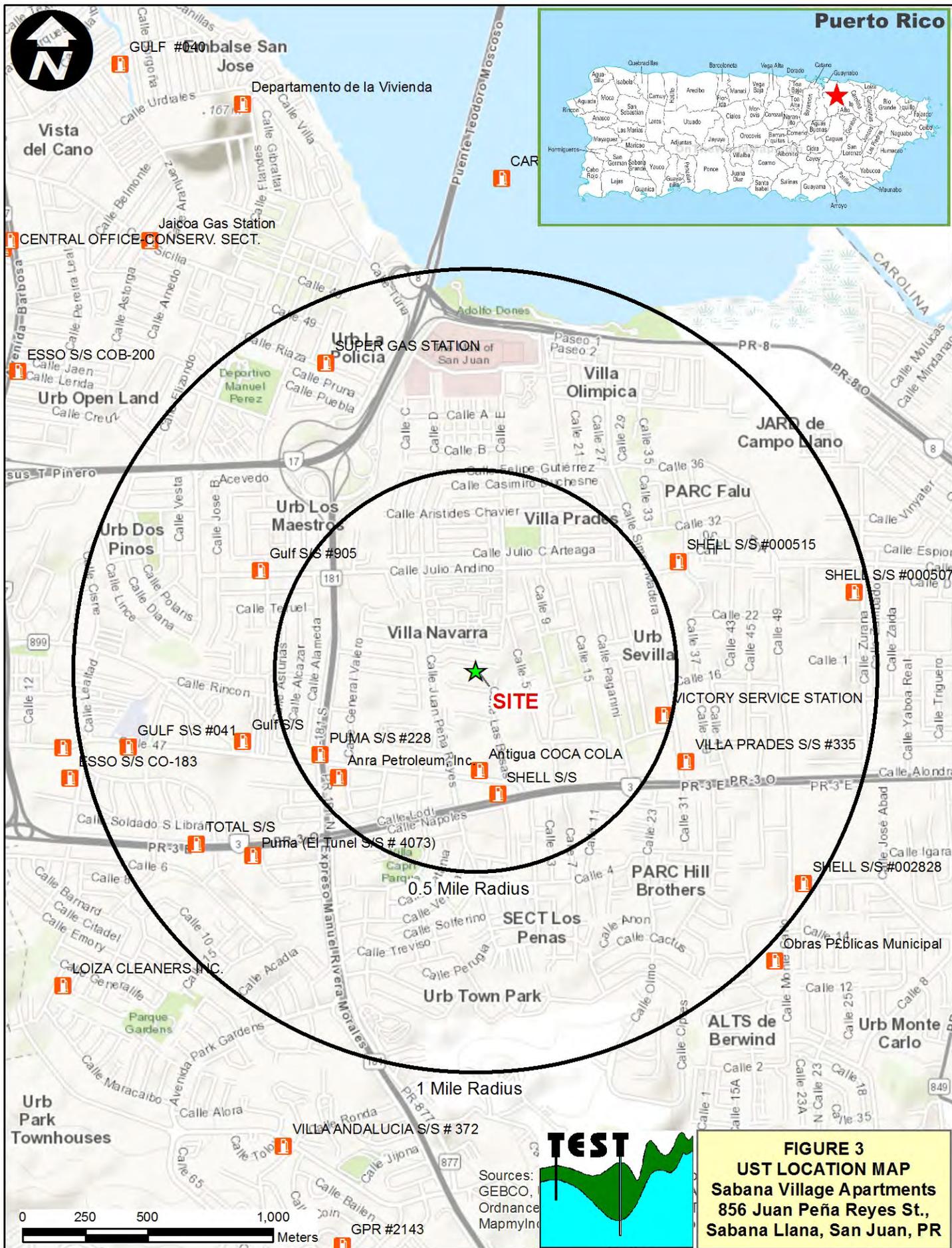


Approximate Scale
0 100 mts



TEST Environmental, Inc.
Environmental and GeoDrilling Services
P.O. Box 270311
San Juan, P.R. 00928
Tel. (787) 747-7645

FIGURE 2
FACILITY LOCATION MAP
Sabana Village Apartments
856 Juan Peña Reyes Street
Sabana Llana, San Juan, PR



Reference: USGS and Highway Authority
 Scale 1:20,000

APPENDIX A
LEGAL DESCRIPTION

---ESCRITURA NUMERO QUINIENTOS NOVENTA Y SIETE(597)---

-----DESCRIPCION DE REMANENTE-----
-----Y CESION DE DERECHOS Y ACCIONES-----

---En la ciudad de San Juan, Puerto Rico, a los veintinueve (29) días del mes de diciembre de mil novecientos noventa y siete (1997).-----

----- ANTE MI-----

---JOSE ERNESTO RIVERA REYES, Abogado y Notario Público de Puerto Rico, con residencia en Guaynabo, y estudio abierto en la ciudad de San Juan, Puerto Rico.-----

-----COMPARECEN-----

---DE LA PRIMERA PARTE: DOÑA CARMEN LYDIA ANGEL MIRANDA, también conocida como CARMEN LYDIA ANGEL, (seguro social número 584-58-7849), mayor de edad, casada con don Paul MacConnie Sandoz, propietaria y vecina de San Juan, Puerto Rico; a quien doy fe de haber identificado mediante su licencia de conducir del Estado Libre Asociado de Puerto Rico, la cual contiene su retrato y firma número Uno Cinco Tres Cuatro Siete Cuatro (153474); y DOÑA MARIA JOSEFA ANGEL MIRANDA, también conocida como MARIA JOSEFA ANGEL, (seguro social número 584-58-8064), mayor de edad, soltera, propietaria y vecina de San Juan, Puerto Rico; a quien doy fe de haber identificado mediante su Tarjeta de Identificación Electoral, la cual contiene su retrato y firma y mostró libre y voluntariamente, número Cero Cero Uno Seis Uno Cuatro Cinco (0016145); denominadas de ahora en adelante como la parte "CEDENTE".-----

---DE LA SEGUNDA PARTE: LCS APARTMENTS LIMITED PARTNERSHIP, (seguro social patronal número 66-0544478), una Sociedad limitada constituida a tenor con las leyes del Estado de Delaware, Estados Unidos de América, representada en este acto por su Socio General, LUCHA CONTRA EL SIDA, INC., (seguro social

patronal número 66-051-4937), una Corporación debidamente organizada y existente a tenor con las leyes del Estado Libre Asociado de Puerto Rico, representada en este acto por su Director Ejecutivo, DON RAMFIS JAVIER PEREZ RIVERA (seguro social número 583-29-9271), mayor de edad, soltero, propietario y vecino de San Juan, Puerto Rico; a quien doy fe de conocer personalmente y quien se encuentra debidamente autorizado para comparecer a este acto conforme surge de Resolución Corporativa suscrita por DON ABDIEL ISSAC ANGLERÓ CASANOVA, en su carácter de Secretario de la Corporación el día veintinueve(29) de Diciembre de mil novecientos noventa y siete (1997), denominada de ahora en adelante como la parte "CESIONARIA".-----

----DOY FE del conocimiento personal del compareciente de la SEGUNDA parte y de haber identificado a las comparecientes de la PRIMERA parte conforme a lo establecido en el Artículo Diecisiete C (17 C) de la Ley Notarial Vigente, y por sus dichos y mi creencia, la doy de su edad, estado civil, ocupación, número de seguro social, vecindad y representación que ostentan.-----

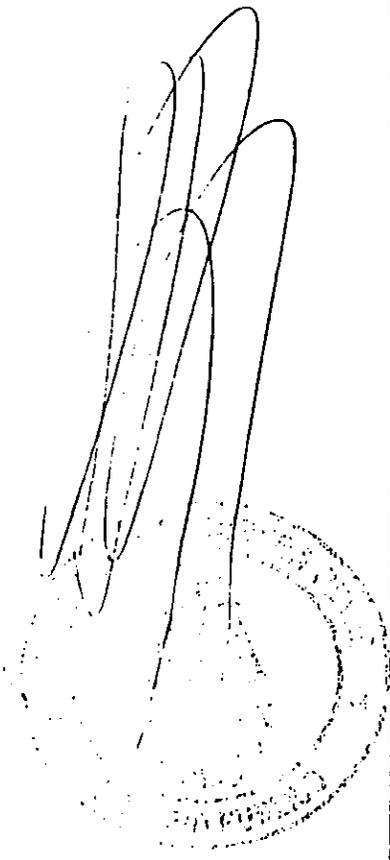
----Me aseguran tener, como a mi juicio tienen, la capacidad legal necesaria para llevar a cabo el presente otorgamiento, y en tal virtud libre y voluntariamente:-----

-----EXPONEN-----

----PRIMERO: Que la parte "CEDENTE" es dueña en comun pro indiviso, en carácter privativo y en pleno dominio del inmueble que se describe a continuación:-----

----"PARCELA de terreno al lado norte de la Carretera de Río Piedras a Carolina, en el Barrio Sabana Llana de Río Piedras, con una cabida superficial de Una (1) hectárea, Noventa y Seis (96) áreas. Cuarenta y Seis (46) centiáreas y Treinta y Seis (36) miliáreas, equivalentes a Cinco cuerdas (5.00 cdas.), dividida por una línea recta desde el Este hacia el Oeste, tomando dicho punto en la mitad de la colindancia Este de la Finca antes descrita en línea recta hasta el Oeste dividiendo dicha Finca en dos partes iguales de Cinco cuerdas (5.00 cdas.) cada

C. L. R. M.
M. J. P. R.
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una, correspondiendo al señor Julio E. Capifali la Parcela más hacia el Sur de la indicada división y con las siguientes colindancias: SUR, con Finca de Frida B. de Magriña; por el NORTE, con la otra Parcela de donde de hace esta segregación propiedad de Ramón Garay; por el ESTE, con Verna Lantz, antes, hoy Autoridad de Tierras de Puerto Rico; y por el OESTE, con Camino que va hacia la Laguna San José. En dicha Parcela enclavan varias estructuras, cinco (5) utilizadas como ranchones y otra como residencia."-----

-----INSCRITA al Folio Ciento Setenta y Uno (171), del Tomo Veintiuno (21), Sabana llana, Finca número Ochocientos Cincuenta y Seis (856) de Sabana Llana, en la Sección Quinta del Registro de la Propiedad de San Juan, Puerto Rico.-----

-----SEGUNDO: Que la parte CEDENTE adquirió título sobre el inmueble antes descrito de la siguiente manera: Cincuenta por ciento (50%) por partes iguales, por herencia testada de su padre, Mariano Angel Catalán, según Escritura de Testamento número Treinta y Seis (36), otorgada en San Juan, el día diecisiete (17) de abril de mil novecientos setenta y Nueve (1979), ante el Notario Diego Guerrero Noble; inscrita dicha participación en el Registro de la Propiedad, mediante Instancia al Registrador de fecha doce (12) de diciembre de mil novecientos ochenta (1980), bajo el afidávit número Trescientos Setenta y Nueve (379), ante la Notario Belén M. Guerrero Calderón, lo que motivó la inscripción Décimo Segunda (12da) de este inmueble, registrada el día veintidos (22) de octubre de mil novecientos ochenta y uno (1981), inscrita al folio ciento setenta y cinco (175), del folio veintiuno (21), Sabana llana. Cincuenta por ciento (50%) por adjudicación en división de bienes hereditarios con su madre, Carmen Miranda Catalán viuda de Angel, según surge de la Escritura número Catorce (14), otorgada en San Juan, el doce (12) de diciembre de mil novecientos ochenta (1980), ante la Notario Belén M. Guerrero Calderón, lo cual motivó la inscripción Décimo Tercera (13ra) y última del inmueble, registrándose el veintidós (22) de enero de mil novecientos ochenta y Uno (1981) e inscrito al folio doscientos treinta y dos (232) del tomo seiscientos cincuenta y seis (656) de Sabana

a. l. a. d. m.
M. J. G. R.

Llana.

-----TERCERO: El inmueble se encuentra libre de cargas y gravámenes.

-----CUARTO: -----DESCRIPCION DE REMANENTE-----

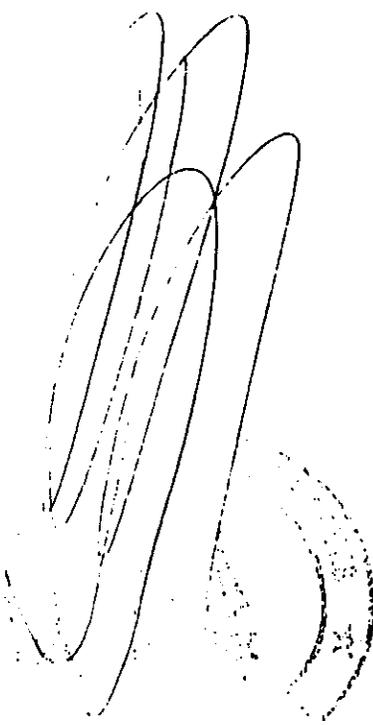
Que del inmueble antes descrito, fue expropiada y segregada una porción de terreno, equivalente a Mil metros cuadrados (1,000.00 m.c.) a favor del Estado Libre Asociado de Puerto Rico, la cual se encuentra debidamente inscrita al Folio Doscientos Ochenta y Uno (281) del Tomo Ochocientos Treinta y Tres (833), Finca número Treinta y Un mil Doscientos Cuatro (31,204) de Sabana Llana, en la Sección Quinta del Registro de la Propiedad de San Juan, Puerto Rico.

-----QUINTO Que luego de acreditar la expropiación y segregación de la Parcela antes descrita, a favor del Estado Libre Asociado de Puerto Rico, queda un Remanente del inmueble descrito en el párrafo PRIMERO de la presente Escritura, el cual se describe para efectos registrales de la siguiente manera:

-----"PARCELA de terreno al lado norte de la Carretera de Río Piedras a Carolina, en el Barrio Sabana Llana de Río Piedras, con una cabida superficial de Cuatro cuerdas con Setenta y Cuatro mil Quinientas Cincuenta y Ocho cien milésimas partes de otra (4.74558 cdas.), equivalentes a DIECIOCHO MIL SEISCIENTOS CINCUENTA Y DOS METROS CUADRADOS (18,652.00 M.C.). En lindes por el NORTE, con terrenos de la Sucesión Ramón Garay y con la Parcela segregada a favor del Estado Libre Asociado de Puerto Rico; por el SUR, con terrenos de Fomento Industrial de la Extensión Industrial Sabana Llana, antes conocida como la Finca de Frida B. de Magriña; por el ESTE, con Verna Lantz antes, hoy Autoridad de Tierras y la Comunidad Hill Brothers; y por el OESTE, con el Camino que va hacia la Laguna San José, hoy identificado como la Calle Juan Peña Reyes, mejor conocido como Camino Los Peña; y con parte de la Parcela que le fue segregada. En dicha Parcela enclavan varias estructuras, cinco (5) utilizadas como ranchones y otra como residencia."

-----SEXTO: Que respetuosamente se le solicita al Honorable Registrador de la Propiedad, tome conocimiento sobre la descripción del Remanente del inmueble descrito en el párrafo PRIMERO de la presente Escritura, luego de haber realizado la segregación de la Finca descrita en el párrafo CUARTO precedente, la cual ya se encuentra

*C. L. R. M.
M. J. A. P. R.*



debidamente inscrita.-----

-----SEPTIMO: Que la parte CEDENTE y la parte CESIONARIA, desean formalizar la adquisición del inmueble descrito en el párrafo QUINTO del presente otorgamiento, y para culminar el contenido específico de un Contrato de Opción suscrito entre las partes para la adquisición del mismo, lo llevan a efecto bajo las siguientes:-----

-----CLAUSULAS Y CONDICIONES-----

-----UNO: La parte CEDENTE en virtud del presente documento VENDEN, CEDEN y TRANSFIEREN en favor de la parte CESIONARIA, y ésta a su vez ACEPTA Y ADQUIERE todo derecho, que la parte CEDENTE posee sobre el Remanente del inmueble tal y como ha sido descrito en el párrafo QUINTO del presente otorgamiento, con todos sus usos, anejos y cuanto lo constituye, obligándose al saneamiento por evicción conforme a derecho.-----

-----Segundo: Que se verifica la presente Cesión de Derechos y Acciones Hereditarias por el precio alzado de SEISCIENTOS SETENTA Y CINCO MIL DOLARES (\$675,000.00) de cuya cantidad la parte CEDENTE acepta haber recibido con anterioridad a este acto al momento de haberse otorgado un Contrato de Opción a compra entre las partes, la suma de Treinta mil dólares (\$30,000.00) imputables al precio total del inmueble, y el balance, o sea, la cantidad de Seiscientos Cuarenta y Cinco mil dólares (\$645,000.00) la recibe en este acto en moneda del curso legal y corriente de los Estados Unidos de América o en su equivalente en cheque de gerente, bancario u oficial; por cuyas cantidades le otorga a la parte CESIONARIA la más formal y eficaz carta de pago.-----

-----TRES: El importe de las contribuciones territoriales que pesen sobre el inmueble y que correspondan a períodos anteriores y aquellas que se hayan impuesto hasta la fecha del veintinueve(29) de

diciembre de mil novecientos noventa y siete (1997), será asumido su pago por la parte CEDENTE; y aquellas que se impongan de esa fecha en adelante, serán de la absoluta responsabilidad de la parte CESIONARIA.-----

----CUATRO: Que la parte CESIONARIA entra en la inmediata posesión real y disfrute del inmueble que le ha sido cedido y trasferido a título de dueño, sin más actos ni requisitos que el presente otorgamiento.-----

----CINCO: Que la parte CESIONARIA acepta que ha inspeccionado el inmueble objeto de la compraventa y que ha adquirido el mismo en las condiciones en que se encuentra a la fecha de este otorgamiento, haciendose responsable la CEDENTE , de cualquier costo o gasto en que se incurra por la remoción de cualesquiera propiedad de inquilinos que antes ocupaban el inmueble y al presente se ha hecho la representación de que no lo ocupan.-----

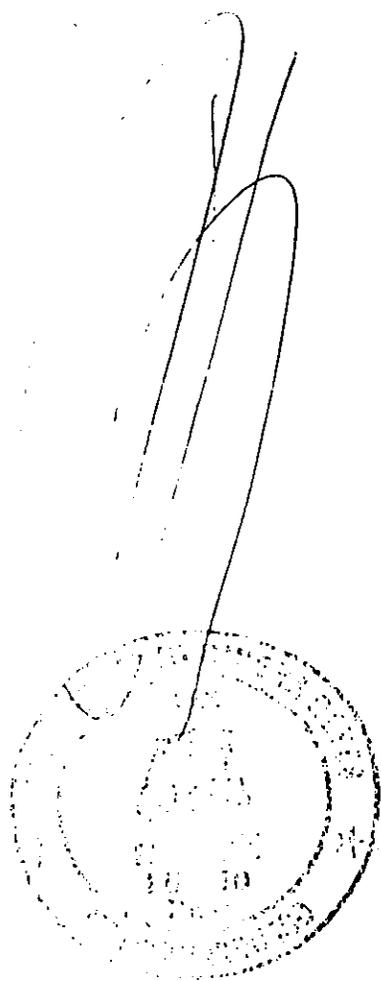
-----ACEPTACION-----

----Los comparecientes aceptan la presente escritura en todas sus partes, tal y como ha sido redactada por estarlo conforme a sus deseos e instrucciones.-----

-----ADVERTENCIAS-----

----Yo, el Notario, hice a los comparecientes las advertencias legales pertinentes a este acto, incluyendo la necesidad y conveniencia de realizar un estudio de título sobre el referido inmueble, el cual fue realizado por la Professional Services to the Lawyer Inc., con fecha del cuatro (4) de septiembre de mil novecientos noventa y siete (1997) , el cual manifiesta la parte CESIONARIA que le fue entregado y cuyo contenido manifiesta conocer a cabalidad.-----

C. A. M.
Prof. de la U.



LECTURA Y OTORGAMIENTO

Así lo dicen y otorgan ante mí, los comparecientes, luego de renunciar al derecho que les hice saber tenían para requerir la presencia de testigos instrumentales al acto.

Leída esta escritura por los comparecientes personalmente, se ratifican en su contenido y la firman estampando, además, las iniciales de sus nombres al margen izquierdo de todos y cada uno de los folios que componen la misma.

DOY FE de todo cuanto más afirmo o refiero en este Instrumento Público, el cual FIRMO, SIGNO, SELLO y RUBRICO.

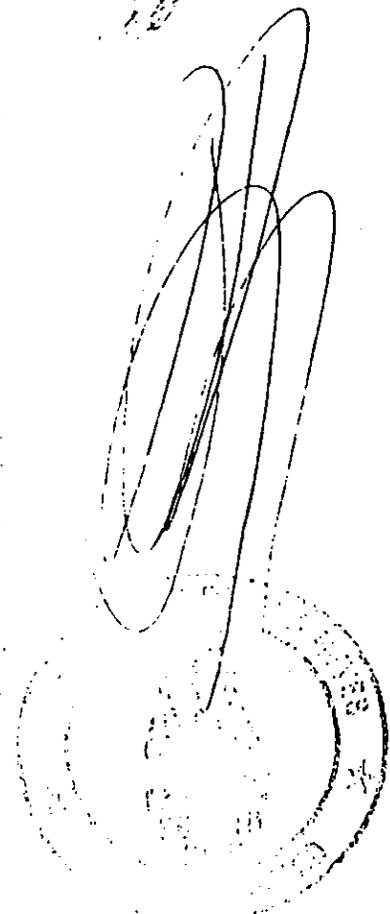
Carmen Lydia Rojas Miranda

Francisco José Rojas Miranda

Alfonso Rojas

[Signature]

*C. E. A. M.
M. J. L. R.*



MINUTA DE ASIEN TO DE PRESENTACION

*File
LCS Apartments
Limited Partnership
Escrituras*

Escrituras e Instancias:

Número de Escritura o Instancia **597**
Fecha de Escritura o Instancia **29-diciembre-1997**
Lugar de Otorgamiento **San Juan, Puerto Rico**
Nombre del Notario **Lcdo. José E. Rivera Reyes**
Número de Colegiado o de Notario **7031**

Distrito de San Juan

Documento Judicial:

Tipo de Documento
[] Sentencia o Resolución [] Demanda
[] Orden y Mandamiento [] Otros
Tribunal , Sala de
Núm. Caso , Sobre
Demandante
Demandado
Ex Parte

Distrito

441

*67
14 Enero 98*

Documento Administrativo:

Tipo de Documento
Expedido por
Fecha de Expedición

Distrito

DATOS COMUNES A TODOS LOS DOCUMENTOS

Lugar de ubicación de la(s) finca(s) **Barrio Sabana Llana de Río Piedras, Puerto Rico**

Número(s) de la(s) finca(s) **Finca número 856, Tomo 21, Folio 171**

Acción Solicitada Inscribir Cancelar Anotar

Transacción(es) **DESCRIPCION DE REMANENTE Y CESION DE DERECHOS Y ACCIONES**

A favor de **LCS APARTMENTS LIMITED PARTNERSHIP (RAMFIS JAVIER PEREZ RIVERA)**

Valor **\$675,000.00**

Documentos Complementarios: *ACTA Protocolización Sociedad Especial - Resolución Comisaria*
Comprobantes y Sellos: # de Serie *11-7816174* Valor *12,670.00*
11-7816175 *10.00*
RE 12373415 *50*

Total *\$2,670.00*

Notificar al Notario Sí No

Nombre, Dirección, Teléfono y Fax del Notario **LCDO. JOSE ERNESTO RIVERA REYES, 525 F.D. ROOSEVELT AVENUE, LA TORRE DE PLAZA LAS AMERICAS, SUITE 903, SAN JUAN, PUERTO RICO 00918-1198 TELS. 753-1158 - 763-0917 FAX-751-0771**

Nombre, Dirección, Teléfono y Fax del Presentante *San Juan Abstract*
Royal Bank Bldg. 809 Hato Rey, P.R. 00917 753-1200

Luis Rodríguez
Alejandro Pérez
Firma del Presentante
SAN JUAN ABSTRACT CO.
LCDO. ALEJANDRO PEREZ-MONTE
ROYAL BANK CENTER SUITE 809
255 PONCE DE LEON AVENUE
HATO REY, PR 00917
TELEFONO 753-1200

[Signature]
Firma del Funcionario del Registro

MINUTA DE ASIEN TO DE PRESENTACION

Escrituras e Instancias:

Número de Escritura o Instancia 80
Fecha de Escritura o Instancia 29 diciembre 1997
Lugar de Otorgamiento San Juan, P.R.
Nombre del Notario Miguel Agustín Blanco Fuertes
Número de Colegiado o de Notario 12,072

12/29/97
Miguel Agustín Blanco Fuertes
Notario

Documento Judicial: N/A

Tipos de Documento
 Sentencia o Resolución Demanda
 Orden y Mandamiento Otros
Tribunal _____, Sala de _____
Núm. Caso _____, Sobre _____
Demandante _____
Demandado _____
Ex-Parte _____

21411
68
14 de Enero
Hato 21311

Documento Administrativo: N/A

Tipo de Documento _____
Expedido por _____
Fecha de Expedición _____

DATOS COMUNES A TODOS LOS DOCUMENTOS

Lugar de ubicación de la(s) finca(s) Bo. Sabana Llana, Río Piedras, Puerto Rico
Número(s) de la(s) Finca(s) 856

Acción Solicitada Inscribir Cancelar Anotar
Transacción(es) "Deed of Constitution of First Mortgage"

A Favor de BANCO SANTANDER PUERTO RICO

Valor(es) \$540,000.00

Documentos Complementarios Certificado de Resolución

Comprobantes y Sellos: # de Serie	Valor
<u>H-5075157</u>	<u>2,060.00</u>
<u>H-7075158</u>	<u>50.00</u>
<u>H-7075159</u>	<u>10.00</u>
<u>B-13175402</u>	<u>0.50</u>
Total	<u>\$2,120.50</u>

Notificar al Notario Si No

Nombre, Dirección Teléfono y Fax del Notario Miguel Agustín Blanco Fuertes, P.O. Box 363507, San Juan, P.R. 00936-3507; Tel. 759-3174, Fax 759-3124

Nombre, Dirección Teléfono y Fax del Presentante San Juan Abstract Co. Royal Bank Bldg. 809 Hato Rey, P.R. 00917 753-1200

[Signature]

Firma del Presentante
SAN JUAN ABSTRACT CO
LCDO. ALEJANDRO PEREZ-MONTE
ROYAL BANK CENTER SUITE 809
255 PONCE DE LEON AVENUE
HATO REY, PR 00917
TELEFONO: 753-1200

[Signature]

Firma del Funcionario del Registro

APPENDIX B
SITE PHOTOGRAPHS
HISTORICAL MAPS



FACILITY: Sabana Village Apartments
LOCATION: #856 Juan Pérez Reyes St. Sabana Llana, San Juan, PR
SUBJECT: Property entrance.

DATE: 01/16/2019
PHOTO BY: A. Morales



FACILITY: Sabana Village Apartments
LOCATION: #856 Juan Pérez Reyes St. Sabana Llana, San Juan, PR
SUBJECT: Adjacent PTCO property.

DATE: 01/16/2019
PHOTO BY: A. Morales



FACILITY: Sabana Village Apartments
LOCATION: #856 Juan Pérez Reyes St. Sabana Llana, San Juan, PR
SUBJECT: Property apartment building.

DATE: 01/16/2019
PHOTO BY: A. Morales



FACILITY: Sabana Village Apartments
LOCATION: #856 Juan Pérez Reyes St. Sabana Llana, San Juan, PR
SUBJECT: Diesel AST.

DATE: 01/16/2019
PHOTO BY: A. Morales



FACILITY: Sabana Village Apartments
LOCATION: #856 Juan Pérez Reyes St. Sabana Llana, San Juan, PR
SUBJECT: Electric generator.

DATE: 01/16/2019
PHOTO BY: A. Morales



FACILITY: Sabana Village Apartments
LOCATION: #856 Juan Pérez Reyes St. Sabana Llana, San Juan, PR
SUBJECT: Electrical panels.

DATE: 01/16/2019
PHOTO BY: A. Morales



FACILITY: Sabana Village Apartments
LOCATION: #856 Juan Pérez Reyes St. Sabana Llana, San Juan, PR
SUBJECT: Empty plastic drums.

DATE: 01/16/2019
PHOTO BY: A. Morales



FACILITY: Sabana Village Apartments
LOCATION: #856 Juan Pérez Reyes St. Sabana Llana, San Juan, PR
SUBJECT: Parking area.

DATE: 01/16/2019
PHOTO BY: A. Morales



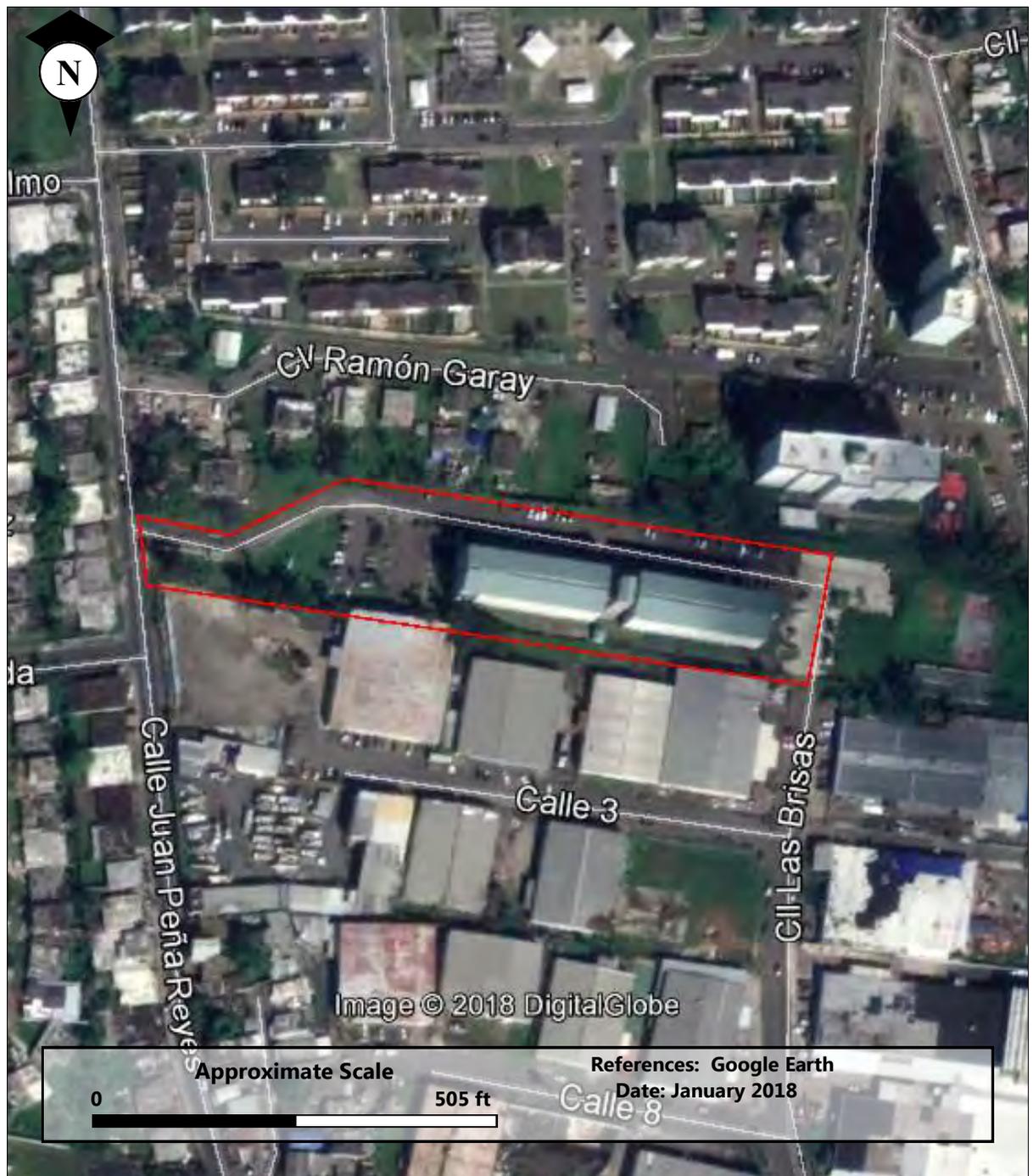
FACILITY: Sabana Village Apartments
LOCATION: #856 Juan Pérez Reyes St. Sabana Llana, San Juan, PR
SUBJECT: Water cistern pump station.

DATE: 01/16/2019
PHOTO BY: A. Morales



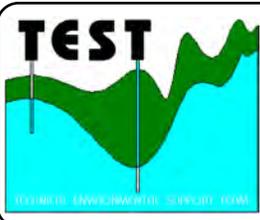
FACILITY: Sabana Village Apartments
LOCATION: #856 Juan Pérez Reyes St. Sabana Llana, San Juan, PR
SUBJECT: Basketball court and greenhouse.

DATE: 01/16/2019
PHOTO BY: A. Morales



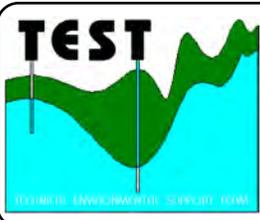
Approximate Scale 0 505 ft

References: Google Earth
Date: January 2018



TEST Environmental, Inc.
Environmental and GeoDrilling Services
P.O. Box 270311
San Juan, P.R. 00928
Tel. (787) 747-7645

AERIAL PHOTO
Sabana Village Apartments
856 Juan Pena Reyes St.
Rio Piedras Ward, San Juan, PR
Appendix B

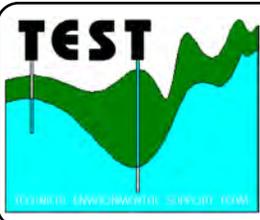


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AERIAL PHOTO
Sabana Village Apartments
 856 Juan Pena Reyes St.
 Rio Piedras Ward, San Juan, PR
Appendix B

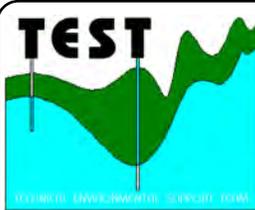
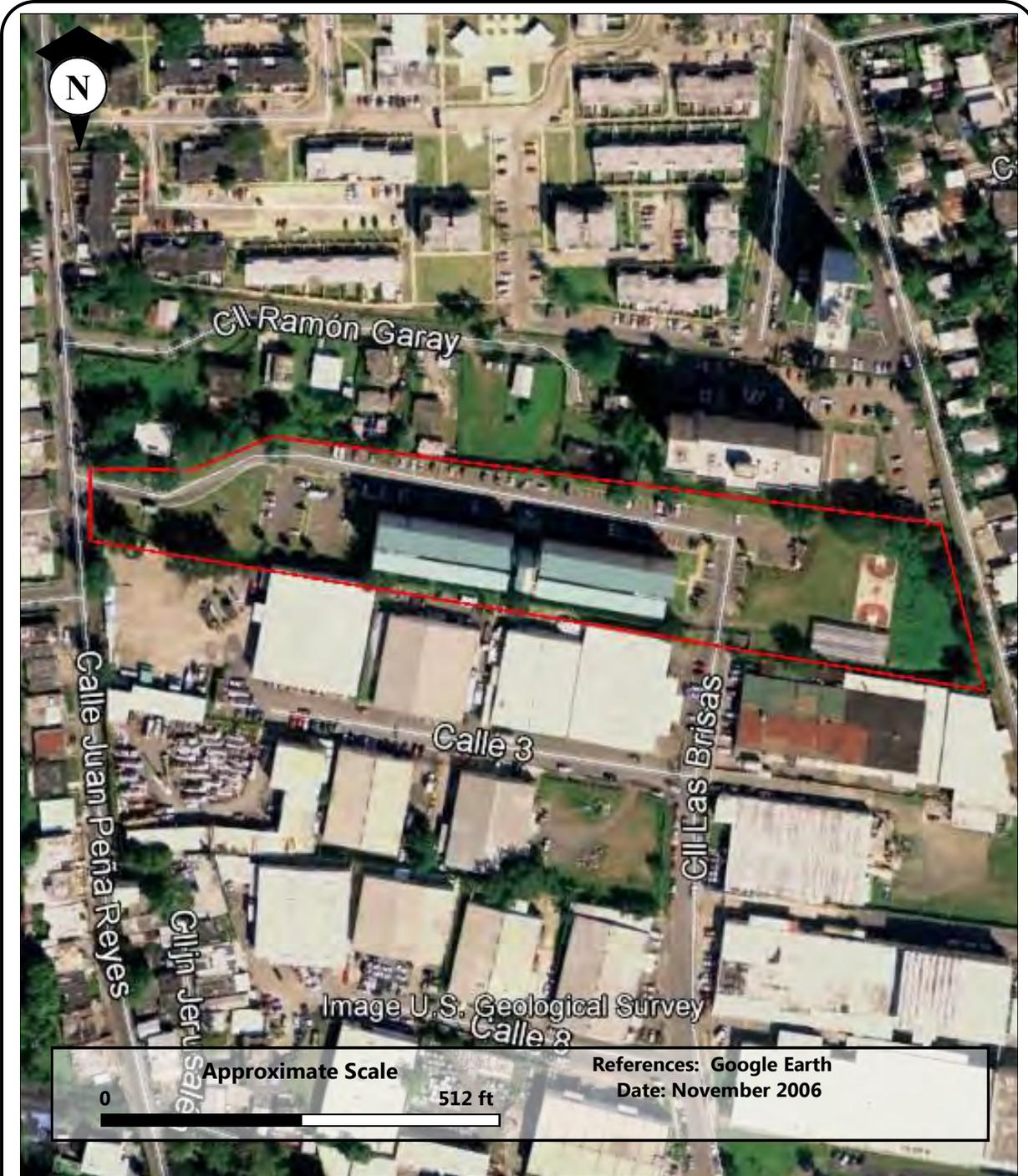


Approximate Scale 0 512 ft
References: Google Earth
Date: December 2010



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AERIAL PHOTO
Sabana Village Apartments
856 Juan Pena Reyes St.
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Appendix B



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AERIAL PHOTO
Sabana Village Apartments
 856 Juan Pena Reyes St.
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Appendix B

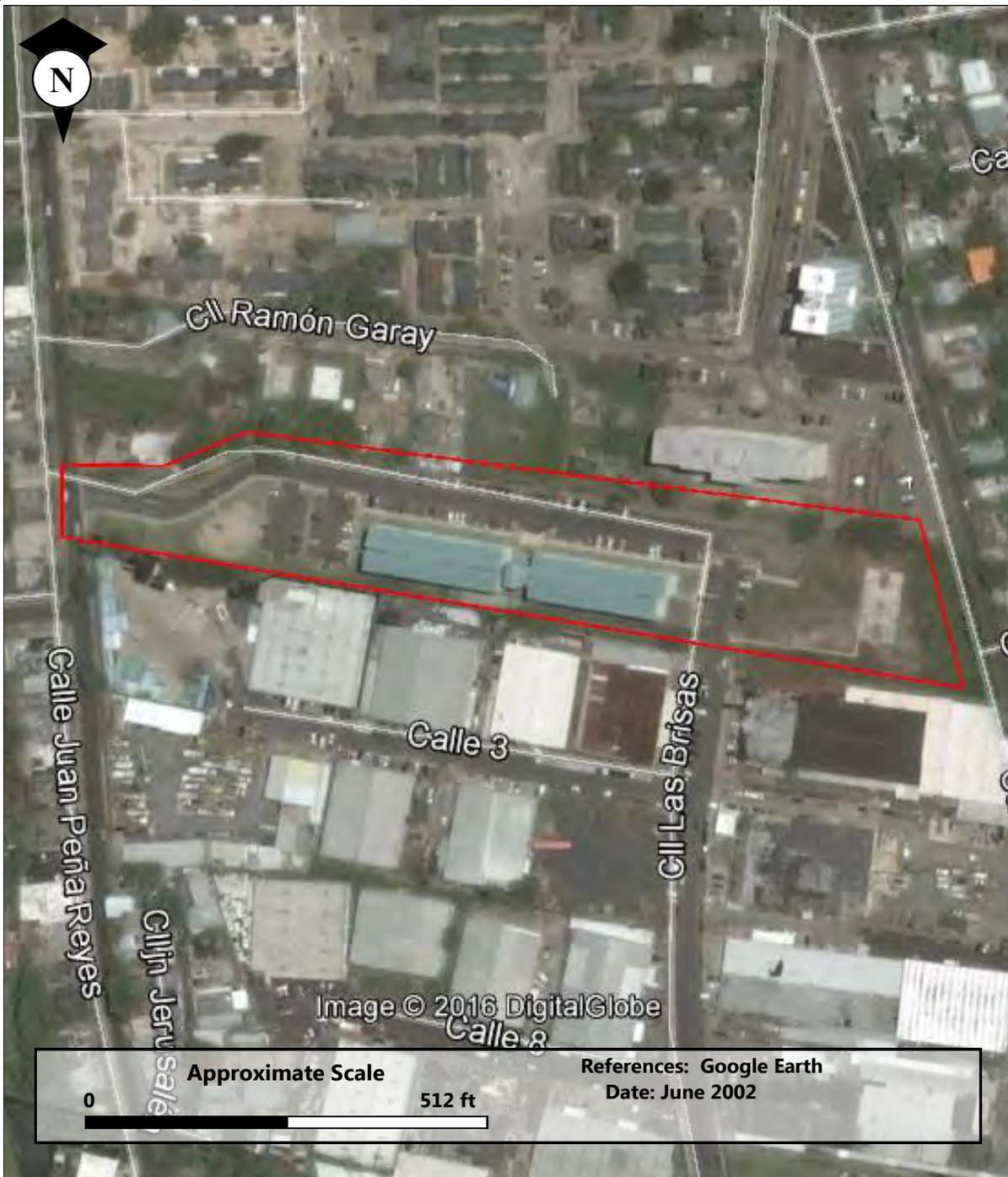
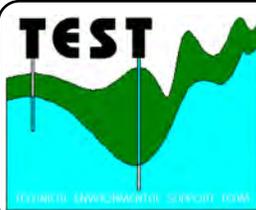


Image © 2016 DigitalGlobe

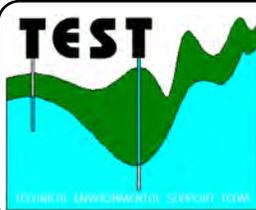
Approximate Scale 0 512 ft

References: Google Earth
Date: June 2002



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AERIAL PHOTO
Sabana Village Apartments
856 Juan Pena Reyes St.
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Appendix B



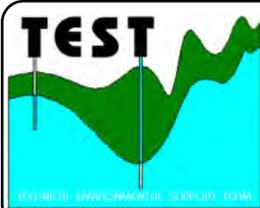
TEST Environmental, Inc.
 Environmental and GeoDrilling Services
 P.O. Box 270311
 San Juan, P.R. 00928
 Tel. (787) 747-7645

AERIAL PHOTO
Sabana Village Apartments
 856 Juan Pena Reyes St.
 Rio Piedras Ward, San Juan, PR
Appendix B



Original Scale 1:55,930

**References: USGS Earth Explorer
Date: March 14, 1977**



TEST Environmental, Inc.
Environmental and GeoDrilling Services
P.O. Box 270311
San Juan, P.R. 00928
Tel. (787) 747-7645

AERIAL PHOTO
Sabana Village Apartments
856 Juan Pena Reyes St.
Rio Piedras Ward, San Juan, PR
Appendix B

APPENDIX C
INTERVIEW QUESTIONNAIRE

INTERVIEW QUESTIONNAIRE

ASTM 1527-13

Name of person interviewed:

Milly Colón

Owner Past Owner Operator Occupant Key Site Manager User

Site Name:

Sabana Village Apart.

Date:

1/16/19

Site Address:

856 Juan Peña St., San Juan, PR

Introduction

The objective of this interview is to obtain information indicating *recognized environmental conditions* (REC's) in connection with the property. The person to be interviewed has an obligation to answer all questions posed by the person conducting the interview, in *good faith*, to the extent of his or her actual knowledge.

1. Environmental cleanup liens that are filed or recognized against the site (40 CFR 312.25).

Are you aware of any environmental cleanup liens against the property that are filed or recorded under federal, tribal, state or local law?

No

2. Activity and land use limitations that are in place on the site or that have been filed or recorded in a registry (40 CFR 312.26). *Are you aware of any AUL's, such as engineering controls, land use restrictions or institutional controls that are in place at the site and/or have been filed or recorded in a registry under federal, tribal, state or local law?*

No

3. Specialized knowledge or experience of the person seeking to qualify for the LLP (40 CFR 312.28).

As the user of this ESA do you have any specialized knowledge or experience related to the property or nearby property? For example, are you involved in the same line of business as the current or former occupants of the property or and adjoining property so that you would have specialized knowledge of the chemicals and processes used by this type of business?

Same line of business (residential).

4. Relationship of the purchase price to the fair market value of the property if it were not contaminated (40 CFR 312.29). *Does the purchase price being paid for this property reasonably reflect the fair market value of the property? If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the property?*

unknown

5. Commonly known or reasonably ascertainable information about the property (40 CFR 312.30). *Are you aware of commonly known or reasonably ascertainable information about the property that would help the environmental professional to identify conditions indicative of releases or threatened releases?*

No

For example, as user,

- a. *Do you know the past uses of the property?*

vacant land

- b. *Do you know of specific chemical that are present or once were present at the property?*

No

- c. *Do you know of spills or other chemical releases that have been taken place at the property?*

No

- d. *Do you know of any environmental cleanups that have taken place at the property?*

No

6. The degree of obviousness of the presence of likely presence of contamination at the property, and the ability to detect contamination by appropriate investigation (40 CFR 312.31). *As the user of this ESA, based on you knowledge and experience related to the property are there any obvious indicators that point to the presence or likely presence of contamination at the property?*

No

APPENDIX D
EPA ENVIROMAPPER INFORMATION

The facility list below is based upon the facilities that are visible with the map above. To refine your search to a more targeted area of interest, please visit the . To search Envirofacts via an interactive map, please view your results in

FACILITY INFORMATION	AFS	ACRES	BR	SEMS	GHG	PCS/ICIS	RADInfo	RCRAInfo	TRI	TSCA
<p>BALCONES DE SAN JUAN WASTEWATER COLLECTION SYSTEM 404 CALLE DE DIEGO, BALCONES DE SAN JUAN SAN JUAN, PR 00923 Latitude: 18.39835 Longitude: -66.03769</p> <p>Summary Report Facility Report Compliance Report</p>						<p>View Report</p>				
<p>BOYLE-MIDWAY DIVISION SIMON MADERA NO. 22 RIO PIEDRAS, PR 00924 Latitude: 18.404917 Longitude: -66.019157</p> <p>Summary Report Facility Report Compliance Report</p>							<p>View Report</p>			

FACILITY INFORMATION	AFS	ACRES	BR	SEMS	GHG	PCS/ICIS	RADInfo	RCRAInfo	TRI	TSCA
<p>CARIBE GENERAL ELECTRIC PRODUCT LA BRISA 5 SABANA LLANA RIO PIEDRAS, PR 00924 Latitude: 18.398352 Longitude: -66.024026</p> <p>Summary Report Facility Report Compliance Report</p>								<p>View Report</p>		
<p>CARIBE REBUILDERS 378 RAMON B LOPEZ AVE SAN JUAN, PR 00926 Latitude: 18.40112 Longitude: -66.03821</p> <p>Summary Report Facility Report Compliance Report</p>								<p>View Report</p>		
<p>HOSPITAL SAN FRANCISCO 371 AVENIDA DE DIEGO SAN JUAN, PR 00907 Latitude: 18.399081 Longitude: -66.038969</p> <p>Summary Report Facility Report Compliance Report</p>								<p>View Report</p>		

FACILITY INFORMATION	AFS 	ACRES 	BR 	SEMS 	GHG 	PCS/ICIS 	RADInfo 	RCRAInfo 	TRI 	TSCA 
<p><i>KERCADO AUTO REPAIR DE DIEGO AVE 1072 RIO PIEDRAS, PR 00919 Latitude: 18.398391 Longitude: -66.038089</i></p> <p>Summary Report Facility Report Compliance Report</p>								<u>View Report</u>		
<p><i>MAX CHEMICAL INC 6 CALLE LAS BRISAS RIO PIEDRAS, PR 00924 Latitude: 18.39696 Longitude: -66.02442</i></p> <p>Summary Report Facility Report Compliance Report</p>			<u>View Report</u>	<u>View Report</u>		<u>View Report</u>		<u>View Report</u>	<u>View Report</u>	<u>View Report</u>
<p><i>MOTORS & PARTS MANUFACTURING SIMON MADERA NO 14 VILLA PRADE RIO PIEDRAS, PR 00924-2232 Latitude: 18.401483 Longitude: -66.018522</i></p> <p>Summary Report Facility Report Compliance Report</p>								<u>View Report</u>		

FACILITY INFORMATION	AFS	ACRES	BR	SEMS	GHG	PCS/ICIS	RADInfo	RCRAInfo	TRI	TSCA
<p>PAGAN AUTO REPAIR 605 DE DIEGO AVE RIO PIEDRAS, PR 00923 Latitude: 18.397137 Longitude: -66.025771</p> <p>Summary Report Facility Report Compliance Report</p>								View Report		
<p>PAMCOR INC, RIO PIEDRAS 677 DE DEIGO AVE RIO PIEDRAS, PR 00928 Latitude: 18.397264 Longitude: -66.024067</p> <p>Summary Report Facility Report Compliance Report</p>								View Report	View Report	
<p>SHELL CO PR LTD SS 0655 SABANA LLANA DE DIEGO AVE & TRUJILLO ALTO RIO PIEDRAS, PR 00924 Latitude: 18.397628 Longitude: -66.031253</p> <p>Summary Report Facility Report Compliance Report</p>								View Report		

FACILITY INFORMATION	AFS 	ACRES 	BR 	SEMS 	GHG 	PCS/ICIS 	RADInfo 	RCRAInfo 	TRI 	TSCA 
<p> <i>TEXACO SERVICE STATION 335 VILLA PRADES 4 SIMON MADERA AVE RIO PIEDRAS, PR 00924</i> <i>Latitude: 18.40227</i> <i>Longitude: -66.01868</i> </p> <p> Summary Report Facility Report Compliance Report </p>								<p><i><u>View Report</u></i></p>		

APPENDIX E
SUPERFUND CERCLIS LIST

Due to a lapse in appropriations, EPA websites will not be regularly updated. In the event of an environmental emergency imminently threatening the safety of human life or where necessary to protect certain property, the EPA website will be updated with appropriate information. Please note that all information on the EPA website may not be up to date, and transactions and inquiries submitted to the EPA website may not be processed or responded to until appropriations are enacted.



Superfund Site Search Results

Disclaimer:

The CERCLIS Public Access Database, which contained a selected set of publicly releasable Superfund program data, has been retired. The EPA is transitioning to the Superfund Enterprise Management System, or SEMS. SEMS includes the same data and content as CERCLIS. As SEMS is made operational, nightly data refresh routines will be reestablished. This webpage will be updated to reflect the status of data updates.

Search Results

Search Criteria:

Active vs. Archived: *Active* [*What are active and archived sites?*](#)

County: 00924

Found **0** site(s) that match your search criteria listed above.

To conduct another search, return to the [**Search Superfund Site Information**](#) page.

OCTOBER 23, 2018

APPENDIX F
ENFORCEMENT & COMPLIANCE
HISTORY ONLINE
(ECHO)

You are here [Home](#) » [Facilities](#) » [Facility Search](#) » [Facility Search Results](#)

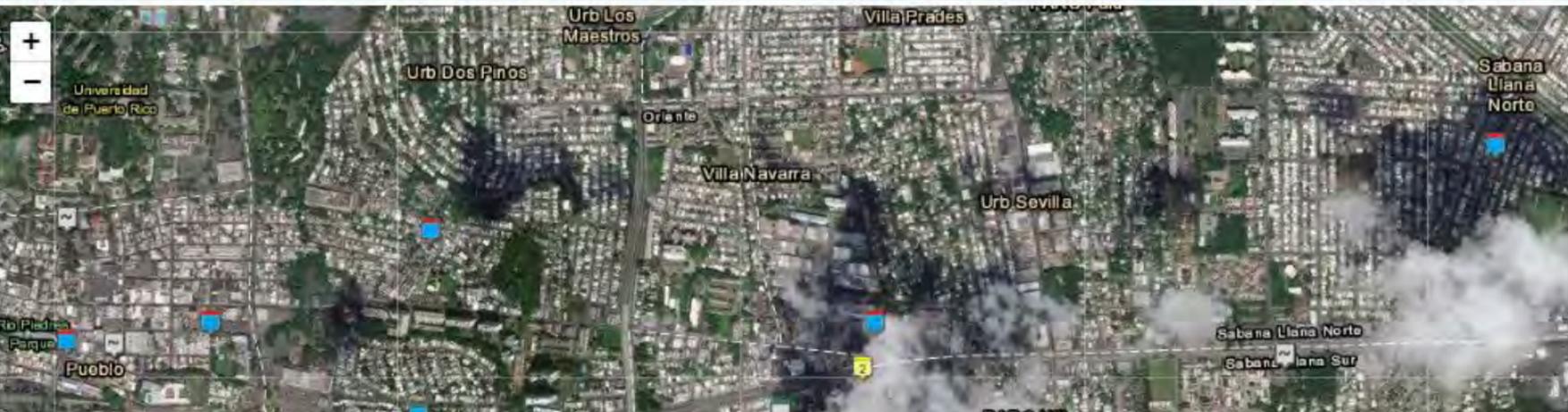
Facility Search Results

⚠ Missouri, North Carolina, Vermont, Washington, and West Virginia are working with EPA to fix problems with their Clean Water Act violation data. [Read More...](#)

[Hide Map](#) [Hide Table](#) [Hide Summary](#)

[Report Violation](#) [Help](#)

[Map Legend](#) [Basemap Options](#) Zoom To: Sync Map and Table



Facility Summary -
Select a facility row from the search results table.

Current Search -

33 Facilities Found

Selected Criteria

Search Type: All Data
Active/Operating: Yes

- Explore Enforcement and Compliance Criteria**
- 1 Facilities with Current Violations
 - 0 Facilities with Significant Violations
 - 1 Facilities with Violations (3 years)
 - 1 Facilities with Formal Enforcement Actions (5 years)
 - 3 Facilities with Informal Enforcement Actions (5 years)

FacName	FacStreet	FacCity
AGRICULTURE EXPERIMENTAL STATION	GUARACANAL ST RD 1 KM 1.5	RIO PIEDRAS
ALBANO DRY CLEANER	1185 CALLE MAXIMO ALOMAR 65TH INF RIO PIEDRAS	SAN JUAN
ALBANO DRY CLEANERS	AVE. AMERICO MIRANDA	RIO PIEDRAS
AUTO KOOL INC.	759 MUNOZ RIVERA AVE.	RIO PIEDRAS
BORICUA BUMPER	393 AVE 65TH INFANERIA ESQ	RIO PIEDRAS
CARIBE GENERAL ELECTRIC PRODUCT	LA BRISA 5 SABANA LLANA	RIO PIEDRAS
CARIBE REBUILDERS	378 RAMON B LOPEZ AVE	SAN JUAN
CMS DR JAVIER JAVIER ANTON	#1 PINERO ST COR VALLEJO ST	RIO PIEDRAS
ESSO STANDARD OIL CO - PR CO-042	AVE GLASSGOW ESQ GRENOBLE	RIO PIEDRAS
ESSO STANDARD OIL CO PR 3P-198	1072 DE DIEGO ESQ BARBOSA	RIO PIEDRAS
FAMILY CLEANERS (ANTES NEW WAY CLEANERS)	CAMPO RICO AVE. # 867	SAN JUAN
FARMACIA EL AMAL #27	79 ARZUAGA ST	RIO PIEDRAS
FUJI PHOTO FILM USA INC	544 ALDEBARAN ST URB ALTAMIRA	GUAYNABO
INTERNATIONAL INSTITUTE OF TROPICAL FORE	RIO PIEDRAS TO CAGUAS RD	RIO PIEDRAS
IRRIZARY AUTO-ELECTRO	608 NAPOLES STREET	RIO PIEDRAS
LAS VISTAS DRY CLEANERS	AVE. LAS CUMBRES LAS VISTAS	RIO PIEDRAS
LOS PRIMOS NISSAN	AVE 65 INFANERIA KM 5.6	RIO PIEDRAS
MAX CHEMICAL INC	6 CALLE LAS BRISAS	RIO PIEDRAS
MJ CLEANERS, INC.	RD845 URB.IND VICTOR FERNANDEZ	RIO PIEDRAS
NORDSTROM INC 701	4000 MALL OF SAN JUAN BLVD	SAN JUAN
PR PUBLIC HOUSING ADM JARDINES DE SELLES	JUAN PENA REYES URB VILLA	RIO PIEDRAS
PREPA SAN JUAN REGION	PR-47 KM 0.5 CALLE DE DIEGO	RIO PIEDRAS
PUERTO RICO BOTANICAL GARDEN MERENDERO	1204 CEIBA ST	RIO PIEDRAS
ROYAL MOTORS	AVE GS INF KM 5.4	RIO PIEDRAS
SAN GERARDO HOSPITAL	RD 844 KM 0.5 CUPEY BAJO WARD	RIO PIEDRAS
SIAMAK DRY CLEANERS	MONTELLANO MALL RD#1 ESQ.RD#14	CAYEY
TOP QUALITY	CALLE EIDER #923 COUNTRY CLUB	RIO PIEDRAS
TOTAL PETROLEUM PUERTO RICO CORP-SERVICE STATION 104014	EXPRESO TRUJILLO ALTO & AVE	RIO PIEDRAS
TOTAL PETROLEUM PUERTO RICO CORP-SERVICE STATION 304141	AVE SAN IGNACIO 1385 ALTAMESA	RIO PIEDRAS
VALUE TIRE	875 CAMPO RICO AVE	SAN JUAN
VELAZQUEZ HYDRAULIC SERVICES	CALLE BRISAS FINAL LOT 7 SAB LLANA	RIO PIEDRAS
WALGREEN #12649	AVE WINSTON CHURCHILL	RIO PIEDRAS
XARIS	MUNOZ RIVERA ESQ.COLL Y TOSTE	RIO PIEDRAS

APPENDIX G
EPA TOXIC RELEASE INFORMATION
(TRI)

Search Results

[Home](#)
[Multisystem Search](#)
[Topic Searches](#)
[System Data Searches](#)
[About the Data](#)
[Data Downloads](#)
[Widgets](#)
[Services](#)
[Mobile](#)
[Other Datasets](#)

TRI

List of Facilities Reporting to TRI in Envirofacts

The Toxics Release Inventory (TRI) contains information about more than 650 toxic chemicals that are being used, manufactured, treated, transported, or released into the environment. Manufacturers of these chemicals are required to report the locations and quantities of chemicals stored on-site to state and local governments. The reports are submitted to the EPA and state governments. EPA compiles this data in an on-line, publicly accessible national computerized database. Using this information, citizens, businesses, and governments can work together to protect the quality of their land, air, and water. Note that Envirofacts does not provide any safety or health information about these chemicals and compounds. You may use the [Toxic Release Search](#) for basic facility information and chemical reports, which tabulate air emissions, surface water discharges, releases to land, underground injections, and transfers to off-site locations. The [TRI National Analysis](#) website provides a brochure with a quick overview of TRI data for the current reporting year and general trends over the past several years.

Search Results for:

00924

The data within the table below can be downloaded in a comma-separated value file for use in Excel by clicking here:



**The search results are based upon the facilities that are visible within the map above. To refine your search to a more targeted area of interest, please visit the [TRI Search Form](#). To search Envirofacts via an interactive map, please view your results in [EnviroMapper for Envirofacts](#)*

FACILITY NAME	STREET ADDRESS	CITY NAME	COUNTY	STATE	ZIP CODE	LATITUDE/LONGITUDE	SUBMISSIONS	RISK SCREENING
MAX CHEMICAL INC Get this report	URB. INDUSTRIAL SABANA LLANA, LA BRISA NO. 6	RIO PIEDRAS	SAN JUAN	PR	00924	18.39696/-66.02442	72	Report
PAMCOR INC, RIO PIEDRAS Get this report	NO 677 AVE DE DIEGO	RIO PIEDRAS	SAN JUAN	PR	00924	18.397264/-66.024067	8	N/A

APPENDIX H
RESOURCE CONSERVATION &
RECOVERY ACT
(RCRA INFO)



List of Facilities Reporting to RCRAInfo in Envirofacts

Hazardous waste information is contained in the Resource Conservation and Recovery Act Information (RCRAInfo), a national program management and inventory system about hazardous waste handlers. In general, all generators, transporters, treaters, storers, and disposers of hazardous waste are required to provide information about their activities to state environmental agencies. These agencies, in turn pass on the information to regional and national EPA offices. This regulation is governed by the Resource Conservation and Recovery Act (RCRA), as amended by the Hazardous and Solid Waste Amendments of 1984. You may use the [Hazardous Waste Search](#) to determine identification and location data for specific hazardous waste handlers, and to find a wide range of information on treatment, storage, and disposal facilities regarding permit/closure status, compliance with Federal and State regulations, and cleanup activities. There is also information on related [Laws and regulations](#).

Search Results for:

00924

The data within the table below can be downloaded in a comma-separated value file for use in Excel by clicking here:



The search results are based upon the facilities that are visible within the map above. To refine your search to a more targeted area of interest, please visit the [RCRAInfo Search Form](#). To search Envirofacts via an interactive map, please v

FACILITY NAME	STREET ADDRESS	CITY NAME	COUNTY	STATE	ZIP CODE	LATITUDE/LONGITUDE
BOYLE-MIDWAY DIVISION Detailed Report	SIMON MADERA NO. 22	RIO PIEDRAS	SAN JUAN	PR	00924	18.404917/-66.019157
CARIBE GENERAL ELECTRIC PRODUCT Detailed Report	LA BRISA 5 SABANA LLANA	RIO PIEDRAS	SAN JUAN	PR	00924	18.398352/-66.024026
MAX CHEMICAL INC Detailed Report	6 CALLE LAS BRISAS	RIO PIEDRAS	SAN JUAN	PR	00924	18.39696/-66.02442
MOTORS & PARTS MANUFACTURING Detailed Report	SIMON MADERA NO 14 VILLA PRADE	RIO PIEDRAS	SAN JUAN	PR	00924-2232	18.401483/-66.018522
PAGAN AUTO REPAIR Detailed Report	605 DE DIEGO AVE	RIO PIEDRAS	SAN JUAN	PR	00923	18.397137/-66.025771
PAMCOR INC, RIO PIEDRAS Detailed Report	677 DE DIEGO AVE	RIO PIEDRAS	SAN JUAN	PR	00928	18.397264/-66.024067
SHELL CO PR LTD SS 0655 SABANA LLANA Detailed Report	DE DIEGO AVE & TRUJILLO ALTO	RIO PIEDRAS	SAN JUAN	PR	00924	18.397628/-66.031253
TEXACO SERVICE STATION 335 VILLA PRADES Detailed Report	4 SIMON MADERA AVE	RIO PIEDRAS	SAN JUAN	PR	00924	18.40227/-66.01868

APPENDIX I
EPA LIST OF BROWNFIELDS AND
GRANTS INFORMATION

United States Environmental Protection Agency

Search EPA.gov

You are here: EPA Home >> Cleanups >> Cleanups In My Community (CIMC)

Share Contact Us

Cleanups In My Community List Results

This is a list of only the sites, properties and facilities which reside within the boundaries of the geographic area you have specified and which meet your criteria.

* Required Item

Search Types

Define Your Community: *

Zip Code (Cleanups Only)
00924

Basic Cleanups Brownfields Grants Jurisdictions

Basic Cleanup Filters Apply

Check All

Brownfields Properties

- Assessment Grants
- Assessment Pilots
- Cleanup Grants
- RLF Grants
- RLF Pilots
- Multi-Purpose Grants
- Area-Wide Grants
- State and Tribal 128(a) Grants
- State and Tribal 128(a) Pilots
- Showcase Community
- Targeted Brownfields Assessments

Acronyms

RLF: Revolving Loan Fund

NPL: National Priority List

CWA: Clean Water Act

OPA: Oil Pollution Act

RCRA: Resource Conservation & Recovery Act

BRAC: Base Realignment & Closure

CERCLA: Comprehensive Environmental
Response, Compensation, & Liability Act

RCRA Hazardous Waste - Corrective Actions

- Current Corrective Action
- Remedy Selected
- Construction Complete
- Remedy Action Complete
- Remedy Not Yet Selected

Federal Agency Hazardous Waste Compliance Docket

- NPL Superfund
- BRAC
- RCRA
- Other Docket Facilities

Superfund NPL Sites

- Proposed
- Final
- Deleted

Federal Facilities

- BRAC
- Superfund
- RCRA

Recovery Act (2009)

- Brownfields Properties
- Superfund

Responses

Response Type

- Emergency
- Non-Time-Critical
- Pre-Deployment
- PRP Oversight
- Time-Critical
- No Category

Response Authority

- CERCLA
- CERCLA/OPA
- CWA
- OPA
- Stafford Act
- No Category

Status

- Active
- Complete

Incident Category

- Removal Action
- Removal Assessment
- No Category

- Click on the column header to sort in ascending or descending order.
- To directly view any profiles and reports available for a cleanup, click on the associated report(s) found in columns designated as "...Link"
- To see a map of a cleanup, click on the "Map It" link found in the "Map Site" column.
- To export /download the list of cleanups, click Actions (located below), then click Download and choose the report format.
- To add additional columns, click Actions, click Select Columns, then choose the column(s) from the left "Do Not Display" box and move them to the "Display in Report" box. Columns can be re-ordered by moving them up or down in the "Display in Report" box but return to the default order when opening a new session.

Q ▾		Go	Actions ▾
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No data found.

United States Environmental Protection Agency

Search EPA.gov

You are here: EPA Home >> Cleanups >> Cleanups In My Community (CIMC)

Share Contact Us

Brownfields Grant Search Results

This is a list of only the sites, properties and facilities which reside within the boundaries of the geographic area you have specified and which meet your criteria.

Search Types

Define Your Community: *

Zip Code (Cleanups Only)
00924

- Basic Cleanups
- Brownfields Grants Jurisdictions

Brownfields Grants Jurisdictions Filters Apply

Brownfields Grants Jurisdictions

- Assessment Grants
- Assessment Pilots
- Cleanup Grants
- RLF Grants
- RLF Pilots
- Multi-Purpose Grants
- Area-Wide Planning Grants
- State and Tribal 128(a) Grants
- State and Tribal 128(a) Pilot Grants
- Showcase Community
- Targeted Brownfields Assessments (Not available for mapping.)
- Job Training Grants
- Job Training Pilots

Grant Status

- Open Grants

- Closed Grants
- Cancelled Grants

- Click on the column header to sort in ascending or descending order.
- To directly view any profiles and reports available for a cleanup, click on the associated report(s) found in columns designated as "...Link"
- To see a map of a cleanup, click on the "Map It" link found in the "Map Site" column.
- To export /download the list of cleanups, click Actions (located below), then click Download and choose the report format.
- To add additional columns, click Actions, click Select Columns, then choose the column(s) from the left "Do Not Display" box and move them to the "Display in Report" box. Columns can be re-ordered by moving them up or down in the "Display in Report" box but return to the default order when opening a new session.

Q ▾		Go	Actions ▾
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No data found.

[Legal Notices](#)

[Click for More Brownfields Info](#)



APPENDIX J
EPA RADIATION INFORMATION
DATABASE



List of Facilities Reporting to RADInfo in Envirofacts

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

RADINFO includes facility information for facilities regulated by these Code of Federal Regulation (CFR) parts: 40 CFR Parts 191 and 194; 40 CFR Part 61; and 40 CFR Part 300. 40 CFR Parts 191 and 194 are EPA's regulations governing the Department of Energy's Waste Isolation Pilot Plant (Part 194) and the management and disposal of spent nuclear fuel, and high-level and transuranic radioactive wastes (Part 191). EPA's regulations limiting the amount of radiation that can be released into the air from a number of different types of facilities are contained in 40 CFR Part 61, Subparts B, H, I, K, Q, R, T, and W. 40 CFR 300 establishes EPA's National Priority List (NPL), and RADINFO only contains information on radioactively-contaminated NPL sites. There are EPA regulated facilities that are not yet included in the RADINFO database, and they are nuclear fuel cycle facilities regulated by 40 CFR Part 190 and designated uranium and thorium mill tailings processing or depository sites regulated by 40 CFR Part 192.

Search Results for:

00924

The data within the table below can be downloaded in a comma-separated value file for use in Excel by clicking here:



**The search results are based upon the facilities that are visible within the map above. To refine your search to a more targeted area of interest, please visit the [RADInfo Search](#) please view your results in [EnviroMapper for Envirofacts](#)*

Total Facilities Returned: 0

APPENDIX K
EPA FACILITY REGISTRY SYSTEM
(FRS)



Related Topics: Envirofacts

FRS

FRS Facility Query Results

Your selection returned 66 facilities which are listed below. Results are sorted by State, City Name, and Facility Name

Facility Registry Service Links:

- Facility Registry Service (FRS) Overview
- FRS Facility Query
- FRS Organization Query
- EZ Query
- FRS Physical Data Model
- FRS Geospatial Model

[Report an Error](#)



Map Legend

- Denotes a facility/site loc;
- Denotes a facility/site loc; by clicking on the 'Magnify' facilities/sites displayed below
- Denotes a "Cluster" of facilities; clicking on the cluster will allow you to expand all clusters at a particular location. It may take a few seconds to expand all clusters at a particular location. To turn clustering off, click on the "Turn Clustering Off" button in the tabular list of facilities below.
- In the tabular list of facilities below, a single click on the facility name will zoom the map to that facility location.

- [Go To The Facility/Site Table](#)
- [Restore Original Map](#)
- [Download KML File](#)
- [Turn Clustering Off](#)
- [Turn Clustering On](#)
- [New Query](#)

Consolidated facility information (from multiple EPA systems) was searched to select facilities

ZIP Code: 00924

Note: Click on the underlined FACILITY NAME to view a detailed facility information report for the Facility Site.

[Go To Bottom Of The Page](#)

List of National System Records

FACILITY NAME	Mapped	LOCATION ADDRESS	CITY NAME	COUNTY NAME	STATE	ZIP CODE	Reports
---------------	--------	------------------	-----------	-------------	-------	----------	---------

COSTCO WHOLESALE #335		1185 AVE 65TH INFANTERIA	CAROLINASAN JUAN	PR	00924	Detailed Facility Report , MyEnvironment , Site Demographics , Facility Coordinates , Enforcement and Compliance	
HEAVENS GATE AT CELESTIUM		PR-3, CANOVANILLAS INDUSTRIAL PARK	CAROLINACAROLINA	PR	00924	Detailed Facility Report , MyEnvironment , Site Demographics , Facility Coordinates	
PRPHA - RES ALTURAS DE COUNTRY CLUB		AVENIDA 65 INFANTERIA LOT 15 AVENIDA	CAROLINACAROLINA	PR	009243778	Detailed Facility Report , MyEnvironment , Site Demographics , Facility Coordinates , Enforcement and Compliance	
ESSO TELLER MARKET BABOSA		621 BARBOSA AVE	HATO REY	SAN JUAN	PR	00924	Detailed Facility Report , MyEnvironment , Site Demographics , Facility Coordinates , Enforcement and Compliance
ACEROS DE AMERICA, INC		RD 1 KM 25.0	RIO PIEDRAS	SAN JUAN	PR	00924	Detailed Facility Report , MyEnvironment , Site Demographics , Facility Coordinates
AEE	Not Mapped	442 CALLE OLOT URB. OPEN LAND	RIO PIEDRAS		PR	00924	Detailed Facility Report , MyEnvironment
AEE	Not Mapped	CALLE DE DIEGO ESQ LAS BRISASSABANA SECA	RIO PIEDRAS		PR	00924	Detailed Facility Report , MyEnvironment
BORICUA BUMPER	Not Mapped	393 AVE 65TH INFANTERIA ESQ	RIO PIEDRAS	SAN JUAN	PR	00924	Detailed Facility Report , MyEnvironment , Enforcement and Compliance
BOYLE-MIDWAY DIVISION		SIMON MADERA NO. 22	RIO PIEDRAS	SAN JUAN	PR	00924	Detailed Facility Report , MyEnvironment , Site Demographics , Facility Coordinates , Enforcement and Compliance
CARIBE GENERAL ELECTRIC PRODUCT		LA BRISA 5 SABANA LLANA	RIO PIEDRAS	SAN JUAN	PR	00924	Detailed Facility Report , MyEnvironment , Site Demographics , Facility Coordinates , Enforcement and Compliance
DEPARTAMENTO DE EDUCACION	Not Mapped	ALEGRIA FINAL LAS VIRTUDES	RIO PIEDRAS	SAN JUAN	PR	00924	Detailed Facility Report , MyEnvironment , Enforcement and Compliance

DEPT OF ED - VILLA CAPRI SCHOOL		CALLE VERONA	RIO PIEDRAS	SAN JUAN	PR	00924	Detailed Facility Report , MyEnvironment , Site Demographics , Facility Coordinates , Enforcement and Compliance
FARMACIA EL AMAL #41	Not Mapped	BERWIND SHOPPING CENTER	RIO PIEDRAS	SAN JUAN	PR	00924	Detailed Facility Report , MyEnvironment , Enforcement and Compliance
HOSPITAL INDUSTRIAL	Not Mapped	CENTRO MEDICO, BO MONACILLOS	RIO PIEDRAS	SAN JUAN	PR	00924	Detailed Facility Report , MyEnvironment
INDUSERVE		AVE ANTONIO LUCIANO ESQ CARMEN	RIO PIEDRAS	SAN JUAN	PR	00924	Detailed Facility Report , MyEnvironment , Site Demographics , Facility Coordinates , Enforcement and Compliance
IRRIZARY AUTO-ELECTRO		608 NAPOLES STREET	RIO PIEDRAS	SAN JUAN	PR	00924	Detailed Facility Report , MyEnvironment , Site Demographics , Facility Coordinates , Enforcement and Compliance
KODAK RAHOLA INC	Not Mapped	CAMPO RICO AVE GP17 CNTRY CLUB	RIO PIEDRAS	SAN JUAN	PR	00924	Detailed Facility Report , MyEnvironment , Enforcement and Compliance
LORD ELECTRIC COMPANY OF PR, INC		8 SIMON MADERA ST	RIO PIEDRAS	SAN JUAN	PR	00924	Detailed Facility Report , MyEnvironment , Site Demographics , Facility Coordinates
MAX CHEMICAL INC		6 CALLE LAS BRISAS	RIO PIEDRAS	SAN JUAN	PR	00924	Detailed Facility Report , MyEnvironment , Site Demographics , Facility Coordinates , Enforcement and Compliance
METRO POZOS INC	Not Mapped	GP11 AVE CAMPO RICO CTRY CLUB	RIO PIEDRAS	SAN JUAN	PR	00924	Detailed Facility Report , MyEnvironment , Enforcement and Compliance
MOTORS & PARTS MANUFACTURING		SIMON MADERA NO 14 VILLA PRADE	RIO PIEDRAS	SAN JUAN	PR	00924-2232	Detailed Facility Report , MyEnvironment , Site Demographics , Facility Coordinates , Enforcement and Compliance
PEP BOYS 917	Not Mapped	65 DE INFANTRY & CALLE	RIO PIEDRAS	SAN JUAN	PR	00924	Detailed Facility Report , MyEnvironment , Enforcement and Compliance
PR PUBLIC HOUSING ADM JARDINES DE SELLES	Not Mapped	JUAN PENA REYES URB VILLA	RIO PIEDRAS	SAN JUAN	PR	00924	Detailed Facility Report , MyEnvironment , Enforcement and Compliance

PR PUBLIC HOUSING ADMIN	Not Mapped	SURANA ST COR OF STATE RD 3	RIO PIEDRAS	SAN JUAN	PR	00924	Detailed Facility Report , MyEnvironment , Enforcement and Compliance
PR PUBLIC HOUSING ADMIN EL PRADO	Not Mapped	JULIO ANDINO AVE COR WITH	RIO PIEDRAS	SAN JUAN	PR	00924	Detailed Facility Report , MyEnvironment , Enforcement and Compliance
PR PUBLIC HOUSING ADMIN SAN MARTIN		JUAN BAIZ ST - ADMIN OFFICE	RIO PIEDRAS	SAN JUAN	PR	00924	Detailed Facility Report , MyEnvironment , Site Demographics , Facility Coordinates , Enforcement and Compliance
PRASA PITOMETRIC OFFICE	Not Mapped	EXPERIMENTAL STATION	RIO PIEDRAS	SAN JUAN	PR	00924	Detailed Facility Report , MyEnvironment , Enforcement and Compliance
PRIVATE HOME	Not Mapped	DE DIEGO AVE #577	RIO PIEDRAS	SAN JUAN	PR	00924	Detailed Facility Report , MyEnvironment
PUERTO RICO ELECTRIC POWER MONACILLOS	Not Mapped	PR-1 MONACILLOS WARD	RIO PIEDRAS	SAN JUAN	PR	00924	Detailed Facility Report , MyEnvironment , Enforcement and Compliance
SHELL CO PR LTD - MONTECARLO SS 2828		AVE PRINCIPAL	RIO PIEDRAS	SAN JUAN	PR	00924	Detailed Facility Report , MyEnvironment , Site Demographics , Facility Coordinates , Enforcement and Compliance
SHELL CO PR LTD SS 0507 EL COMANDANTE	Not Mapped	CARMEN HERNANDEZ ST & LUCIANO	RIO PIEDRAS	SAN JUAN	PR	00924	Detailed Facility Report , MyEnvironment , Enforcement and Compliance
SHELL CO PR LTD SS 0655 SABANA LLANA		DE DIEGO AVE & TRUJILLO ALTO	RIO PIEDRAS	SAN JUAN	PR	00924	Detailed Facility Report , MyEnvironment , Site Demographics , Facility Coordinates , Enforcement and Compliance
SHELL CO PR LTD SS 1694 GARAJE SHELL	Not Mapped	CENTRAL AVE & DE DIEGO ST	RIO PIEDRAS	SAN JUAN	PR	00924	Detailed Facility Report , MyEnvironment , Enforcement and Compliance
SHELL CO PR LTD SS 2542 SAGRADO CORAZON		SAN CLAUDIO ST RD PR-845 KM 4	RIO PIEDRAS	SAN JUAN	PR	00924	Detailed Facility Report , MyEnvironment , Site Demographics , Facility Coordinates , Enforcement and Compliance
SHELL CO PR LTD SS 2933 FAIR VIEW	Not Mapped	FAIR VIEW SHOPPING CTR	RIO PIEDRAS	SAN JUAN	PR	00924	Detailed Facility Report , MyEnvironment , Enforcement and Compliance
SHELL CO PR LTD SS 803789 AVE CENTRAL	Not Mapped	JESUS T PINERO AVE CORNER DE	RIO PIEDRAS	SAN JUAN	PR	00924	Detailed Facility Report , MyEnvironment , Enforcement and Compliance

SHELL CO PR LTD SS 804754 MAMBRU	Not Mapped	PR-3 65TH INFANTERY AVE	RIO PIEDRAS	SAN JUAN	PR	00924	Detailed Facility Report , MyEnvironment , Enforcement and Compliance
SHELL CO PR LTD SS 804797 TATO BLANCO	Not Mapped	ROOSEVELT & ESCORIAL AVE COR	RIO PIEDRAS	SAN JUAN	PR	00924	Detailed Facility Report , MyEnvironment , Enforcement and Compliance
SHELL VILLA PRADES GAS STATION		721 SIMON MADERA AVE	RIO PIEDRAS	SAN JUAN	PR	00924	Detailed Facility Report , MyEnvironment , Site Demographics , Facility Coordinates , Enforcement and Compliance
SMART SIGNS	Not Mapped	1218 PARANA	RIO PIEDRAS	SAN JUAN	PR	00924	Detailed Facility Report , MyEnvironment , Enforcement and Compliance
TEXACO PR INC COMANDANTE SS	Not Mapped	CAMPO RICO AVE CORNER	RIO PIEDRAS	SAN JUAN	PR	00924	Detailed Facility Report , MyEnvironment , Enforcement and Compliance
TEXACO SERVICE STATION 335 VILLA PRADES		4 SIMON MADERA AVE	RIO PIEDRAS	SAN JUAN	PR	00924	Detailed Facility Report , MyEnvironment , Site Demographics , Facility Coordinates , Enforcement and Compliance
TOTAL PETROLEUM	Not Mapped	AVE 65 INFANTERIA	SAN AUGUSTIN	SAN JUAN	PR	00924	Detailed Facility Report , MyEnvironment
#225-SANTA MARIA	Not Mapped	CARR # , MARGINAL KM 16.6URB SANTA MARIA	SAN JUAN	SAN JUAN	PR	00924	Detailed Facility Report , MyEnvironment
AGUSTIN LUGO INC		1183 AVE 65TH INFANTERIA	SAN JUAN	SAN JUAN	PR	00924	Detailed Facility Report , MyEnvironment , Site Demographics , Facility Coordinates , Enforcement and Compliance
ANA I. MENDEZ REAL ESTATE	Not Mapped	URB. COUNTRY CLUB, CALLE PAULADINA 930	SAN JUAN	SAN JUAN	PR	00924	Detailed Facility Report , MyEnvironment
AUTO SPA INC		808 CAMPO RICO AVE	SAN JUAN	SAN JUAN	PR	00924	Detailed Facility Report , MyEnvironment , Site Demographics , Facility Coordinates , Enforcement and Compliance
BORICUA BUMPERS		393 AVE 65 INF ESQ CALLE 11	SAN JUAN	SAN JUAN	PR	00924	Detailed Facility Report , MyEnvironment , Site Demographics , Facility Coordinates , Enforcement and Compliance
CAMINOS DEL BOSQUE	Not Mapped	STATE ROAD 842 INTERIOR, CAIMITO WARD	SAN JUAN	SAN JUAN	PR	00924	Detailed Facility Report , MyEnvironment , Enforcement and Compliance

CARIBBEAN PETROLEUM LP SS GULF 140	Not Mapped	PR-3 KM 5.2 SAN MARTIN AVE 65 INF RIO PIEDRAS	SAN JUAN	SAN JUAN MUNICIPIO	PR	00924	Detailed Facility Report , MyEnvironment , Enforcement and Compliance
CARIBBEAN SIGN SUPPLIES MANUFACTURERS, INC	Not Mapped	SABANA LLANA IND. PARKLOTE #4, CALLE LAS BRISAS	SAN JUAN		PR	00924	Detailed Facility Report , MyEnvironment
CAROLINA REALTY GROUP		URB. DOS PINOS, 837 DR. LOPEZ SICARDO ST.	SAN JUAN	SAN JUAN	PR	00924	Detailed Facility Report , MyEnvironment , Site Demographics , Facility Coordinates
MARKETING 4 YOU REALTY GROUP		ANTONIO LUCIANO ST. #1193 URB. EL COMMANDANTE	SAN JUAN	SAN JUAN	PR	00924	Detailed Facility Report , MyEnvironment , Site Demographics , Facility Coordinates
MODE INTERNATIONALE, LLC	Not Mapped	1000 THE MALL OF SAN JUAN BOULEVARD	SAN JUAN		PR	00924	Detailed Facility Report , MyEnvironment
MOPAR INC		620 BARBOSA AVE	SAN JUAN	SAN JUAN	PR	00924	Detailed Facility Report , MyEnvironment , Site Demographics , Facility Coordinates , Enforcement and Compliance
NORDSTROM INC 701	Not Mapped	4000 MALL OF SAN JUAN BLVD	SAN JUAN	SAN JUAN	PR	00924	Detailed Facility Report , MyEnvironment , Enforcement and Compliance
PR PUBLIC HOUSING ADMIN E RAMOS ANTONINI	Not Mapped	AVE HOTERO FINAL ADMIN BLDG 1	SAN JUAN	SAN JUAN	PR	00924	Detailed Facility Report , MyEnvironment , Enforcement and Compliance
SHELL CO PR LTD SS 0515 VILLA PRADES	Not Mapped	SIMON MADERA AVE & J ANDINO ST	SAN JUAN	SAN JUAN	PR	00924	Detailed Facility Report , MyEnvironment , Enforcement and Compliance
SIPAC CONSTRUCTION CORP		CALLE DE DIEGO #554 BO. SABANA LLANA	SAN JUAN	SAN JUAN	PR	00924	Detailed Facility Report , MyEnvironment , Site Demographics , Facility Coordinates
SUZUKI DEL CARIBE INC		1179 AVE 65TH INFANTERIA ESQ	SAN JUAN	SAN JUAN	PR	00924	Detailed Facility Report , MyEnvironment , Site Demographics , Facility Coordinates , Enforcement and Compliance
UNIQUE BUILDERS INC		SIMON MADERA #718	SAN JUAN		PR	00924	Detailed Facility Report , MyEnvironment , Site Demographics , Facility Coordinates

US POSTAL SERVICE		100 AVE 65TH INFANTRY	SAN JUAN	SAN JUAN MUNICIPIO	PR	00924	Detailed Facility Report , MyEnvironment , Site Demographics , Facility Coordinates , Enforcement and Compliance
VALUE TIRE		875 CAMPO RICO AVE	SAN JUAN	SAN JUAN	PR	00924	Detailed Facility Report , MyEnvironment , Site Demographics , Facility Coordinates , Enforcement and Compliance
WALGREENS 891		PR-3 AVE 65TH INF CORNER BARBOSA RIO PIEDRAS	SAN JUAN	SAN JUAN MUNICIPIO	PR	00924	Detailed Facility Report , MyEnvironment , Site Demographics , Facility Coordinates , Enforcement and Compliance
WE ENERGIES		CALLE 28 SE REPARTO METROPOLITANO	SAN JUAN		PR	00924	Detailed Facility Report , MyEnvironment , Site Demographics , Facility Coordinates
COSTCO CAROLINA	Not Mapped	1185 AVE 65 INFANTERIA	SAN JUAN BAIROA WARD	SAN JUAN	PR	00924	Detailed Facility Report , MyEnvironment

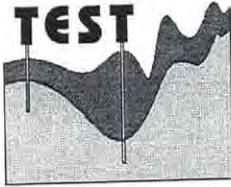
[Go To Top Of The Page](#)

Total Number of Facilities Displayed: 66

Last updated on September 24, 2015

APPENDIX L
WATER WELLS LOG MAP
&
EPA MYWATER MAPPER

APPENDIX M
EQB'S REQUEST OF INFORMATION LETTERS



TEST Environmental, Inc.
Environmental and GeoDrilling Services
P.O. Box 270311
San Juan, P.R. 00928-3111
Tel. (787) 747-7645

COPY

14 de enero de 2019

RCUD JCA RADICACIONES

14 JAN 19 PM 3:23

Sra. Wilmarie Rivera Otero
Jefa
División para el Manejo de Tanques
Almacenamiento Soterrados
Junta de Calidad Ambiental
Ave. Ponce de León no. 1308
San Juan, PR

Re: Fase I en Sabana Village Apartments
856 Calle Juan Pena Reyes
Bo. Rio Piedras, San Juan, PR

Estimada señora Rivera:

Zimmetry Environmental desea realizar un estudio Fase I en una propiedad comercial identificada como Sabana Village Apartments, localizada en 856 Calle Juan Pena Reyes, Bo. Rio Piedras, San Juan, PR.

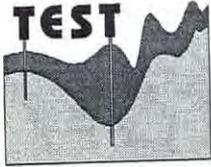
La tarea de realizar el estudio Fase I de la propiedad y su situación ante la Junta de Calidad Ambiental fue asignada a **TEST** Environmental, Inc., compañía de servicios ambientales. Por esta razón, se solicita respetuosamente a la Junta de Calidad Ambiental, División para el Manejo de Tanques Almacenamiento Soterrados toda información disponible referente a dicha propiedad.

Es nuestro gran interés el poder tener acceso a cualquier información o documentos públicos vinculados con esta propiedad que puedan ayudar a clarificar cualquier situación presente en la propiedad.

Gracias anticipadas por la ayuda que nos puedan brindar en este caso. De tener preguntas relacionadas con este estudio favor de comunicarse con nosotros al Tel. (787) 747-7645 o al (787) 374-0182.

Atentamente,

Alvaro Morales, PG, REPA
Geólogo/Gerente Ambiental



TEST Environmental, Inc.
Environmental and GeoDrilling Services
P.O. Box 270311
San Juan, P.R. 00928-3111
Tel: (787) 747-7645

COPI

14 de enero de 2019

RCUD JCA RADICACIONES

14 JAN '19 PM 3:04

Lcda. Tania Vázquez Rivera
Directora Ejecutiva
Junta de Calidad Ambiental
Apartado 11488
Santurce, PR 00910

ATTN: Melvin Menéndez Figueroa
Gerente, Área de Respuesta a Emergencias Ambientales

Re: Fase I en Sabana Village Apartments
856 Calle Juan Pena Reyes
Bo. Rio Piedras, San Juan, PR

Estimada licenciada Vázquez:

Zimmetry Environmental desea realizar un estudio Fase I en una propiedad comercial identificada como Sabana Village Apartments, localizada en 856 Calle Juan Pena Reyes, Bo. Rio Piedras, San Juan, PR.

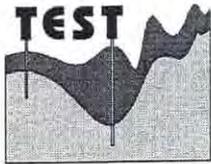
La tarea de realizar el estudio Fase I de la propiedad y su situación ante la Junta de Calidad Ambiental fue asignada a **TEST** Environmental, Inc., compañía de servicios ambientales. Por esta razón, se solicita respetuosamente a la Junta de Calidad Ambiental, Programa de Emergencias Ambientales y Superfondo toda información disponible referente a dicha propiedad.

Es nuestro gran interés el poder tener acceso a cualquier información o documentos públicos vinculados con esta propiedad y sus colindantes que puedan ayudar a clarificar cualquier situación presente en la propiedad.

Gracias anticipadas por la ayuda que nos puedan brindar en este caso. De tener preguntas relacionadas con este estudio favor de comunicarse con nosotros al Tel. (787) 747-7645 o al (787) 374-0182.

Atentamente,

Alvaro Morales, PG, REPA
Geólogo/Gerente Ambiental



TEST Environmental, Inc.
Environmental and GeoDrilling Services
P.O. Box 270311
San Juan, P.R. 00928-3111
Tel. (787) 747-7645

COPIA

14 de enero de 2019

Lcda. Tania Vázquez Rivera
Directora Ejecutiva
Junta de Calidad Ambiental
Apartado 11488
Santurce, PR 00910

ROUD JCA RADICACIONES

14 JAN'19 PM 3:04

ATTN: Área de Control de Contaminación de Terreno

Re: Fase I en Sabana Village Apartments
856 Calle Juan Pena Reyes
Bo. Rio Piedras, San Juan, PR

Estimada licenciada Vázquez:

Zimmetry Environmental desea realizar un estudio Fase I en una propiedad comercial identificada como Sabana Village Apartments, localizada en 856 Calle Juan Pena Reyes, Bo. Rio Piedras, San Juan, PR.

La tarea de realizar el estudio Fase I de la propiedad y su situación ante la Junta de Calidad Ambiental fue asignada a **TEST** Environmental, Inc., compañía de servicios ambientales. Por esta razón, se solicita respetuosamente a la Junta de Calidad Ambiental, Área de Control de Contaminación de Terreno toda información disponible referente a dicha propiedad.

Es nuestro gran interés el poder tener acceso a cualquier información o documentos públicos vinculados con esta propiedad que puedan ayudar a clarificar cualquier situación presente en la propiedad.

Gracias anticipadas por la ayuda que nos puedan brindar en este caso. De tener preguntas relacionadas con este estudio favor de comunicarse con nosotros al Tel. (787) 747-7645 o al (787) 374-0182.

Atentamente,

Álvaro Morales, PG, REPA
Geólogo/Gerente Ambiental

APPENDIX N
SITE RECOINNAISSANCE SHEET

ENVIRONMENTAL SITE ASSESSMENT SITE INSPECTION CHECKLIST

This checklist, its design, format and text, are property of TEST Environmental, Inc. and are provided solely for the company's internal use. Distribution outside of the company is prohibited except by express written permission.

I. GENERAL INFORMATION

Inspection Date 1-16-19 Environmental Evaluator Alvaro Morales
Property Name Sabana Village Apartments
Site Address 856 Juan Peña St., San Juan, PR
Telephone 787-294-1051, 1049 Fax —
Site Contact (s) & Title (s) Milly Colón - Administrator
Current Site Owner LCS Apartment Ltd.
Date Current Owner took title or is in operation December 2000
Size of Property _____ square meters/cuerdas

Any building on the property ___ No Yes, how many? 1

Any structures on the property ___ No Yes, how many? 1

Describe:

#1 Apartments buildings complex
#2 Parking area, basketball court
#3 Generator room with above storage tank (AST) diesel,
#4 it has a concrete dike.

II. SITE EXTERIOR

Uses of property

What are the current uses of the property?

___ vacant, developed land ___ vacant, undeveloped land

___ industrial _____ commercial _____

___ recreational _____

___ agricultural ___ cropland ___ pasture ___ hayland ___ irrigated

___ natural ___ forest ___ prairie ___ other _____

residential ___ other / unknown _____

What were the past uses of the property? *If known, indicate dates.*

___ vacant, developed land vacant, undeveloped land *(before 1999)*
___ industrial _____ ___ commercial _____
___ recreational _____
___ agricultural ___ cropland ___ pasture ___ hayland ___ irrigated
___ natural ___ forest ___ prairie ___ other _____
___ residential ___ other / unknown _____

Site Characteristics

Topography

flat land ___ hilly terrain ___ high elevation relative to adjacent lands ___ low elevation relative to adjacent lands
___ dry land ___ swampy land ___ rock outcrops
___ slope: slope direction/drainage _____
___ evidence of fill _____

Storm Drainage

___ well-drained ___ naturally drained controlled, piped drainage ___ controlled, open drainage ___ poorly drained
Receiver: ___ municipal storm sewer ___ municipal sanitary sewer ___ general environment ___ collection pond
___ surface water body: _____

Vegetation Yes ___ No

Type: maintained lawn ___ decorative shrubs/trees ___ invasive vegetation ___ forest
___ other _____

Signs of stress or damage *NO*

List herbicides and pesticides used and stores on site: _____

Surface Description

___ rocks ___ clay ___ top soil asphalt/concrete ___ sand ___ silt ___ gravel other/unknown *lawn areas*
___ quarries ___ excavations ___ mounds ___ pits
___ evidence soil erosion ___ no ___ yes: describe _____

Physical signs of contamination

none observed ___ stained surface ___ evidence of dumping ___ unnatural soil ___ foul or unusual odours
___ trash/debris

Surface Water

no surface water

Describe: _____

Quality: _____

Is there standing water on the site? ___ Yes No

Due to: ___ impervious surfaces ___ subsidence ___ plugged drainage systems ___ abnormal water table
___ surface contours ___ other? _____

___ pits ___ impoundments ___ lagoons none

Describe: size, location, construction materials, purpose, contents, lining, general conditions, freeboard, leaks.

Physical signs of contamination

___ none observed
___ oily sheens or discolouration of surface water
___ foul or unusual odours
___ evidence of dumping
___ trash/debris

Drinking Water Source

Municipal system ___ Well - treated ___ Surface water-treated ___ Trucked in/cistern/bottled
___ Well - untreated ___ Surface water - untreated

Housekeeping

Describe site housekeeping. good ___ fair ___ poor

Are there any obvious signs of contamination observed on or around the property.

none observed ___ foul or unusual odours
___ oily sheen or discoloration of surface water ___ trash / debris
___ stained soil or concrete ___ leachate seeps
___ vegetation damage ___ unnatural soil

Describe:

III. ENVIRONMENTAL ISSUES MASTER INVENTORY

Environmental Issue	Yes	No
1. Are there any chemical-using activities on the site? Chemicals containers or drums? <i>If yes, please complete Checklist #1.</i>		<input checked="" type="checkbox"/>
2. Are chemicals; oils or fuels; or hazardous or bio-hazardous wastes stored: 5a. in aboveground storage tanks? <i>If yes, please complete Checklist #2a.</i> 5b. in underground storage tanks? <i>If yes, please complete Checklist #2b.</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
3. Are there any air conditioners on the site? How many? <u>1 main office</u>	<input checked="" type="checkbox"/>	
4. Are there transformers, capacitors, gauges or switches or fluorescent light ballasts known or suspected to contain PCB's? <i>If yes, please complete Checklist #3.</i>		<input checked="" type="checkbox"/>
5. Are solid wastes, other than domestic trash, generated? <i>If yes, please complete Checklist #4.</i>		<input checked="" type="checkbox"/>
6. Are hazardous or bio-hazardous wasted, generated? <i>If yes, please complete Checklist #5.</i>		<input checked="" type="checkbox"/>
7. Does wastewater discharge locally (eg. septic tank, local treatment system)? Are liquid waste streams, other than domestic sewage, generated? <i>If yes, explain.</i>		<input checked="" type="checkbox"/>

#2, The diesel AST is located in the first floor and is inside a concrete dike, next to the generator.

Checklist #1: Materials Storage/Handling

- Containers and Drums

N/A

Description of storage area(s): <u>N/A</u>		
Secondary Containment <u> </u> Y <u> </u> N	Floor drain near <u> </u> Y <u> </u> N	Absorbents <u> </u> Y <u> </u> N
Chemical Name	Quantity	Type
<i>(This section is crossed out with a diagonal line)</i>		

Types: 1 = Explosive

5 = Oxidizer

8 = Corrosive

2 = Compressed Gas

6 = Poison

9 = Miscellaneous

3 = Flammable / combustible

7 = Radioactive

L = Oil / Lubricant

Checklist #2a: Materials Storage

- Aboveground Storage Tanks (AST's)

	AST #1	AST #2	AST #3	AST #4
Content	Diesel	/	/	/
Capacity	approx. 550gal.	/	/	/
Location	First floor	/	/	/
Construction Material	steel	/	/	/
Active / Inactive	Active / Inactive	Active / Inactive	Active / Inactive	Active / Inactive
Secondary Containment	Yes / No	Yes / No	Yes / No	Yes / No
Leaks/spills	Yes / No	Yes / No	Yes / No	Yes / No

Notes: /

Checklist #2b: Materials Storage

- Underground Storage Tanks (UST's)

N/A

	UST #1	UST #2	UST #3	UST #4
Content	Diesel	/	/	/
Capacity	/	/	/	/
Location	/	/	/	/
Construction Material	/	/	/	/
Active / Inactive	Active / Inactive	Active / Inactive	Active / Inactive	Active / Inactive
Leaks/spills	Yes / No	Yes / No	Yes / No	Yes / No

Notes: /

Checklist #3: Polychlorinated Biphenyls (PCB's)

N/A

Equipment	Location	Suspected	Confirmed
Transformers (owned by power provider)	/	/	/
Transformers (owned by property owner)	/	/	/
Capacitors	/	/	/
Lamp Ballasts	/	/	/
Other	/	/	/

Notes: /

Checklist #4: Solid Wastes

Waste Type		Waste Type	
<input checked="" type="checkbox"/>	Paper	<input checked="" type="checkbox"/>	Glass
<input checked="" type="checkbox"/>	Cardboard	<input checked="" type="checkbox"/>	Wood
<input checked="" type="checkbox"/>	Plastic	<input checked="" type="checkbox"/>	Tires
<input type="checkbox"/>	Wiping rags	<input checked="" type="checkbox"/>	Metal
<input type="checkbox"/>	Sewage sludge	<input checked="" type="checkbox"/>	Other (specify)

Notes:
/

Checklist #5: Hazardous / Bio-hazardous Wastes

Waste Type	Source	Approximate Quantity
Glycol	/	/
Solvent	/	/
Wet-cell batteries	/	/
PCB -containing ballasts	/	/
Other (specify)	/	/

Notes:
/

IV. ADJACENT PROPERTIES

NORTH

Land Use

- commercial
- industrial
- residential
- agricultural
- natural
- other: _____

- vacant, developed land
- vacant, undeveloped land
- unknown

Roads Local roads: Calle Las Brisas
Topography level area
Surface water drainage direction north
Surface description concrete/asphalt

Do the adjacent properties have any activities, chemical storage areas, above or underground storage tanks, waste dumps, or other conditions that could affect the subject property? yes (explain) no unknown

Names of neighbouring businesses: Residential area: Jardines de Sellés Public
Residential.

SOUTH

Land Use

- commercial
- industrial
- residential
- agricultural
- natural
- other: _____

- vacant, developed land
- vacant, undeveloped land
- unknown

Roads Calle Las Brisas (Industrial access road)
Topography level area
Surface water drainage direction north
Surface description concrete/asphalt

Do the adjacent properties have any activities, chemical storage areas, above or underground storage tanks, waste dumps, or other conditions that could affect the subject property? yes (explain) no unknown

Names of neighbouring businesses: Savana Llana Industrial Park:
J. Saad Nazer, Inc.; Garden Goods Sales (gardening products); Velazquez
Hydraulic Service, Inc.; RM Paint Distributors.

EAST

Land Use

- commercial
- industrial
- residential
- agricultural
- natural
- other: _____

- vacant, developed land
- vacant, undeveloped land
- unknown

Roads Street 5

Topography level area

Surface water drainage direction north

Surface description concrete/asphalt

Do the adjacent properties have any activities, chemical storage areas, above or underground storage tanks, waste dumps, or other conditions that could affect the subject property? yes (explain) no unknown

Names of neighbouring businesses: Reparto Sevilla residential area.

WEST

Land Use

- commercial
- industrial
- residential
- agricultural
- natural
- other: _____

- vacant, developed land
- vacant, undeveloped land
- unknown

Roads Juan Peña Reyes Street

Topography level area

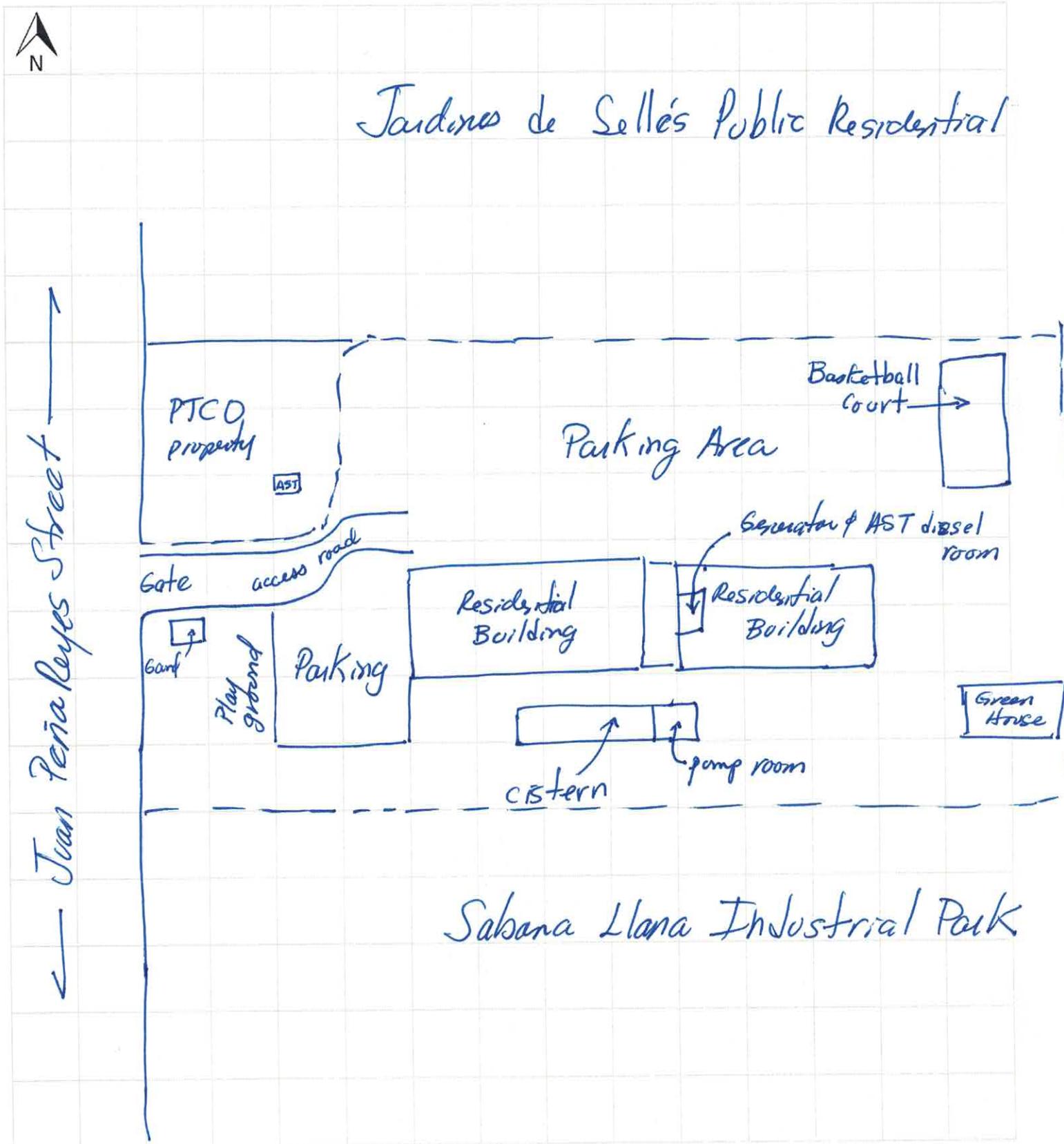
Surface water drainage direction north

Surface description concrete/asphalt

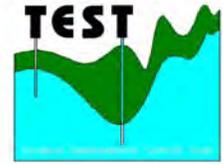
Do the adjacent properties have any activities, chemical storage areas, above or underground storage tanks, waste dumps, or other conditions that could affect the subject property? yes (explain) no unknown

Names of neighbouring businesses: Urb. Las Delicias residential area

PROPERTY DIAGRAM



APPENDIX O
QUALIFICATION OF
ENVIRONMENTAL PROFESSIONAL



Alvaro Morales - Vargas

Professional Geologist / Environmental Manger

Mr. Morales demonstrated accomplishments over 25 years of experience in technical, coordination, environmental, health & safety, and management of environmental issues and environmental assessment projects.

Registration

- Registered Professional Geologist, Certified by the P.R. Board of Professionals Geologist, PG #021, San Juan, PR.
- Registered Environmental Property Assessor (REPA), Certified by the National Registry of Environmental Professionals, REPA #6140, San Juan, PR.
- Environmental and Safety Compliance Officer (CESCO), Certified by the National Registry of Environmental Professionals, CESCO #637580212, San Juan, PR.

Professional Affiliations

- National Registry of Environmental Professionals
- Sociedad Geológica de Puerto Rico

Fields of Competence

- Phase I & Phase II Environmental Site Assessments
- Environmental Permitting
- Project Documentation
- Health & Safety Compliance (OSHA & PROSHA)
- Underground Injection Control Systems (UIC)
- Storm Water Pollution Prevention Plans
- Spill Prevention Control and Countermeasure Plans

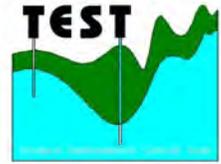
- Environmental Drilling (direct-push) and Sampling
- Remediation of impacted soil and groundwater
- Monitoring Well Installation and Groundwater
- Underground Storage Tank Management

Education

- Certification Program for "Profesional Autorizado" Training Course, completed 64 hours training at the Colegio de Ingenieros y Agrimensores de PR (CIAPR), San Juan, PR, 2015
- Master in Science in Geospatial Science and Technology, includes three different technologies that are all related to mapping features on the surface of the earth. These three technologies systems are GIS (Geographic Information Systems), Remote Sensing and GPS (Global Positioning Systems), Polytechnic University of Puerto Rico, Department of Geomatic Science, Land Surveying and Mapping, Hato Rey, San Juan, PR, 2015
- Bachelor in Science in Land Surveying and Mapping, Polytechnic University of Puerto Rico, Department of Geomatic Science, Land Surveying and Mapping, Hato Rey, San Juan, PR, 2011
- Bachelor in Science in Geology, University of Puerto Rico, Department of Geology, Mayaguez Campus, Mayaguez, PR, 1985

Technical Courses

- Environmental Evaluations for Commercial Transactions ASTM 1527-05
- OSHA Hazardous Waste Operation and Emergency Response 40-Hrs Training (in compliance with 29 CFR 1910.120)
- OSHA Hazardous Waste Operation and Emergency Response 8-Hrs Training (in compliance with 29 CFR 1910.120)



Languages

- Spanish, native speaker
- English

Key Industry Sectors

- Oil & Gas
- Government
- Real State & Land Developers

Key Projects

Compliance Support

- Preparation of Construction and Operation permits for Underground Injection Control (UIC) systems for several confidential clients.
- Prepared and submitted the environmental documents required by EQB in the permit process of the following Air Emission Point Source Permit, Erosion and Sedimentation Control Permit, UST Registry Certification and for several confidential clients.

Site Investigation & Risk Management

- Project Manager for Oil & Gas clients- Petroleum site investigations which included the development and review of Sampling Protocols, Environmental, Health & Safety Plan and Sampling QA/QC. Also provided oversight of field activities that included soil sampling, groundwater monitoring well installation, coordination of groundwater and soil sample deliveries. Some of the clients are Santa Paula Oil Corp., Sol Puerto Rico Ltd., Independent Service Stations, etc.

Remediation & Constructions Management

- Project Manager for site remediation projects. Provided oversight of field activities that included soil sampling, groundwater monitoring well installation, coordination of groundwater and soil sample deliveries.

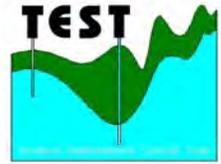
- Project Manager - coordinated and manager of remediation, soil and water sampling, permitting, soil drilling, well installation, health and safety plans projects.
- Project Coordinator - supervised and coordinated different projects assignments and evaluation of field activities to determine the necessity of remedial action plans and operation of recovery systems.
- Project Coordinator - supervised and coordinated different projects assignments, Site Characterization activities, Phase I and II projects and evaluation of field activities. Preparation, coordination and implementation of Remedial Action Plans at several stations.
- Manage and coordinate support activities for affiliated companies in the permitting, remediating, construction in Puerto Rico.

Transaction Services (Phase I & II)

- Project Manager for multiple Banks of Puerto Rico commercial properties Phase I & Phase II Environmental Site Assessments.
- Project Manager for several service station and commercial properties Phase I & II Environmental Site Assessments for variety of clients.

Other Experience

- EQB's Environmental Inspector for the Superfund Division. Coordinated investigations, reviewed all available information and evaluated the source and nature of hazardous substances to determine if a responsible party can be identified.
- EQB's Environmental Inspector for the UIC Program. Collection and reviewed information of underground injection systems by means of inspections and permits evaluations. Trained in the use of



field instrumentation, and environmental health and safety issues.

- EQB's Senior Environmental Technician for the UST Program. Supervised and coordinated work concerning underground storage tanks (UST) state regulations.

Environmental Assessment Association



hereby certifies that

Harry Pena

*has been granted this certificate following successful
completion of all course work and
examination requirements of the*

Certified Environmental Inspector

a self-development training session sponsored by the

Environmental Assessment Association

Signed and presented this 14th Day of March, 2005

A handwritten signature in black ink, appearing to read 'Robert G. Johnson', is written over a horizontal line.

Executive Director
Robert G. Johnson

Technical &
Professional
Training



Harry Pena

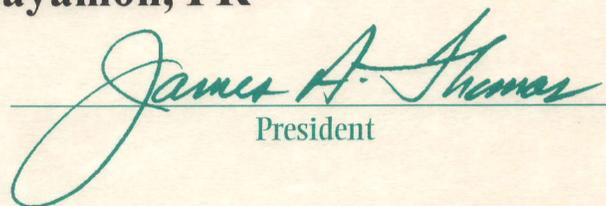
**Is Designated An Approved
Instructor For The ASTM Phase
I & Phase II Environmental Site
Assessment Training Courses**

And Is Awarded 2.8 CEUs

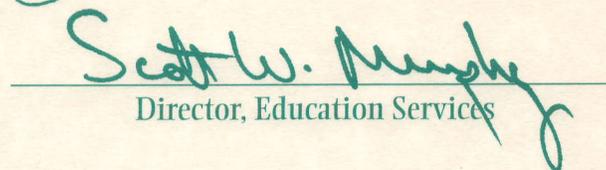
*for successful completion of
the course on*

**ASTM Phase I & Phase II
Environmental Site Assessment
Processes Train-the-Trainer**

**April 25-28, 2005
Bayamon, PR**



President



Director, Education Services

U.S. ENVIRONMENTAL PROTECTION AGENCY

This certifies that

HARRY PENA
has completed the

HAZARDOUS MATERIALS INCIDENT RESPONSE OPERATIONS (165.5)
Training Course

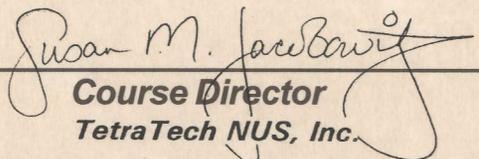
Edison, New Jersey
August 5 - 9, 2002

Presented by the

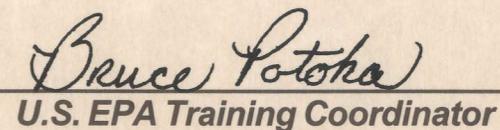
OFFICE OF EMERGENCY AND REMEDIAL RESPONSE

3.7 Continuing Education Units

*This course meets the 29 CFR 1910.120(e)(3)(i) requirements of a minimum of 40 hours
of off-site safety training for hazardous waste site workers.*



Course Director
TetraTech NUS, Inc.



U.S. EPA Training Coordinator

National Registry of Environmental Professionals

Be it known to all persons that the following individual pursuant to the requirements for education, experience and examination established by the National Registry of Environmental Professionals is entitled to all of the rights and privileges by the body and to be duly registered by it.

This is to certify that

Alvaro Morales

is a

Registered Environmental Property Assessor

This certificate will remain valid only if it bears the seal of the current year, unless revoked, suspended or invalidated by order of the Board of Directors of the National Registry of Environmental Professionals.



Witness our hand

3/15/2006

This Day _____

Richard Rebozo, Ph.D.
Executive Director

Registration Number: **REPA 6140**

EXHIBIT C

ASBESTOS CONTAINING BUILDING MATERIALS INSPECTION REPORT

FOR

SABANA VILLAGE APARTMENTS L.L.C.

SAMPLING CONDUCTED AT
SABANA LLANA APARTMENTS
BARRIO SABANA LLANA
RÍO PIEDRAS, SALINAS PUERTO RICO

PROJECT: ZEM-16220

AUGUST 31, 2016

PREPARED BY:
ZIMMETRY ENVIRONMENTAL MANAGEMENT CORP.
PO BOX 3545 BAYAMÓN, PR 00958
PHONE: 787.376.9010 FAX: 787.995.0005
WEB PAGE: WWW.ZIMMETRY.COM
EMAIL: INFO@ZIMMETRY.COM

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SECTION 1: EXECUTIVE SUMMARY

1.1 INTRODUCTION

An Asbestos Containing Building Materials (ACBM) inspection was conducted on August 30, 2016 at the Sabana Village Apartments located at Barrio Sabana Llana in Rio Piedras, Puerto Rico. The asbestos containing building materials sampling was performed to identify material that contains asbestos fibers above allowable levels that could result in harm to construction personnel, workers and assist with the compliance of local, state and federal regulations.

1.2 SUMMARY OF PROPERTY EVALUATION

The project consisted in the evaluation of the aforementioned property. The main structure was built in the early years 2,000's. The results obtained reflect that there were **no** asbestos fibers above the regulatory limits on the analyzed samples from the inspected areas. No sampling of roofing material was performed.

SECTION 2: ASBESTOS CONTAINING MATERIALS INSPECTION REPORT

2.1 OVERVIEW OF THE EVALUATION

This ACBM inspection is an evaluation to identify the location of material containing asbestos that exist within. The main structure was built in the early years 2,000's. Our scope of work services for this project consisted of the following tasks.

- A walk-through and observation of the site was performed.
- Bulk sampling of Suspected ACBM within the structure.
- Polarized Light Microscopy (PLM) Analysis of bulk samples.
- Final Inspection Report.

Throughout the inspection of the following suspected ACBM were observed and sampled:

- Vinyl Floor Tiles
- Spray-on Ceiling Finish

The sampling was conducted by Puerto Rico EQB and United States Environmental Protection Agency (USEPA) accredited Inspectors qualified by experience, education and training in the recognition of potential ACBM and approved bulk sampling techniques. Some areas may not have been directly accessible due to the physical hazards encountered within. In these areas assumptions based on findings in other areas were made whenever possible. These assumptions are duly noted as such in this report.

The inspection was performed in accordance with Environmental Protection Agency recommended procedures found in EPA-450/2-78-014 (Parts I and II), EPA 560/5-85-024, and 40 CFR 763. These procedures call for the visual inspection of the building for suspect friable material and collection and analysis of representative samples of suspect material.

2.2 SAMPLING PROCEDURE AND RESULTS PRESENTATION

The bulk sampling procedures utilized for the collection of the ACBM, required the establishment of homogeneous sampling areas. A homogeneous sampling area is defined as an area of friable or non-friable material of similar type that appears to be applied or constructed during the same time period.

Samples collected from these predetermined homogeneous sampling areas were labeled and transported for analysis. Sample locations were identified by their current use or functional space name. Each type of asbestos displays a unique property when subject to PLM. Properties are unique to crystalline asbestos form and; therefore, can be used to identify the type of asbestos mineral as chrysotile, amosite, crocidolite, anthophyllite, tremolite and actinolite.

Percentage of each asbestos mineral type is determined by visual estimation, by mixing the sample thoroughly to provide a more accurate percentage. Any material containing over one percentage (>1%) by weight of any type of asbestos mineral forms is considered by the USEPA to be asbestos containing material; and if disturbed, it must be handled according to specific State and Federal Regulations.

Twenty Eight (28) samples of suspected material were collected. It is our opinion that an acceptable minimum number of critical areas were sampled in keeping with the homogeneous nature of much of the material that was observed. Non-destructive sampling techniques were used. If they exist, walls, ceilings, columns and other inaccessible areas were not broken into. It should be noted that these inaccessible areas may contain ACBM which was not observed during the inspection. Any future construction or renovation should anticipate the presence of these materials.

The samples were received and analyzed by Analytical Environmental Services, Inc. in Atlanta GA (Certified Proficient by the National Institute of Science and Technology NVLAP program for bulk sample asbestos analysis; Laboratory Id 102082-0). The method of analysis was polarized light microscopy with dispersion staining, as recommended by the US EPA. This survey focused on the building materials, which are present throughout the interior and exterior of the building structure.

2.3 SURVEY RESULTS

2.3.1 INTRODUCTION

During the inspection the results obtained reflect that there were no asbestos fibers on the analyzed samples.

2.3.2 HOMOGENEOUS AREAS WITH SPECIAL CONSIDERATIONS

NONE

2.3.3 SUSPECT MATERIALS PRESUMED TO BE ASBESTOS-CONTAINING MATERIALS WITHOUT LABORATORY ANALYSIS

NONE

2.3.4 INACCESSIBLE AREAS

NONE

2.4 CONDITIONS AND LIMITATIONS—DISCLAIMER

Zimmetry Environmental Management Corp. has performed this asbestos containing building materials inspection in a thorough and professional manner consistent with commonly accepted industry standards. The Preparer cannot guarantee and does not warrant that this evaluation has identified all adverse environmental factors and/or conditions affecting this property on the date of the evaluation. No sampling of the roofing material was performed.

The results reported and conclusions reached by the Preparer are solely for the benefit of the Owner and occupants. The results and opinions in this report, based solely on the conditions

found at the property on the date of the evaluation, are valid only on that date. The Preparer assumes no obligation to advise the client of any changes in any real or potential asbestos hazards at this structure beyond the date of the property evaluation.

2.5 ENVIRONMENTAL ASSESSMENT REPORT CERTIFICATION

Zimmetry Environmental Management Corp. has performed this asbestos containing building materials inspection in a thorough and professional manner consistent with commonly accepted industry standards. The inspection was conducted on August 30, 2016 by Ramón Rosado, state-certified inspector ASB-1015-0512-SI, and Harry Peña, state-certified inspector ASB-0216-0081-SI qualified by experience, education and training in the recognition of asbestos containing materials and approved sampling techniques.



Harry Peña Ruiz, MSEM
Asbestos Inspector

SECTION 3: APPENDICES

Appendix A: Laboratory Results and Chain of Custody

Appendix B: Certifications, Licenses, and Accreditations

APPENDIX A: LABORATORY RESULTS AND CHAIN OF
CUSTODY

1608P39

ZIMMETRY ENVIRONMENTAL MANAGEMENT CORP.

PO BOX 3545 BAYAMÓN, PR 00958

Phone (787)995-0005

email: hpena@zimmetry.com Web: www.zimmetry.com

Analytical Environmental Services, Inc.

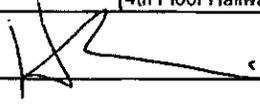
3080 Presidential Drive, Atlanta GA 30340-3704

Phone (770) 457-8177 Fax (770) 457-8188

CHAIN OF CUSTODY
BULK ASBESTOS SAMPLE

Project Name: Sabana Village Apartments Contact: Harry Peña
 Project Location: San Juan, PR Samplers Name: Ramón Rosado
 Project Number: ZEM-16220 Sampling Date: 8/30/2016

	Sample ID	Sample Description	Sample Location	Analysis Requested	Turnaround Time	Comments	For AES Use Only
1	16220-01	Cream Vinyl Tile (12x12)	1st Floor Laundry	PLM	Rush	Same Day	
2	16220-02	Cream Vinyl Tile (12x12)	Apt. G10 Kitchen Closet	PLM	Rush	Same Day	
3	16220-03	Cream Vinyl Tile (12x12)	Administration Office Closet	PLM	Rush	Same Day	
4	16220-04	Cream Vinyl Tile (12x12)	Apt. 120 Kitchen	PLM	Rush	Same Day	
5	16220-05	Cream Vinyl Tile (12x12)	Apt. 115 Room - 1 Closet	PLM	Rush	Same Day	
6	16220-06	Cream Vinyl Tile (12x12)	Apt. 222 Kitchen Closet	PLM	Rush	Same Day	
7	16220-07	Cream Vinyl Tile (12x12)	2nd Floor Hallway	PLM	Rush	Same Day	
8	16220-08	Cream Vinyl Tile (12x12)	Apt. 224 Room - 1 Closet	PLM	Rush	Same Day	
9	16220-09	Cream Vinyl Tile (12x12)	Apt. 304 Room - 3 Closet	PLM	Rush	Same Day	
10	16220-10	Cream Vinyl Tile (12x12)	Apt. 310 Kitchen Closet	PLM	Rush	Same Day	
11	16220-11	Cream Vinyl Tile (12x12)	4th Floor Hallway	PLM	Rush	Same Day	
12	16220-12	Cream Vinyl Tile (12x12)	Apt. 404 Room - 1 Closet	PLM	Rush	Same Day	
13	16220-13	Cream Vinyl Tile (12x12)	Apt. 411 Room - 2 Closet	PLM	Rush	Same Day	
14	16220-14	Cream Vinyl Tile (12x12)	Apt. 525 Hall Closet	PLM	Rush	Same Day	
15	16220-15	Cream Vinyl Tile (12x12)	Apt. 505 Room - 1 Closet	PLM	Rush	Same Day	
16	16220-16	Spray-on Ceiling	Apt. 505 Bathroom	PLM	Rush	Same Day	
17	16220-17	Spray-on Ceiling	Apt. 525 Living Room	PLM	Rush	Same Day	
18	16220-18	Spray-on Ceiling	Apt. 411 Room - 2	PLM	Rush	Same Day	
19	16220-19	Spray-on Ceiling	Apt. 404 Room - 3	PLM	Rush	Same Day	
20	16220-20	Spray-on Ceiling	4th Floor Hallway	PLM	Rush	Same Day	

Relinquished by: Harry Peña  Date/Time: 08/30/2016 16:00
 Received by: _____ Date/Time: _____

FOR LAB USE ONLY

Lab Recipient: Juanita Hillis Date/Time: 8/31/16 10:25am Method of Shipment: FedEx



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

Bulk Sample Summary Report



Lab Code 102082-0

31-Aug-16

Client Name:	Zimmetry Environmental Mgmt Corp.	AES Job Number:	1608P39
Project Name:	SABANA VILLAGE APARTMENTS	Project Number:	ZEM-16220

Client ID	AES ID	Location	Asbestos Mineral Percentage						Comments
			CH	AM	CR	AN	TR	AC	
16220-01 Layer: 1	1608P39-001A	Cream Vinyl Tile (12x12)	ND	ND	ND	ND	ND	ND	Floor tile
16220-01 Layer: 2	1608P39-001A	Cream Vinyl Tile (12x12)	ND	ND	ND	ND	ND	ND	Glue
16220-01 Layer: 3	1608P39-001A	Cream Vinyl Tile (12x12)	ND	ND	ND	ND	ND	ND	Black Mastic
16220-02 Layer: 1	1608P39-002A	Cream Vinyl Tile (12x12)	ND	ND	ND	ND	ND	ND	Floor tile
16220-02 Layer: 2	1608P39-002A	Cream Vinyl Tile (12x12)	ND	ND	ND	ND	ND	ND	Glue
16220-02 Layer: 3	1608P39-002A	Cream Vinyl Tile (12x12)	ND	ND	ND	ND	ND	ND	Black Mastic

Note: CH=chrysotile, AM=amosite, CR=crocidolite, AC=actinolite, TR=tremolite, AN=anthophyllite

For comments on the samples, see the individual analysis sheets.

ND = None Detected

AES, Inc. is accredited by NIST's National Voluntary Laboratory Accreditation Program (NVLAP) for Polarized Light Microscopy (PLM) analysis, Lab Code 102082-0. All analyses performed in accordance with EPA "Interim Method for the Determination of Asbestos in Bulk Insulation Samples" (EPA 600/M4-82-020), 1982 as found in 40 CFR, Part 763, Appendix E to Subpart E and "Method for the Determination of Asbestos in Bulk Building Materials" (EPA/600/R-93/116), 1993.

These test results apply only to those samples actually tested, as submitted by the client. All percentages are reported by visually estimated volume. PLM is not consistently reliable in detecting small concentrations of asbestos in floor tiles and similar nonfriable materials, quantitative TEM is currently the only method that can be used to determine conclusive asbestos content.

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Microanalyst:

Elena Ivanova

QC Analyst:

Yelena Khanina



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

Bulk Sample Summary Report



Lab Code 102082-0

31-Aug-16

Client Name:	Zimmetry Environmental Mgmt Corp.	AES Job Number:	1608P39
Project Name:	SABANA VILLAGE APARTMENTS	Project Number:	ZEM-16220

Client ID	AES ID	Location	Asbestos Mineral Percentage						Comments
			CH	AM	CR	AN	TR	AC	
16220-03 Layer: 1	1608P39-003A	Cream Vinyl Tile (12x12)	ND	ND	ND	ND	ND	ND	Floor tile
16220-03 Layer: 2	1608P39-003A	Cream Vinyl Tile (12x12)	ND	ND	ND	ND	ND	ND	Black Mastic
16220-04 Layer: 1	1608P39-004A	Cream Vinyl Tile (12x12)	ND	ND	ND	ND	ND	ND	Floor tile
16220-04 Layer: 2	1608P39-004A	Cream Vinyl Tile (12x12)	ND	ND	ND	ND	ND	ND	Black Mastic
16220-05 Layer: 1	1608P39-005A	Cream Vinyl Tile (12x12)	ND	ND	ND	ND	ND	ND	Floor tile
16220-05 Layer: 2	1608P39-005A	Cream Vinyl Tile (12x12)	ND	ND	ND	ND	ND	ND	Black Mastic

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ND = None Detected

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QC Analyst:

Yelena Khanina



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Lab Code 102082-0

31-Aug-16

Client Name:	Zimmetry Environmental Mgmt Corp.	AES Job Number:	1608P39
Project Name:	SABANA VILLAGE APARTMENTS	Project Number:	ZEM-16220

Client ID	AES ID	Location	Asbestos Mineral Percentage						Comments
			CH	AM	CR	AN	TR	AC	
16220-06 Layer: 1	1608P39-006A	Cream Vinyl Tile (12x12)	ND	ND	ND	ND	ND	ND	Floor tile
16220-06 Layer: 2	1608P39-006A	Cream Vinyl Tile (12x12)	ND	ND	ND	ND	ND	ND	Black Mastic
16220-07 Layer: 1	1608P39-007A	Cream Vinyl Tile (12x12)	ND	ND	ND	ND	ND	ND	Floor tile
16220-07 Layer: 2	1608P39-007A	Cream Vinyl Tile (12x12)	ND	ND	ND	ND	ND	ND	Black Mastic
16220-08 Layer: 1	1608P39-008A	Cream Vinyl Tile (12x12)	ND	ND	ND	ND	ND	ND	Floor tile
16220-08 Layer: 2	1608P39-008A	Cream Vinyl Tile (12x12)	ND	ND	ND	ND	ND	ND	Black Mastic

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ND = None Detected

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Project Name:	SABANA VILLAGE APARTMENTS	Project Number:	ZEM-16220

Client ID	AES ID	Location	Asbestos Mineral Percentage						Comments
			CH	AM	CR	AN	TR	AC	
16220-09 Layer: 1	1608P39-009A	Cream Vinyl Tile (12x12)	ND	ND	ND	ND	ND	ND	Floor tile
16220-09 Layer: 2	1608P39-009A	Cream Vinyl Tile (12x12)	ND	ND	ND	ND	ND	ND	Black Mastic
16220-10 Layer: 1	1608P39-010A	Cream Vinyl Tile (12x12)	ND	ND	ND	ND	ND	ND	Floor tile
16220-10 Layer: 2	1608P39-010A	Cream Vinyl Tile (12x12)	ND	ND	ND	ND	ND	ND	Black Mastic
16220-11 Layer: 1	1608P39-011A	Cream Vinyl Tile (12x12)	ND	ND	ND	ND	ND	ND	Floor tile
16220-11 Layer: 2	1608P39-011A	Cream Vinyl Tile (12x12)	ND	ND	ND	ND	ND	ND	Glue

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Yelena Khanina



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Bulk Sample Summary Report



Lab Code 102082-0

31-Aug-16

Client Name:	Zimmetry Environmental Mgmt Corp.	AES Job Number:	1608P39
Project Name:	SABANA VILLAGE APARTMENTS	Project Number:	ZEM-16220

Client ID	AES ID	Location	Asbestos Mineral Percentage						Comments
			CH	AM	CR	AN	TR	AC	
16220-12 Layer: 1	1608P39-012A	Cream Vinyl Tile (12x12)	ND	ND	ND	ND	ND	ND	Floor tile
16220-12 Layer: 2	1608P39-012A	Cream Vinyl Tile (12x12)	ND	ND	ND	ND	ND	ND	Black Mastic
16220-13 Layer: 1	1608P39-013A	Cream Vinyl Tile (12x12)	ND	ND	ND	ND	ND	ND	Floor tile
16220-13 Layer: 2	1608P39-013A	Cream Vinyl Tile (12x12)	ND	ND	ND	ND	ND	ND	Black Mastic
16220-14 Layer: 1	1608P39-014A	Cream Vinyl Tile (12x12)	ND	ND	ND	ND	ND	ND	Floor tile
16220-14 Layer: 2	1608P39-014A	Cream Vinyl Tile (12x12)	ND	ND	ND	ND	ND	ND	Black Mastic

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Microanalyst:



Elena Ivanova

QC Analyst:



Yelena Khanina



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

Bulk Sample Summary Report



Lab Code 102082-0

31-Aug-16

Client Name:	Zimmetry Environmental Mgmt Corp.	AES Job Number:	1608P39
Project Name:	SABANA VILLAGE APARTMENTS	Project Number:	ZEM-16220

Client ID	AES ID	Location	Asbestos Mineral Percentage						Comments
			CH	AM	CR	AN	TR	AC	
16220-15 Layer: 1	1608P39-015A	Cream Vinyl Tile (12x12)	ND	ND	ND	ND	ND	ND	Floor tile
16220-15 Layer: 2	1608P39-015A	Cream Vinyl Tile (12x12)	ND	ND	ND	ND	ND	ND	Black Mastic
16220-16 Layer: 1	1608P39-016A	Spray-on Ceiling	ND	ND	ND	ND	ND	ND	Paint included as binder
16220-17 Layer: 1	1608P39-017A	Spray-on Ceiling	ND	ND	ND	ND	ND	ND	Paint included as binder
16220-18 Layer: 1	1608P39-018A	Spray-on Ceiling	ND	ND	ND	ND	ND	ND	Paint included as binder
16220-19 Layer: 1	1608P39-019A	Spray-on Ceiling	ND	ND	ND	ND	ND	ND	Paint included as binder

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For comments on the samples, see the individual analysis sheets.

ND = None Detected

AES, Inc. is accredited by NIST's National Voluntary Laboratory Accreditation Program (NVLAP) for Polarized Light Microscopy (PLM) analysis, Lab Code 102082-0. All analyses performed in accordance with EPA "Interim Method for the Determination of Asbestos in Bulk Insulation Samples" (EPA 600/M4-82-020), 1982 as found in 40 CFR, Part 763, Appendix E to Subpart E and "Method for the Determination of Asbestos in Bulk Building Materials" (EPA/600/R-93/116), 1993.

These test results apply only to those samples actually tested, as submitted by the client. All percentages are reported by visually estimated volume.

PLM is not consistently reliable in detecting small concentrations of asbestos in floor tiles and similar nonfriable materials, quantitative TEM is currently the only method that can be used to determine conclusive asbestos content.

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Microanalyst:


Elena Ivanova

QC Analyst:


Yelena Khanina



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

Bulk Sample Summary Report



Lab Code 102082-0

31-Aug-16

Client Name:	Zimmetry Environmental Mgmt Corp.	AES Job Number:	1608P39
Project Name:	SABANA VILLAGE APARTMENTS	Project Number:	ZEM-16220

Client ID	AES ID	Location	Asbestos Mineral Percentage						Comments
			CH	AM	CR	AN	TR	AC	
16220-20 Layer: 1	1608P39-020A	Spray-on Ceiling	ND	ND	ND	ND	ND	ND	Paint included as binder

Note: CH=chrysotile, AM=amosite, CR=crocidolite, AC=actinolite, TR=tremolite, AN=anthophyllite

For comments on the samples, see the individual analysis sheets.

ND = None Detected

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Microanalyst:



Elena Ivanova

QC Analyst:



Yelena Khanina

1608P42

ZIMMETRY ENVIRONMENTAL MANAGEMENT CORP.

PO BOX 3545 BAYAMÓN, PR 00958

Phone (787)995-0005

email: hpena@zimmetry.com Web: www.zimmetry.com

Analytical Environmental Services, Inc.

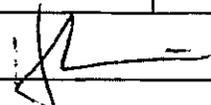
3080 Presidential Drive, Atlanta GA 30340-3704

Phone (770) 457-8177 Fax (770) 457-8188

CHAIN OF CUSTODY
BULK ASBESTOS SAMPLE

Project Name: Sabana Village Apartments Contact: Harry Peña
 Project Location: San Juan, PR Samplers Name: Ramón Rosado
 Project Number: ZEM-16220 Sampling Date: 8/30/2016

	Sample ID	Sample Description	Sample Location	Analysis Requested	Turnaround Time	Comments	For AES Use Only
1	16220-21	Spray-on Ceiling	Apt. 310 Living Room	PLM	Rush	Same Day	
2	16220-22	Spray-on Ceiling	Apt. 304 Room - 3	PLM	Rush	Same Day	
3	16220-23	Spray-on Ceiling	Apt. 224 Room - 1	PLM	Rush	Same Day	
4	16220-24	Spray-on Ceiling	2nd Floor Hallway	PLM	Rush	Same Day	
5	16220-25	Spray-on Ceiling	Apt. 222 Kitchen	PLM	Rush	Same Day	
6	16220-26	Spray-on Ceiling	Apt. 115 Room - 1	PLM	Rush	Same Day	
7	16220-27	Spray-on Ceiling	Apt. 120 Bathroom	PLM	Rush	Same Day	
8	16220-28	Spray-on Ceiling	Apt. G10 Living Room	PLM	Rush	Same Day	
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

Relinquished by: Harry Peña  Date/Time: 08/30/2016 16:00
 Received by: _____ Date/Time: _____

FOR LAB USE ONLY

Lab Recipient: James Ahilla Date/Time: 8/31/16 10:25am Method of Shipment: Fedex



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

Bulk Sample Summary Report



Lab Code 102082-0

31-Aug-16

Client Name: Zimmetry Environmental Mgmt Corp.	AES Job Number: 1608P42
Project Name: SABANA VILLAGE APARTMENTS	Project Number: ZEM-16220

Client ID	AES ID	Location	Asbestos Mineral Percentage						Comments
			CH	AM	CR	AN	TR	AC	
16220-21 Layer: 1	1608P42-001A	Spray - on Ceiling	ND	ND	ND	ND	ND	ND	Paint included as binder
16220-22 Layer: 1	1608P42-002A	Spray - on Ceiling	ND	ND	ND	ND	ND	ND	Paint included as binder
16220-23 Layer: 1	1608P42-003A	Spray - on Ceiling	ND	ND	ND	ND	ND	ND	Paint included as binder
16220-24 Layer: 1	1608P42-004A	Spray - on Ceiling	ND	ND	ND	ND	ND	ND	Paint included as binder
16220-25 Layer: 1	1608P42-005A	Spray - on Ceiling	ND	ND	ND	ND	ND	ND	Paint included as binder
16220-26 Layer: 1	1608P42-006A	Spray - on Ceiling	ND	ND	ND	ND	ND	ND	Paint included as binder

Note: CH=chrysotile, AM=amosite, CR=crocidolite, AC=actinolite, TR=tremolite, AN=anthophyllite

For comments on the samples, see the individual analysis sheets.

ND = None Detected

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These test results apply only to those samples actually tested, as submitted by the client. All percentages are reported by visually estimated volume. PLM is not consistently reliable in detecting small concentrations of asbestos in floor tiles and similar nonfriable materials, quantitative TEM is currently the only method that can be used to determine conclusive asbestos content.

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Microanalyst:

Elena Ivanova

QC Analyst:

Yelena Khanina



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

Bulk Sample Summary Report



Lab Code 102082-0

31-Aug-16

Client Name:	Zimmetry Environmental Mgmt Corp.	AES Job Number:	1608P42
Project Name:	SABANA VILLAGE APARTMENTS	Project Number:	ZEM-16220

Client ID	AES ID	Location	Asbestos Mineral Percentage						Comments
			CH	AM	CR	AN	TR	AC	
16220-27 Layer: 1	1608P42-007A	Spray - on Ceiling	ND	ND	ND	ND	ND	ND	Paint included as binder
16220-28 Layer: 1	1608P42-008A	Spray - on Ceiling	ND	ND	ND	ND	ND	ND	Paint included as binder

Note: CH=chrysotile, AM=amosite, CR=crocidolite, AC=actinolite, TR=tremolite, AN=anthophyllite

For comments on the samples, see the individual analysis sheets.

ND = None Detected

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Microanalyst:



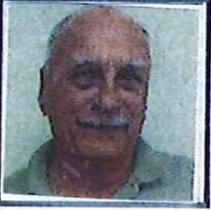
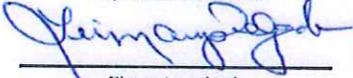
Elena Ivanova

QC Analyst:



Yelena Khanina

APPENDIX B: CERTIFICATIONS, LICENSES, AND ACCREDITATIONS

	TARJETA DE REGISTRO PARA LA REMOCION DE ASBESTO Esta tarjeta autoriza a: Ramón Rosado Inspector A trabajar en la categoría indicada. Esta persona NO es un empleado, ni un representante de la Junta
ASB-1015-0512-SI Número de Registro	
18-oct-2016 Fecha de vencimiento	Firma Autorizada Junta de Calidad Ambiental

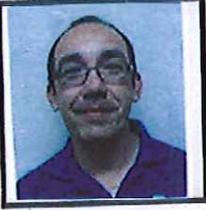
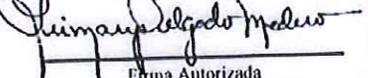
	TARJETA DE REGISTRO PARA LA REMOCION DE ASBESTO Esta tarjeta autoriza a: Harry Peña Ruiz Inspector A trabajar en la categoría indicada. Esta persona NO es un empleado, ni un representante de la Junta
ASB-0216-0081-SI Número de Registro	
04-feb-2017 Fecha de vencimiento	Firma Autorizada Junta de Calidad Ambiental

EXHIBIT D

LEAD BASED PAINT INSPECTION REPORT

FOR

SABANA VILLAGE APARTMENTS LLC

SAMPLING CONDUCTED AT
SABANA LLANA APARTMENTS
BARRIO SABANA LLANA
RÍO PIEDRAS, SALINAS PUERTO RICO

PROJECT: ZEM-16220

AUGUST 30, 2016

PREPARED BY:
ZIMMETRY ENVIRONMENTAL MANAGEMENT CORP.
PO BOX 3545 BAYAMÓN, PR 00958
PHONE: 787.376.9010 FAX: 787.995.0005
WEB PAGE: WWW.ZIMMETRY.COM
EMAIL: INFO@ZIMMETRY.COM

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SECTION 1: EXECUTIVE SUMMARY

1.1 INTRODUCTION

A Lead-Based Paint inspection was conducted on August 30, 2016 at the Sabana Village Apartments located at Barrio Sabana Llana in Rio Piedras, Puerto Rico. The **lead-based paint inspection** was performed to identify paint that contains lead above allowable levels that could result in harm to construction personnel, workers and especially to young children. This evaluation report can help Owners develop a plan for eliminating any lead-based paint hazards that were found, and may aid in establishing an ongoing lead-based paint maintenance and re-evaluation program, if needed

1.2 SUMMARY OF PROPERTY EVALUATION

The project consisted of the evaluation of selective interior dwelling units and exterior areas of the aforementioned structure. According to the information provided the project was constructed in year 2000. No lead based paint or lead containing components were identified at the interior of the structure, common areas and playground equipment. The evaluation found that lead-based paint was present in exterior parking pavement markings. Table 1-1 identifies the components positive for lead. Table 2-1 identifies lead-based paint as defined by the U.S. Environmental Protection Agency (EPA) and the Environmental Quality Board (EQB). For specific locations and additional detail on the location of lead-based paint reference Sections 2 and 3.

1.3 PROPERTY LOCATIONS OF BUILDING COMPONENTS WITH LEAD-BASED PAINT

Table 1-1 summarizes the side components coated with lead-based paint. Details that identify positive lead-based paint findings within specific areas and on surfaces were provided in the Lead-based paint inspection report. The "substrate" is the building component material directly beneath the painted surface. The quantification of positives materials presented in this table is only an estimate. If an abatement of the materials will be conducted the contractors shall estimate the amount of materials to be abated. Photographic documentation and floor plans is for reference purposes and doesn't include all the surfaces with lead based paint and/or components containing lead.

Table 1-1: Summary of Components with Lead Based Paint				
Area	Component	Color	Substrate	Area / Amount (Approx.)
EXTERIOR	Parking Pavement Markings	Yellow	Concrete/ Asphalt	45 Ft ²

SECTION 2: LEAD-BASED PAINT INSPECTION REPORT

2.1 OVERVIEW OF THE EVALUATION

This lead-based paint inspection is an interior and exterior investigation to identify all lead-based paint on a surface-by-surface basis. A lead-based paint inspection conforming to HUD guidelines was performed at the structure. Since the project was built after 1978 (year 2000) two random dwelling units per floor were selected for inspection as selective common areas.

Averages of 624 samples were taken at all identified surfaces on the interior and exterior areas of the evaluated structure using X-ray fluorescence (XRF) analyzer. The evaluation found that lead-based paint was present in selective surfaces and components through the evaluated areas of the referenced structure on the date of the assessment (See Table 1-1).

Some of the remaining XRF test locations exhibited lead-in-paint levels below the level that EPA identifies as lead-based paint, namely 1.0 mg/cm². Such surfaces could create dust-lead or soil-lead hazards if the paint is turned into dust by abrasion, scraping, or sanding. Should these or any lead containing components or surfaces be disturbed in any manner that generates dust, care should be taken to limit its spread.

Testing was performed by Harry Peña, state-certified risk assessor 7389-0316-RA-002, using the Niton XLp-300A XRF, SN-25492. The credentials are provided in Section 3, Appendix B: Certifications, Licenses, and Accreditations. The XRF analyzer is designed to measure the lead content of surface coatings on a variety of building surfaces, substrates, and components. The measurement is rapid and nondestructive and, according to the manufacturer, is capable of detecting lead concentrations that occur within numerous layers of various surface coatings.

Please refer to the XRF Testing Results Section 3, Appendix C: XRF Sampling Data for the detailed analytical testing results for each distinct area inspected. The reports provide a complete testing data.

2.2 SAMPLING PROCEDURE AND RESULTS PRESENTATION

The Lead Based Paint Sampling Procedure was design to evaluate and document all the data obtained form the inspection in a sequential method that provided confidence at the moment of the results presentation.

The survey was performed following the methodology established in the HUD Guidelines for the Evaluation and Control of Lead Based Paint in Housing (2012 revision) and the PREQB Lead Based Paint Abatement Control Regulation. The surfaces evaluation was performed as follows:

- If the lead concentration measured by the XRF Spectrum Analyzer is less than 1.0 mg/cm² it is considered negative.
- If the lead concentration measured by the XRF Spectrum Analyzer is equal or greater than 1.0 mg/cm² it is considered positive.

To each functional space of the property a name was assigned according to the use of that space. If no name could be assigned then a code letter or number was assigned. The room numbers will be assigned clockwise as you enter the structure and go towards the left always. Each wall surface was named with letters beginning with wall A the wall facing main street; the wall at your left will be wall B, the wall at front wall C and the wall at you right will be wall D.

2.3 LEAD REGULATORY LEVELS

The lead regulatory levels provided below are those used when preparing this lead-based paint evaluation or when evaluating data collected. The EPA regulatory levels are the same as the state regulatory levels provided in the following table.

TABLE 2-1: LEAD REGULATORY LEVELS	
	EPA/EQB Levels
Lead-Based Paint	1.0 mg/cm ² or 0.5% by weight (or 5,000 ppm)

2.4 CONDITIONS AND LIMITATIONS—DISCLAIMER

Zimmetry Environmental Management Corp. has performed this lead-based paint inspection in a thorough and professional manner consistent with commonly accepted industry standards. The Preparer cannot guarantee and does not warrant that this evaluation has identified all adverse environmental factors and/or conditions affecting this property on the date of the evaluation.

The results reported and conclusions reached by the Preparer are solely for the benefit of the Owner. The results and opinions in this report, based solely on the conditions found at the property on the date of the evaluation, are valid only on that date. The Preparer assumes no obligation to advise the client of any changes in any real or potential lead-based paint hazards at this residence beyond the date of the property evaluation.

The lead inspection was performed to ready accessible components and surfaces. If suspected components that could contain lead are encountered underneath current installed tiles or other construction material, they shall be managed as containing lead until the appropriate test is performed.

2.5 ABATEMENT CONDITIONS

Abatement, as defined by HUD and the Puerto Rico Environmental Quality Board (EQB), means any set of measures designed to eliminate lead-based paint and/or lead-based paint hazards permanently. The people providing these services must to be trained in accordance with the EQB licensing/certification requirements. The product manufacturer and/or contractor must warrant abatement methods to last a minimum of 20 years, or these methods must have a design life of at least 20 years.

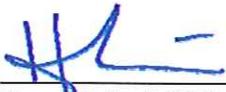
Abatement activities may include, but are not necessarily limited to:

- onsite or offsite removal of lead-based paint from substrates and components
- replacement of components or fixtures painted with lead-based paint
- permanent enclosure of lead-based paint with construction materials mechanically-fastened to the substrate
- encapsulation of lead-based paint with specially designed encapsulant products
- removal or permanent covering (concrete or asphalt) of soil-lead-based paint hazards

If enclosure or encapsulation is conducted as an abatement method, the lead-based paint remains on the property, so ongoing lead-based paint maintenance is required.

2.6 ENVIRONMENTAL ASSESSMENT REPORT CERTIFICATION

Zimmetry Environmental Management Corp. has performed this lead-based paint inspection in a thorough and professional manner consistent with commonly accepted industry standards. The inspection was conducted on August 30, 2016 by Harry Peña, state-certified risk assessor 7389-0316-RA-002, qualified by experience, education and training in the recognition of lead based paint and approved sampling techniques using the Niton XLP-300A XRF, SN-25492.



Harry Peña, MSEM
Environmental Risk Assessor

SECTION 3: APPENDICES

Appendix A: Project Photographs

Appendix B: Certifications, Licenses, and Accreditations

Appendix C: XRF Sampling Data

Appendix D: XRF's Performance Characteristics Sheet

APPENDIX A: PROJECT PHOTOGRAPHS



Exterior Parking Area
Lead based painted parking pavement marking



Exterior Parking Area
Lead based painted parking pavement marking

Photographic documentation is for reference purposes only and doesn't necessarily include all the materials and areas positive to lead based paint or contain lead

APPENDIX B: CERTIFICATIONS, LICENSES, AND ACCREDITATIONS

	<p>ESTADO LIBRE ASOCIADO DE PUERTO RICO OFICINA DEL GOBERNADOR JUNTA DE CALIDAD AMBIENTAL</p>	
<p>Este certificado es otorgado a:</p>		
<p>Zimmetry Environmental Management Corp. (# s social: 66-0606404)</p>		
<p><i>Por haber cumplido con los requisitos establecidos en el Capítulo V, Regla 1341, sección B.1) del Reglamento para el Control de Actividades de Mitigación de Pintura con Base de Plomo. Se le otorga una certificación en la disciplina de</i></p>		
<p>Empresa</p>		
<p><i>Para llevar a cabo actividades de mitigación de pintura con base de plomo en la jurisdicción de Puerto Rico</i></p>		
<p>Número de Certificado 6547 - 0216 - LF - 005</p>		
<p><i>Este certificado está sujeto a ser revocado, suspendido, modificado o enmendado debido a causas que incluyan evidencia de no cumplimiento, información falsa provista en la solicitud o por cualquier alteración que afecte la habilidad de llevar a cabo las tareas efectivamente.</i></p>		
<p>Fecha de emisión: 03 de marzo de 2016 Fecha de expiración: 02 de marzo de 2017</p>	 Sr. Weldin P. Ortiz Franco Director Ejecutivo	

APPENDIX B: CERTIFICATIONS, LICENSES, AND ACCREDITATIONS



CUSTOMER TRAINING

Thermo Scientific Niton XRF Analyzer Operator's Training Certificate

This is to certify that

Harry Pena

has successfully completed the Thermo Fisher Scientific Niton XRF Analyzer Operational Training Course. The topics of this course include device configuration, sample preparation, safe operation and analysis, Interpretation of results, and routine maintenance of the Thermo Scientific Niton XRF Analyzer.

Course date: 2014-08-06
Location: Bayamon Puerto Rico
Certificate Number: OP0036000001JXJMd

Customer Training Certificate

Randy Wertz
Director, America Sales

Part of Thermo Fisher Scientific

Thermo SCIENTIFIC

APPENDIX C: XRF SAMPLING DATA

PROJECT:	Sabana Village Apartments					CLIENT: Lucha		
DATE:	8/30/2016		Apartment 525			LBP Inspector: Harry Peña		
Sample ID.	Functional Space	Side	Component	Subst.	Color	XRF Reading	Pos/Neg	Comments
1	Calibration					1.00		
2	Calibration					1.00		
3	Calibration					1.00		
4	Kitchen / Living Room	A	Door	Wood	Brown	0.00	Negative	
5	Kitchen / Living Room	A	Door Casing	Wood	Brown	0.00	Negative	
6	Kitchen / Living Room	A	Wall	Concrete	Gray	0.00	Negative	
7	Kitchen / Living Room	B	Wall	Concrete	Gray	0.00	Negative	
8	Kitchen / Living Room	C	Wall	Concrete	Gray	0.00	Negative	
9	Kitchen / Living Room	D	Wall	Concrete	Gray	0.00	Negative	
10	Kitchen / Living Room		Ceiling	Concrete	White	0.00	Negative	
11	Kitchen / Living Room	C	Window Shutter	Metal	White	0.00	Negative	
12	Kitchen / Living Room	B	Shelve	Wood	White	0.00	Negative	
13	Kitchen / Living Room	B	Door	Wood	Gray	0.00	Negative	
14	Kitchen / Living Room	D	Wall	Drywall	Cream	0.00	Negative	
15	Kitchen / Living Room	A	Wall Tile	Ceramic	White	0.00	Negative	
16	Hallway	A	Wall	Drywall	Cream	0.00	Negative	
17	Hallway	C	Wall	Drywall	Cream	0.00	Negative	
18	Hallway	D	Wall	Drywall	Cream	0.00	Negative	
19	Hallway	A	Door	Wood	Green	0.00	Negative	
20	Hallway	A	Shelve	Wood	White	0.00	Negative	
21	Hallway		Ceiling	Concrete	White	0.00	Negative	
22	Room - 1	A	Door	Wood	Green	0.00	Negative	
23	Room - 1	A	Door Casing	Wood	Green	0.00	Negative	
24	Room - 1	A	Wall	Drywall	Blue	0.00	Negative	
25	Room - 1	A	Wall	Drywall	Cream	0.00	Negative	
26	Room - 1	B	Wall	Drywall	Blue	0.00	Negative	
27	Room - 1	B	Wall	Drywall	Cream	0.00	Negative	
28	Room - 1	C	Wall	Concrete	Cream	0.00	Negative	
29	Room - 1	D	Wall	Concrete	Cream	0.00	Negative	
30	Room - 1		Ceiling	Concrete	White	0.00	Negative	

PROJECT:	Sabana Village Apartments					CLIENT: Lucha		
DATE:	8/30/2016		Apartment 525			LBP Inspector: Harry Peña		
Sample ID.	Functional Space	Side	Component	Subst.	Color	XRF Reading	Pos/Neg	Comments
31	Room - 1	A	Shelve	Wood	White	0.00	Negative	
32	Room - 1	A	Door	Wood	White	0.00	Negative	
33	Room - 1	C	Window Shutter	Metal	White	0.00	Negative	
34	Room - 2	A	Door	Wood	Green	0.00	Negative	
35	Room - 2	A	Door Casing	Wood	Green	0.00	Negative	
36	Room - 2	A	Wall	Drywall	Cream	0.01	Negative	
37	Room - 2	A	Wall	Drywall	Blue	0.00	Negative	
38	Room - 2	B	Wall	Concrete	Cream	0.00	Negative	
39	Room - 2	C	Wall	Concrete	Cream	0.00	Negative	
40	Room - 2	D	Wall	Drywall	Cream	0.00	Negative	
41	Room - 2		Ceiling	Concrete	White	0.00	Negative	
42	Room - 2	C	Window Shutter	Metal	White	0.02	Negative	
43	Room - 2	A	Door	Wood	Green	0.00	Negative	
44	Room - 2	A	Shelve	Wood	Blue	0.00	Negative	
45	Room - 3	A	Door	Wood	Green	0.00	Negative	
46	Room - 3	A	Door Casing	Wood	Green	0.02	Negative	
47	Room - 3	A	Wall	Drywall	Cream	0.00	Negative	
48	Room - 3	A	Wall	Drywall	Blue	0.00	Negative	
49	Room - 3	B	Wall	Drywall	Cream	0.00	Negative	
50	Room - 3	C	Wall	Concrete	Cream	0.00	Negative	
51	Room - 3	D	Wall	Concrete	Cream	0.00	Negative	
52	Room - 3	C	Window Shutter	Metal	White	0.00	Negative	
53	Room - 3	A	Door	Wood	Green	0.00	Negative	
54	Room - 3	A	Shelve	Wood	Blue	0.00	Negative	
55	Room - 4	A	Wall	Concrete	Cream	0.00	Negative	
56	Room - 4	B	Wall	Drywall	Cream	0.00	Negative	
57	Room - 4	C	Wall	Drywall	Cream	0.00	Negative	
58	Room - 4	C	Wall	Concrete	Blue	0.02	Negative	
59	Room - 4	D	Wall	Concrete	Cream	0.00	Negative	
60	Room - 4	D	Window Shutter	Metal	White	0.00	Negative	

PROJECT:	Sabana Village Apartments					CLIENT: Lucha		
DATE:	8/30/2016		Apartment 525			LBP Inspector: Harry Peña		
Sample ID.	Functional Space	Side	Component	Subst.	Color	XRF Reading	Pos/Neg	Comments
61	Room - 4	C	Door	Wood	Green	0.00	Negative	
62	Room - 4	C	Door Casing	Wood	Green	0.00	Negative	
63	Room - 4	C	Door	Wood	Green	0.00	Negative	
64	Room - 4	C	Shelve	Wood	Blue	0.00	Negative	
65	Bathroom - 1	A	Wall	Concrete	White	0.00	Negative	
66	Bathroom - 1	B	Wall	Drywall	White	0.00	Negative	
67	Bathroom - 1	C	Wall	Drywall	White	0.00	Negative	
68	Bathroom - 1	D	Wall	Drywall	White	0.00	Negative	
69	Bathroom - 1		Ceiling	Drywall	White	0.00	Negative	
70	Bathroom - 1	C	Wall Tile	Ceramic	White	0.00	Negative	
71	Bathroom - 1		Floor Tile	Ceramic	Green	0.00	Negative	
72	Bathroom - 1	D	Door	Wood	Green	0.00	Negative	
73	Bathroom - 1	D	Door Casing	Wood	Green	0.03	Negative	
74	Bathroom - 1	D	Toilet	Ceramic	White	0.00	Negative	
75	Bathroom - 1	D	Lavatory	Ceramic	White	0.00	Negative	
76	Bathroom - 2	A	Wall	Concrete	Cream	0.00	Negative	
77	Bathroom - 2	B	Wall	Concrete	Cream	0.00	Negative	
78	Bathroom - 2	C	Wall	Drywall	Cream	0.00	Negative	
79	Bathroom - 2	D	Wall	Drywall	Cream	0.03	Negative	
80	Bathroom - 2		Ceiling	Drywall	White	0.00	Negative	
81	Bathroom - 2	C	Wall Tile	Ceramic	White	0.00	Negative	
82	Bathroom - 2		Lavatory	Ceramic	White	0.01	Negative	
83	Bathroom - 2		Toilet	Ceramic	White	0.00	Negative	
84	Bathroom - 2	C	Door	Wood	Green	0.00	Negative	
85	Bathroom - 2	C	Door Casing	Wood	Green	0.00	Negative	
86	Bathroom - 2	B	Floor Tile	Ceramic	Green	0.00	Negative	

PROJECT:	Sabana Village Apartments					CLIENT: Lucha		
DATE:	8/30/2016		Apartment 505			LBP Inspector: Harry Peña		
Sample ID.	Functional Space	Side	Component	Subst.	Color	XRF Reading	Pos/Neg	Comments
87	Kitchen / Dinning Room	A	Door	Wood	Green	0.00	Negative	
88	Kitchen / Dinning Room	A	Door Casing	Wood	Green	0.03	Negative	
89	Kitchen / Dinning Room	A	Wall	Concrete	Blue	0.00	Negative	
90	Kitchen / Dinning Room	B	Wall	Drywall	Blue	0.00	Negative	
91	Kitchen / Dinning Room	D	Wall	Drywall	Blue	0.00	Negative	
92	Kitchen / Dinning Room	D	Wall	Concrete	Blue	0.02	Negative	
93	Kitchen / Dinning Room	A	Wall Tile	Ceramic	White	0.00	Negative	
94	Kitchen / Dinning Room		Ceiling	Concrete	White	0.00	Negative	
95	Living Room	B	Wall	Drywall	Blue	0.00	Negative	
96	Living Room	C	Wall	Concrete	Blue	0.00	Negative	
97	Living Room	D	Wall	Drywall	Blue	0.00	Negative	
98	Living Room	C	Window Shutter	Metal	White	0.00	Negative	
99	Living Room		Ceiling	Concrete	White	0.00	Negative	
100	Bathroom	D	Door	Wood	Green	0.00	Negative	
101	Bathroom	D	Door Casing	Wood	Green	0.00	Negative	
102	Bathroom	A	Wall	Concrete	Blue	0.09	Negative	
103	Bathroom	B	Wall	Concrete	Blue	0.00	Negative	
104	Bathroom	C	Wall	Drywall	Blue	0.00	Negative	
105	Bathroom	D	Wall	Drywall	Blue	0.00	Negative	
106	Bathroom	C	Window Shutter	Metal	White	0.00	Negative	
107	Bathroom		Ceiling	Concrete	White	0.02	Negative	
108	Room - 1	A	Door	Wood	Green	0.00	Negative	
109	Room - 1	A	Door Casing	Wood	Green	0.00	Negative	
110	Room - 1	A	Door	Wood	Green	0.00	Negative	
111	Room - 1	A	Shelve	Wood	Green	0.00	Negative	
112	Room - 1	A	Wall	Drywall	Green	0.00	Negative	
113	Room - 1	B	Wall	Concrete	Green	0.01	Negative	
114	Room - 1	C	Wall	Concrete	Green	0.00	Negative	
115	Room - 1	D	Wall	Drywall	Green	0.00	Negative	
116	Room - 1		Ceiling	Concrete	White	0.00	Negative	
117	Room - 1	C	Window Shutter	Metal	White	0.00	Negative	

PROJECT:	Sabana Village Apartments					CLIENT: Lucha		
DATE:	8/30/2016		Apartment 404			LBP Inspector: Harry Peña		
Sample ID.	Functional Space	Side	Component	Subst.	Color	XRF Reading	Pos/Neg	Comments
118	Kitchen / Living Room	A	Door	Wood	Brown	0.03	Negative	
119	Kitchen / Living Room	A	Door Casing	Wood	Brown	0.00	Negative	
120	Kitchen / Living Room	A	Wall	Concrete	Green	0.00	Negative	
121	Kitchen / Living Room	B	Wall	Concrete	Green	0.00	Negative	
122	Kitchen / Living Room	C	Wall	Concrete	Green	0.04	Negative	
123	Kitchen / Living Room	D	Wall	Concrete	Green	0.00	Negative	
124	Kitchen / Living Room		Ceiling	Concrete	White	0.00	Negative	
125	Kitchen / Living Room	D	Door	Wood	Green	0.00	Negative	
126	Kitchen / Living Room	D	Shelve	Wood	Green	0.01	Negative	
127	Hallway	A	Wall	Drywall	Green	0.00	Negative	
128	Hallway	B	Wall	Drywall	Green	0.00	Negative	
129	Hallway	C	Wall	Drywall	Green	0.00	Negative	
130	Hallway	D	Wall	Drywall	Green	0.00	Negative	
131	Hallway		Ceiling	Concrete	White	0.00	Negative	
132	Hallway	A	Door	Wood	Green	0.00	Negative	
133	Hallway	A	Shelve	Wood	Green	0.00	Negative	
134	Bathroom - 1	A	Wall	Concrete	Green	0.02	Negative	
135	Bathroom - 1	B	Wall	Drywall	Green	0.00	Negative	
136	Bathroom - 1	C	Wall	Drywall	Green	0.00	Negative	
137	Bathroom - 1	D	Wall	Concrete	Green	0.00	Negative	
138	Bathroom - 1		Ceiling	Concrete	White	0.00	Negative	
139	Bathroom - 1	C	Wall Tile	Ceramic	White	0.00	Negative	
140	Bathroom - 1	C	Door	Wood	Green	0.00	Negative	
141	Bathroom - 1	C	Door Casing	Wood	Green	0.00	Negative	
142	Bathroom - 1		Lavatory	Ceramic	White	0.01	Negative	
143	Bathroom - 1		Toilet	Ceramic	White	0.00	Negative	
144	Bathroom - 1		Floor Tile	Ceramic	Green	0.00	Negative	
145	Room - 1	A	Wall	Concrete	Green	0.00	Negative	
146	Room - 1	B	Wall	Concrete	Green	0.00	Negative	
147	Room - 1	C	Wall	Drywall	Green	0.00	Negative	

PROJECT:	Sabana Village Apartments					CLIENT: Lucha		
DATE:	8/30/2016		Apartment 404			LBP Inspector: Harry Peña		
Sample ID.	Functional Space	Side	Component	Subst.	Color	XRF Reading	Pos/Neg	Comments
148	Room - 1	D	Wall	Drywall	Green	0.00	Negative	
149	Room - 1		Ceiling	Concrete	White	0.00	Negative	
150	Room - 1	C	Door	Wood	Green	0.00	Negative	
151	Room - 1	C	Door Casing	Wood	Green	0.00	Negative	
152	Room - 1	B	Window Shutter	Metal	White	0.00	Negative	
153	Room - 1	C	Door	Wood	Green	0.00	Negative	
154	Room - 1	C	Shelve	Wood	Green	0.00	Negative	
155	Bathroom - 2	A	Wall	Concrete	Green	0.00	Negative	
156	Bathroom - 2	B	Wall	Drywall	Green	0.00	Negative	
157	Bathroom - 2	C	Wall	Drywall	Green	0.00	Negative	
158	Bathroom - 2	D	Wall	Drywall	Green	0.00	Negative	
159	Bathroom - 2		Ceiling	Concrete	White	0.02	Negative	
160	Bathroom - 2	B	Door	Wood	Green	0.00	Negative	
161	Bathroom - 2	B	Door Casing	Wood	Green	0.00	Negative	
162	Bathroom - 2	B	Wall Tile	Ceramic	White	0.00	Negative	
163	Bathroom - 2		Floor Tile	Ceramic	Green	0.01	Negative	
164	Bathroom - 2		Lavatory	Ceramic	White	0.00	Negative	
165	Bathroom - 2		Toilet	Ceramic	White	0.00	Negative	
166	Room - 2	A	Door	Wood	Green	0.00	Negative	
167	Room - 2	A	Door Casing	Wood	Green	0.00	Negative	
168	Room - 2	A	Wall	Drywall	Green	0.01	Negative	
169	Room - 2	D	Wall	Drywall	Green	0.00	Negative	
170	Room - 2	A	Door	Wood	Green	0.00	Negative	
171	Room - 2	A	Shelve	Wood	Green	0.00	Negative	
172	Room - 2	B	Wall	Concrete	Green	0.00	Negative	
173	Room - 2	C	Wall	Concrete	Green	0.00	Negative	
174	Room - 2	C	Window Shutter	Metal	White	0.00	Negative	
175	Room - 2		Ceiling	Concrete	White	0.00	Negative	
176	Room - 3	A	Door	Wood	Green	0.00	Negative	
177	Room - 3	A	Door Casing	Wood	Green	0.00	Negative	

PROJECT:	Sabana Village Apartments					CLIENT: Lucha		
DATE:	8/30/2016		Apartment 411			LBP Inspector: Harry Peña		
Sample ID.	Functional Space	Side	Component	Subst.	Color	XRF Reading	Pos/Neg	Comments
202	Living Room/ Kitchen	A	Door	Wood	Brown	0.00	Negative	
203	Living Room/ Kitchen	A	Door Casing	Wood	Brown	0.00	Negative	
204	Living Room/ Kitchen	A	Wall	Concrete	Green	0.00	Negative	
205	Living Room/ Kitchen	B	Wall	Concrete	Green	0.00	Negative	
206	Living Room/ Kitchen	B	Wall	Drywall	Green	0.00	Negative	
207	Living Room/ Kitchen	C	Wall	Concrete	Green	0.00	Negative	
208	Living Room/ Kitchen	D	Wall	Drywall	Green	0.01	Negative	
209	Living Room/ Kitchen		Ceiling	Concrete	White	0.00	Negative	
210	Living Room/ Kitchen	A	Wall Tile	Ceramic	White	0.00	Negative	
211	Living Room/ Kitchen	B	Door	Wood	Brown	0.00	Negative	
212	Living Room/ Kitchen	B	Shelve	Wood	Green	0.01	Negative	
213	Living Room/ Kitchen	C	Window Shutter	Metal	White	0.00	Negative	
214	Hallway	A	Wall	Drywall	Green	0.00	Negative	
215	Hallway	B	Wall	Drywall	Green	0.00	Negative	
216	Hallway	C	Wall	Drywall	Green	0.00	Negative	
217	Hallway	D	Wall	Concrete	Green	0.00	Negative	
218	Hallway		Ceiling	Concrete	White	0.00	Negative	
219	Room - 1		Door	Wood	Brown	0.00	Negative	
220	Room - 1	D	Door Casing	Wood	Brown	0.00	Negative	
221	Room - 1	A	Wall	Drywall	Green	0.00	Negative	
222	Room - 1	B	Wall	Drywall	Green	0.00	Negative	
223	Room - 1	C	Wall	Concrete	Green	0.00	Negative	
224	Room - 1	D	Wall	Concrete	Green	0.00	Negative	
225	Room - 1		Ceiling	Concrete	White	0.00	Negative	
226	Room - 1	C	Window Shutter	Metal	White	0.00	Negative	
227	Room - 1	A	Door	Wood	Brown	0.02	Negative	
228	Room - 1	A	Shelve	Wood	Green	0.00	Negative	
229	Room - 2	A	Wall	Concrete	Green	0.00	Negative	
230	Room - 2	B	Wall	Concrete	Green	0.00	Negative	
231	Room - 2	C	Wall	Concrete	Green	0.00	Negative	

PROJECT:	Sabana Village Apartments					CLIENT: Lucha		
DATE:	8/30/2016		Apartment 304			LBP Inspector: Harry Peña		
Sample ID.	Functional Space	Side	Component	Subst.	Color	XRF Reading	Pos/Neg	Comments
251	Living Room / Kitchen	A	Door	Wood	Brown	0.00	Negative	
252	Living Room / Kitchen	A	Door Casing	Wood	Brown	0.00	Negative	
253	Living Room / Kitchen	A	Wall	Concrete	Green	0.00	Negative	
254	Living Room / Kitchen	B	Wall	Concrete	Green	0.00	Negative	
255	Living Room / Kitchen	C	Wall	Concrete	Green	0.00	Negative	
256	Living Room / Kitchen	D	Wall	Concrete	Green	0.00	Negative	
257	Living Room / Kitchen		Ceiling	Concrete	White	0.00	Negative	
258	Living Room / Kitchen	A	Wall Tile	Ceramic	White	0.00	Negative	
259	Living Room / Kitchen	C	Window Shutter	Metal	White	0.00	Negative	
260	Living Room / Kitchen	D	Door	Wood	Brown	0.00	Negative	
261	Living Room / Kitchen	D	Shelve	Wood	Green	0.00	Negative	
262	Hallway	A	Wall	Drywall	Green	0.00	Negative	
263	Hallway	B	Wall	Drywall	Green	0.01	Negative	
264	Hallway	C	Wall	Concrete	Green	0.01	Negative	
265	Hallway	D	Wall	Drywall	Green	0.01	Negative	
266	Hallway		Ceiling	Concrete	White	0.00	Negative	
267	Hallway	A	Door	Wood	Brown	0.00	Negative	
268	Hallway	A	Shelve	Wood	Green	0.00	Negative	
269	Bathroom - 1	A	Wall	Concrete	Green	0.00	Negative	
270	Bathroom - 1	B	Wall	Drywall	Green	0.02	Negative	
271	Bathroom - 1	C	Wall	Drywall	Green	0.00	Negative	
272	Bathroom - 1	D	Wall	Concrete	Green	0.00	Negative	
273	Bathroom - 1		Ceiling	Concrete	White	0.00	Negative	
274	Bathroom - 1	C	Wall Tile	Ceramic	White	0.00	Negative	
275	Bathroom - 1	C	Door	Wood	Brown	0.00	Negative	
276	Bathroom - 1	C	Door Casing	Wood	Brown	0.00	Negative	
277	Bathroom - 1		Lavatory	Ceramic	White	0.00	Negative	
278	Bathroom - 1		Toilet	Ceramic	White	0.00	Negative	
279	Bathroom - 1		Floor Tile	Ceramic	Green	0.00	Negative	
280	Room - 1	A	Wall	Concrete	Green	0.00	Negative	

PROJECT:	Sabana Village Apartments					CLIENT: Lucha		
DATE:	8/30/2016		Apartment 304			LBP Inspector: Harry Peña		
Sample ID.	Functional Space	Side	Component	Subst.	Color	XRF Reading	Pos/Neg	Comments
281	Room - 1	B	Wall	Concrete	Green	0.00	Negative	
282	Room - 1	C	Wall	Drywall	Green	0.00	Negative	
283	Room - 1	D	Wall	Drywall	Green	0.00	Negative	
284	Room - 1		Ceiling	Concrete	White	0.00	Negative	
285	Room - 1	C	Door	Wood	Green	0.00	Negative	
286	Room - 1	C	Door Casing	Wood	Green	0.00	Negative	
287	Room - 1	B	Window Shutter	Metal	White	0.00	Negative	
288	Room - 1	C	Door	Wood	Green	0.00	Negative	
289	Room - 1	C	Shelve	Wood	Green	0.00	Negative	
290	Bathroom - 2	A	Wall	Concrete	Green	0.00	Negative	
291	Bathroom - 2	B	Wall	Drywall	Green	0.00	Negative	
292	Bathroom - 2	C	Wall	Drywall	Green	0.00	Negative	
293	Bathroom - 2	D	Wall	Drywall	Green	0.00	Negative	
294	Bathroom - 2		Ceiling	Concrete	White	0.02	Negative	
295	Bathroom - 2	B	Door	Wood	Green	0.00	Negative	
296	Bathroom - 2	B	Door Casing	Wood	Green	0.00	Negative	
297	Bathroom - 2	C	Wall Tile	Ceramic	White	0.00	Negative	
298	Bathroom - 2		Floor Tile	Ceramic	Green	0.01	Negative	
299	Bathroom - 2		Lavatory	Ceramic	White	0.00	Negative	
300	Bathroom - 2		Toilet	Ceramic	White	0.00	Negative	
301	Room - 2	A	Door	Wood	Green	0.00	Negative	
302	Room - 2	A	Door Casing	Wood	Green	0.00	Negative	
303	Room - 2	A	Wall	Drywall	Green	0.01	Negative	
304	Room - 2	B	Wall	Concrete	Green	0.00	Negative	
305	Room - 2	C	Wall	Concrete	Green	0.00	Negative	
306	Room - 2	D	Wall	Drywall	Green	0.00	Negative	
307	Room - 2		Ceiling	Concrete	White	0.00	Negative	
308	Room - 2	A	Door	Wood	Green	0.00	Negative	
309	Room - 2	A	Shelve	Wood	Green	0.00	Negative	
310	Room - 2	C	Window Shutter	Metal	White	0.00	Negative	
311	Room - 3	A	Door	Wood	Green	0.00	Negative	
312	Room - 3	A	Door Casing	Wood	Green	0.00	Negative	

PROJECT:	Sabana Village Apartments					CLIENT: Lucha		
DATE:	8/30/2016		Apartment 222			LBP Inspector: Harry Peña		
Sample ID.	Functional Space	Side	Component	Subst.	Color	XRF Reading	Pos/Neg	Comments
344	Studio	A	Door	Wood	Green	0.00	Negative	
345	Studio	A	Door Casing	Wood	Green	0.00	Negative	
346	Studio	A	Wall	Concrete	Green	0.00	Negative	
347	Studio	B	Wall	Concrete	Green	0.00	Negative	
348	Studio	C	Wall	Concrete	Green	0.00	Negative	
349	Studio	D	Wall	Concrete	Green	0.01	Negative	
350	Studio		Ceiling	Concrete	White	0.00	Negative	
351	Studio	C	Window Shutter	Metal	White	0.00	Negative	
352	Studio	A	Wall Tile	Ceramic	White	0.00	Negative	
353	Studio	B	Door	Wood	Green	0.00	Negative	
354	Studio	B	Shelve	Wood	Green	0.00	Negative	
355	Bathroom	B	Door	Wood	Green	0.00	Negative	
356	Bathroom	B	Door Casing	Wood	Green	0.00	Negative	
357	Bathroom	A	Wall	Concrete	Green	0.00	Negative	
358	Bathroom	B	Wall	Drywall	Green	0.00	Negative	
359	Bathroom	C	Wall	Concrete	Green	0.00	Negative	
360	Bathroom	D	Wall	Drywall	Green	0.00	Negative	
361	Bathroom	A	Wall Tile	Ceramic	White	0.00	Negative	
362	Bathroom		Floor Tile	Ceramic	Green	0.00	Negative	
363	Bathroom		Lavatory	Ceramic	White	0.00	Negative	
364	Bathroom		Toilet	Ceramic	White	0.00	Negative	
365	Bathroom		Ceiling	Concrete	White	0.02	Negative	
366	Calibration					1.00		
367	Calibration					1.00		
368	Calibration					1.00		

PROJECT:	Sabana Village Apartments					CLIENT: Lucha		
DATE:	8/30/2016		Apartment 224			LBP Inspector: Harry Peña		
Sample ID.	Functional Space	Side	Component	Subst.	Color	XRF Reading	Pos/Neg	Comments
384	Living Room / Kitchen	A	Door	Wood	Green	0.00	Negative	
385	Living Room / Kitchen	A	Door Casing	Wood	Green	0.00	Negative	
386	Living Room / Kitchen	A	Wall	Concrete	Green	0.00	Negative	
387	Living Room / Kitchen	B	Wall	Drywall	Green	0.02	Negative	
388	Living Room / Kitchen	B	Wall	Drywall	Brown	0.00	Negative	
389	Living Room / Kitchen	C	Wall	Concrete	Brown	0.00	Negative	
390	Living Room / Kitchen	D	Wall	Concrete	Green	0.00	Negative	
391	Living Room / Kitchen	D	Wall	Concrete	Brown	0.00	Negative	
392	Living Room / Kitchen	C	Ceiling	Concrete	White	0.00	Negative	
393	Living Room / Kitchen		Wall Tile	Ceramic	White	0.00	Negative	
394	Living Room / Kitchen	C	Window Casing	Metal	White	0.01	Negative	
395	Living Room / Kitchen	D	Door	Wood	Green	0.00	Negative	
396	Living Room / Kitchen	D	Shelve	Wood	Green	0.00	Negative	
397	Bathroom	A	Wall	Concrete	Green	0.00	Negative	
398	Bathroom	B	Wall	Concrete	Green	0.00	Negative	
399	Bathroom	C	Wall	Drywall	Green	0.00	Negative	
400	Bathroom	D	Wall	Drywall	Green	0.02	Negative	
401	Bathroom	A	Wall Tile	Ceramic	White	0.00	Negative	
402	Bathroom		Floor Tile	Ceramic	Green	0.00	Negative	
403	Bathroom		Lavatory	Ceramic	White	0.02	Negative	
404	Bathroom		Toilet	Ceramic	White	0.00	Negative	
405	Bathroom		Ceiling	Concrete	White	0.00	Negative	
406	Bathroom	D	Door	Wood	Green	0.00	Negative	
407	Bathroom	D	Door Casing	Wood	Green	0.00	Negative	
408	Room - 1	A	Door	Wood	Green	0.00	Negative	
409	Room - 1	A	Door Casing	Wood	Green	0.00	Negative	
410	Room - 1	A	Door	Wood	Green	0.00	Negative	
411	Room - 1	A	Shelve	Wood	Green	0.00	Negative	
412	Room - 1	A	Wall	Drywall	Green	0.00	Negative	
413	Room - 1	B	Wall	Concrete	Green	0.00	Negative	

PROJECT:	Sabana Village Apartments					CLIENT: Lucha		
DATE:	8/30/2016		Apartment 115			LBP Inspector: Harry Peña		
Sample ID.	Functional Space	Side	Component	Subst.	Color	XRF Reading	Pos/Neg	Comments
441	Living Room/ Kitchen	A	Door	Wood	Brown	0.00	Negative	
442	Living Room/ Kitchen	A	Door Casing	Wood	Brown	0.00	Negative	
443	Living Room/ Kitchen	A	Wall	Concrete	Green	0.00	Negative	
444	Living Room/ Kitchen	B	Wall	Drywall	Green	0.00	Negative	
445	Living Room/ Kitchen	C	Wall	Concrete	Green	0.00	Negative	
446	Living Room/ Kitchen	D	Wall	Drywall	Green	0.01	Negative	
447	Living Room/ Kitchen		Ceiling	Concrete	White	0.00	Negative	
448	Living Room/ Kitchen	A	Wall Tile	Ceramic	White	0.00	Negative	
449	Living Room/ Kitchen	B	Door	Wood	Brown	0.01	Negative	
450	Living Room/ Kitchen	B	Shelve	Wood	Green	0.00	Negative	
451	Living Room/ Kitchen	C	Window Shutter	Metal	White	0.00	Negative	
452	Hallway	A	Wall	Drywall	Green	0.00	Negative	
453	Hallway	B	Wall	Drywall	Green	0.00	Negative	
454	Hallway	C	Wall	Drywall	Green	0.00	Negative	
455	Hallway	D	Wall	Drywall	Green	0.00	Negative	
456	Hallway		Ceiling	Concrete	White	0.00	Negative	
457	Bathroom	C	Door	Wood	Brown	0.00	Negative	
458	Bathroom	C	Door Casing	Wood	Brown	0.00	Negative	
459	Bathroom	A	Wall	Concrete	Green	0.00	Negative	
460	Bathroom	B	Wall	Concrete	Green	0.00	Negative	
461	Bathroom	C	Wall	Drywall	Green	0.01	Negative	
462	Bathroom	D	Wall	Drywall	Green	0.00	Negative	
463	Bathroom	A	Wall Tile	Ceramic	White	0.00	Negative	
464	Bathroom		Floor Tile	Ceramic	Green	0.00	Negative	
465	Bathroom		Lavatory	Ceramic	White	0.00	Negative	
466	Bathroom		Toilet	Ceramic	White	0.00	Negative	
467	Bathroom		Ceiling	Concrete	White	0.00	Negative	
468	Room - 1		Door	Wood	Brown	0.00	Negative	
469	Room - 1	D	Door Casing	Wood	Brown	0.00	Negative	
470	Room - 1	C	Window Shutter	Metal	White	0.00	Negative	

PROJECT:	Sabana Village Apartments					CLIENT: Lucha		
DATE:	8/30/2016		Apartment G-10			LBP Inspector: Harry Peña		
Sample ID.	Functional Space	Side	Component	Subst.	Color	XRF Reading	Pos/Neg	Comments
488	Living Room / Kitchen	A	Door	Wood	Brown	0.00	Negative	
489	Living Room / Kitchen	A	Door Casing	Wood	Brown	0.00	Negative	
490	Living Room / Kitchen	A	Wall	Concrete	Cream	0.00	Negative	
491	Living Room / Kitchen	B	Wall	Concrete	Cream	0.00	Negative	
492	Living Room / Kitchen	C	Wall	Concrete	Cream	0.00	Negative	
493	Living Room / Kitchen	D	Wall	Drywall	Cream	0.00	Negative	
494	Living Room / Kitchen		Ceiling	Concrete	Drywall	0.00	Negative	
495	Living Room / Kitchen	A	Wall Tile	Ceramic	White	0.00	Negative	
496	Living Room / Kitchen	C	Window Shutter	Metal	White	0.00	Negative	
497	Living Room / Kitchen	D	Door	Wood	Green	0.00	Negative	
498	Living Room / Kitchen	D	Shelve	Wood	Green	0.01	Negative	
499	Bathroom	A	Wall	Concrete	Green	0.00	Negative	
500	Bathroom	B	Wall	Drywall	Green	0.00	Negative	
501	Bathroom	C	Wall	Drywall	Green	0.00	Negative	
502	Bathroom	D	Wall	Concrete	Green	0.00	Negative	
503	Bathroom	A	Wall Tile	Ceramic	White	0.01	Negative	
504	Bathroom		Floor Tile	Ceramic	Green	0.00	Negative	
505	Bathroom		Lavatory	Ceramic	White	0.00	Negative	
506	Bathroom		Toilet	Ceramic	White	0.03	Negative	
507	Bathroom		Ceiling	Concrete	White	0.00	Negative	
508	Bathroom	B	Door	Wood	Brown	0.00	Negative	
509	Bathroom	B	Door Casing	Wood	Brown	0.00	Negative	
510	Room - 1	A	Door	Wood	Brown	0.00	Negative	
511	Room - 1	A	Door Casing	Wood	Brown	0.00	Negative	
512	Room - 1	A	Door	Wood	Green	0.00	Negative	
513	Room - 1	A	Shelve	Wood	Green	0.00	Negative	
514	Room - 1	A	Wall	Drywall	Green	0.00	Negative	
515	Room - 1	B	Wall	Drywall	Green	0.00	Negative	
516	Room - 1	C	Wall	Concrete	Green	0.00	Negative	
517	Room - 1	D	Wall	Concrete	Green	0.00	Negative	

PROJECT:	Sabana Village Apartments					CLIENT: Lucha		
DATE:	8/30/2016		LBP Inspector: Harry Peña					
Sample ID.	Functional Space	Side	Component	Subst.	Color	XRF Reading	Pos/Neg	Comments
555	Exterior	A	Wall	Concrete	Cream	0.00	Negative	
556	Exterior	A	Wall	Concrete	Green	0.00	Negative	
557	Exterior	A	Wall	Concrete	Gray	0.00	Negative	
558	Exterior	A	Wall	Concrete	Cream	0.00	Negative	
559	Exterior	A	Wall	Concrete	Cream	0.00	Negative	
560	Exterior	A	Wall	Concrete	Gray	0.00	Negative	
561	Exterior	A	Wall	Concrete	Green	0.00	Negative	
562	Exterior	A	Wall	Concrete	Gray	0.00	Negative	
563	Exterior	A	Wall	Concrete	Cream	0.00	Negative	
564	Exterior	A	Grille	Metal	Brown	0.00	Negative	
565	Exterior	A	Grille	Metal	Brown	0.00	Negative	
566	Exterior	B	Wall	Concrete	Cream	0.00	Negative	
567	Exterior	B	Wall	Concrete	Cream	0.00	Negative	
568	Exterior	B	Wall	Concrete	Cream	0.00	Negative	
569	Exterior	C	Wall	Concrete	Gray	0.00	Negative	
570	Exterior	C	Wall	Concrete	Cream	0.00	Negative	
571	Exterior	C	Wall	Concrete	Cream	0.00	Negative	
572	Exterior	C	Wall	Concrete	Cream	0.00	Negative	
573	Exterior	C	Wall	Concrete	Gray	0.00	Negative	
574	Exterior	C	Wall	Concrete	Cream	0.00	Negative	
575	Exterior	C	Wall	Concrete	Cream	0.00	Negative	
576	Exterior	D	Wall	Concrete	Cream	0.00	Negative	
577	Exterior	D	Wall	Concrete	Cream	0.00	Negative	
578	Exterior	D	Grille	Metal	Brown	0.00	Negative	
579	Exterior	D	Wall	Metal	Brown	0.00	Negative	
580	Exterior	D	Wall	Concrete	Cream	0.00	Negative	

PROJECT:	Sabana Village Apartments					CLIENT: Lucha		
DATE:	8/30/2016		Exterior			LBP Inspector: Harry Peña		
Sample ID.	Functional Space	Side	Component	Subst.	Color	XRF Reading	Pos/Neg	Comments
581	Parking		Curb	Concrete	Yellow	0.20	Negative	
582	Parking		Curb	Concrete	Yellow	0.03	Negative	
583	Parking		Curb	Concrete	Yellow	0.10	Negative	
584	Parking		Curb	Concrete	Yellow	0.20	Negative	
585	Parking		Curb	Concrete	Yellow	0.10	Negative	
586	Parking		Wheel Stop	Concrete	Yellow	0.20	Negative	
587	Parking		Parking Line	Concrete	Yellow	2.50	Positive	
588	Parking		Wheel Stop	Concrete	Yellow	0.06	Negative	
589	Parking		Parking Line	Concrete	Yellow	1.40	Positive	
590	Parking		Wheel Stop	Concrete	Yellow	0.00	Negative	
591	Parking		Parking Line	Concrete	Yellow	1.30	Positive	
592	Parking		Parking Line	Concrete	Yellow	2.30	Positive	
593	Parking		Parking Line	Concrete	Yellow	1.40	Positive	
594	Parking		Wheel Stop	Concrete	Yellow	0.00	Negative	
595	Parking		Wheel Stop	Concrete	Yellow	0.02	Negative	
596	Parking		Parking Line	Concrete	Yellow	0.50	Negative	
597	Parking		Parking Line	Concrete	Yellow	0.80	Negative	
598	Parking		Wheel Stop	Concrete	Yellow	0.01	Negative	
599	Parking		Wheel Stop	Concrete	Yellow	0.03	Negative	
600	Parking		Curb	Concrete	Yellow	0.00	Negative	
601	Parking		Curb	Concrete	Yellow	0.00	Negative	
602	Parking		Curb	Concrete	Yellow	0.00	Negative	
603	Parking		Wheel Stop	Concrete	Yellow	0.00	Negative	
604	Parking		Wheel Stop	Concrete	Yellow	0.00	Negative	
605	Parking		Parking Line	Concrete	Yellow	0.80	Negative	
606	Parking		Parking Line	Concrete	Yellow	1.10	Positive	
607	Parking		Curb	Concrete	Blue	0.00	Negative	
608	Parking		Ramp	Concrete	Blue	0.00	Negative	

APPENDIX D: XRF's PERFORMANCE CHARACTERISTICS
SHEET

Performance Characteristic Sheet

EFFECTIVE DATE: September 24, 2004

EDITION NO.: 1

MANUFACTURER AND MODEL:

Make: Niton LLC

Tested Model: XLP 300

Source: ^{109}Cd

Note: This PCS is also applicable to the equivalent model variations indicated below, for the Lead-in-Paint K+L variable reading time mode, in the XLi and XLP series:

XLi 300A, XLi 301A, XLi 302A and XLi 303A.

XLP 300A, XLP 301A, XLP 302A and XLP 303A.

XLi 700A, XLi 701A, XLi 702A and XLi 703A.

XLP 700A, XLP 701A, XLP 702A, and XLP 703A.

Note: The XLi and XLP versions refer to the shape of the handle part of the instrument. The differences in the model numbers reflect other modes available, in addition to Lead-in-Paint modes. The manufacturer states that specifications for these instruments are identical for the source, detector, and detector electronics relative to the Lead-in-Paint mode.

FIELD OPERATION GUIDANCE

OPERATING PARAMETERS:

Lead-in-Paint K+L variable reading time mode.

XRF CALIBRATION CHECK LIMITS:

0.8 to 1.2 mg/cm² (inclusive)

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 readings are outside the acceptable calibration check range, follow the manufacturer's instructions to bring the instruments into control before XRF testing proceeds.

SUBSTRATE CORRECTION:

For XRF results using Lead-in-Paint K+L variable reading time mode, substrate correction is not needed for:

Brick, Concrete, Drywall, Metal, Plaster, and Wood

INCONCLUSIVE RANGE OR THRESHOLD:

K+L MODE READING DESCRIPTION	SUBSTRATE	THRESHOLD (mg/cm ²)
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 from the EPA/HUD evaluation using archived building components. Testing was conducted in August 2004 on 133 testing combinations. The instruments that were used to perform the testing had new sources; one instrument's was installed in November 2003 with 40 mCi initial strength, and the other's was installed June 2004 with 40 mCi initial strength.

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.

SUBSTRATE CORRECTION VALUE COMPUTATION:

Substrate correction is not needed for brick, concrete, drywall, metal, plaster or wood when using Lead-in-Paint K+L variable reading time mode, the normal operating mode for these instruments. If substrate correction is desired, refer to Chapter 7 of the HUD Guidelines for guidance on correcting XRF results for substrate bias.

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. Use the K+L variable time mode readings.

Conduct XRF retesting 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 housing a result is defined as the average of three readings. In multifamily housing, a result is 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 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 results.

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

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:

For the Lead-in-Paint K+L variable reading time mode, the instrument continues to read until it is moved away from the testing surface, terminated by the user, or the instrument software indicates the reading is complete. The following table provides testing time information for this testing mode. The times have been adjusted for source decay, normalized to the initial source strengths as noted above. Source strength and type of substrate will affect actual testing times. At the time of testing, the instruments had source strengths of 26.6 and 36.6 mCi.

Testing Times Using K+L Reading Mode (Seconds)						
Substrate	All Data			Median for laboratory-measured lead levels (mg/cm ²)		
	25 th Percentile	Median	75 th Percentile	Pb < 0.25	0.25 ≤ Pb < 1.0	1.0 ≤ Pb
Wood Drywall	4	11	19	11	15	11
Metal	4	12	18	9	12	14
Brick Concrete Plaster	8	16	22	15	18	16

CLASSIFICATION RESULTS:

XRF results are classified as positive if they are greater than or equal to the threshold, and negative if they are less than the threshold.

DOCUMENTATION:

A document titled *Methodology for XRF Performance Characteristic Sheets* 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. For a copy of this document call the National Lead Information Center Clearinghouse at 1-800-424-LEAD.

This XRF Performance Characteristic Sheet was developed by the Midwest Research Institute (MRI) and QuanTech, Inc., under a contract between MRI and the XRF manufacturer. HUD has determined that the information provided here is acceptable when used as guidance in conjunction with Chapter 7, Lead-Based Paint Inspection, of HUD's *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing*.

EXHIBIT E



Asbestos and Lead Abatement, Mold Cleaning and Remediation, Hazardous Waste Disposal, Demolitions, Concrete and Metal Recycling, Mold Remediation, Industrial Painting and Sand Blasting

September 19, 2016

Antonio Rios Feliciano, P.E.
Caribe General Constructors

**Ref.: Removal and Disposal of Lead Contaminated Material at Sabana Village Apartments
Rio Piedras, PR**

Attn. Eng. Rios:

Sunset Contractors & Recycling Inc. submit our scope of work :

1. EQB Lead permits & EPA notification
2. Insurances
3. Certified & qualified supervisor and personnel by the EQB & EPA certification
By AHERA
4. Mobilization of equipment & materials
5. Air monitoring before, during and after the abatement procedures.
5. Preparation of work area
6. Removal of the Lead Contaminated Material
7. Work area clean up
8. Disposal of Lead Contaminated Material (Non-Hazardous)
10. Permit closing
11. Final report

If you have any question based on our proposal, please feel free to call me.

Cordially,

Basilio Ramos

*P.O. Box 1560 Guayama, PR 00785
Tel. 787-864-8855 Fax 787-864-8844*

A. PROJECT INFORMATION

Address of Property: Sabana Village Apartments

City: San Juan State: PR Zip: 00926

Plan Prepared by: Owner Planner Project Designer

If Planner Project Designer

Name: Marcos Ortiz Certificate Number: 6647-0216-PD-001

Telephone: (787) 864-8855 Address: Calle Alegia Urb Las Virtudes

City: San Juan State: PR Zip Code: 00924

Identify Inspection Report Used to Develop Abatement Plan

Date(s) of Inspection: August 30, 2016

If Consultant Contractor

Name of Consultant Contractor: _____

License Number: _____ Telephone Number: () _____

Name of Inspector: _____ Certificate Number: _____

B. OWNER INFORMATION

Name of Owner(s): Sabana Village Apartments, LLC

Authorized Representative: Mr. Ramfis J. Pérez Rivera

Address: 567 Barbosa Avenue

City: San Juan State: PR Zip Code: 00923

Mobile: (787) 640-5563 Work Telephone: (787) 294-1531

C. BUILDING ABATEMENT INFORMATION

Interior

Total Abatement Units: None

Location of Abatement: None

Will Residents Be Relocated? YES NO

Total Families Relocated due to Abatement: Tenants will not be relocated due to the abatement, as the units are free of lead. However, tenants will be relocated as part of the project rehabilitation.

Exterior

Please list areas to be abated.

45 ft² Parking Pavement Asphalt

D. ABATEMENT CONTRACTOR INFORMATION

Who will conduct abatement? Owner Abatement Contractor

If Abatement Contractor Will Conduct Abatement

Has contractor been selected? YES NO

If yes, provide the following:

Contractor Name: Sunset Contractors & Recycling, Inc

Contractor License Number: N/A Contact Person: Basilio Ramos

Address: PR # 3 Km 142.3 City: Guayama

State: PR Zip Code: 00785 Telephone Number: (787) 864-8855

Provide abatement contractor company profile.

E. REPAIRS PRIOR TO ABATEMENT

Are there any components or mechanical systems that need to be repaired prior to abatement:

YES NO

I YES, please indicate: _____

Any other conditions that require repair so as not to impede abatement:

YES NO

I YES, please indicate: _____

No prior repairs required.

F. ABATEMENT TECHNIQUE(S) TO BE USED

Identify which abatement technique(s) will be used.

Paint Removal means the stripping of lead paint from the surfaces of components. The following are some of the paint removal processes that can be used; chemical stripping, mechanical stripping, and wet scraping/wet sanding.

X-ray fluorescence analyzer testing of the surface after the paint has been removed is required to ensure toxic levels of lead no longer remain on the surface(s).

Replacement means the removal of components such as windows, doors, and trim that have lead painted surfaces and the installation of new components that are free of lead containing paint. Replacement may be feasible for many exterior and interior architectural components.

Encapsulation refers to processes that make lead paint inaccessible, by covering or sealing lead painted surfaces. If the lead paint is peeling or deteriorating, then some wet scraping and/or wet sanding is necessary prior to encapsulation (see wet scraping/wet sanding in the description of paint removal).

Any area that is to be abated will be properly contained with materials such as 6 mil polyethylene sheeting to prevent further contamination of the dwelling or environment and to facilitate post-abatement clean up.

G. DATES OF ABATEMENT PROJECT

Estimated Starting Date of Abatement Project: April 2017

Estimated Completion Date of Abatement Project: April 2017

H. NOTIFICATION PROCEDURE

Written notice will be given to the resident(s) 5 working days prior to the abatement start date. The notice shall:

- Inform the residents of their rights and responsibilities per the statutes and regulations.
- Inform residents which surfaces or soil areas are to be abated.

Additionally, warning signs will be posted at all entrances to and exits from the abatement area, prior to abatement.

I. CONTAINMENT OF WORK AREA (INTERIOR & EXTERIOR)

Cover and seal all non-work surfaces with 6 mil polyethylene as follows:

- a.) non-movable objects.
- b.) air system(s) heating, ventilation, air conditioning (HVAC).
- c.) entrances to abatement areas.
- d.) floors.
- e.) exterior grounds and surfaces (use 6-mil polyethylene sheeting to prevent release of lead into the environment).

The contractor and/or owner is responsible for using the best available engineering controls to reduce the potential for emissions to the exterior of an abatement area. Engineering controls may include but are not limited to, proper containment and control of the abatement area(s), provision of negative

pressure within containment area(s), use of wet scraping/wet sanding methods and use of vacuum HEPA attached power tools.

Describe proposed engineering controls: Scarifier equipped with Vacuum HEPA Filter

J. CLEANING AFTER LEAD-BASED PAINT ABATEMENT (PRIOR TO CLEARANCE TESTING)

- Procedure: 1. Wet clean the containment area.
 2. Carefully remove the polyethylene covering.
 3. HEPA vacuum area and wash with TSP detergent or other effective non-TSP cleaner.
 4. After 24 hours from the time when active abatement has ceased: HEPA vacuum, wash with TSP or other effective non-TSP cleaner and HEPA vacuum again.

K. WASTE DISPOSAL (HAZARDOUS)

Disposal Site: Philip Reclamation Service Houston LLC
Address: 4050 Homestead Road City: Houston
State: TX Zip Code: 77028-5810 Telephone Number: (713) 397-3951
Type of waste; Liquid: Solid: Projected Amount of Waste: 10

L. WORKER PROTECTION

Workers must use proper personal protective equipment per the OSHA Lead in Construction Standard (29CFR 1926.62) and state regulation. Full body covering (suits) with hood and shoe covering attached should be used to prevent lead dust contamination. Disposable coveralls that are used one time provide effective protection. Indicate the level of protection that is to be provided:

Body Covering:	<input checked="" type="checkbox"/>	Disposable:	<input checked="" type="checkbox"/>
Head Covering:	<input checked="" type="checkbox"/>	Disposable:	<input checked="" type="checkbox"/>
Hand Covering:	<input checked="" type="checkbox"/>	Disposable:	<input checked="" type="checkbox"/>
Shoe Covering:	<input checked="" type="checkbox"/>	Disposable:	<input checked="" type="checkbox"/>
Respirator w/HEPA Filter:	<input checked="" type="checkbox"/>	Type of Respirator:	<u>Half Face</u>

Note: Neither smoking, eating or drinking nor the application of cosmetics or lip balm, is permitted within the work area. Use of personal clothing and foot wear is not permitted during abatement activities.

Indicate available washing facilities: Hand washing: Showers:

M. CLEARANCE TESTING

Prior to re-occupancy, a visual inspection of abatement areas is required and sampling shall be collected and analyzed wells in each area where abatement has occurred. This inspection and sampling will be performed by a certified lead inspector, certified inspector risk assessor or an authorized code enforcement official.

N. SOIL ABATEMENT

Is Soil Abatement required? NO

Provide diagram of exposed soil areas to be abated. N/A

Check abatement technique(s) to be used. N/A

- Plant grass or shrubbery to reduce exposure to bare soil.
- Permanent barrier: asphalt or cement.
- Cover three to six inches with gravel or bark mulch.
- Restrict access: (fencing; specify type & height _____)
- Restrict access: (specify barrier _____)
- Excavate, remove and replace contaminated soil. An excavation of between three and eight inches is a generally acceptable practice. (Specify depth of excavation _____)
- Relocate play equipment.
- Excavate, remove and replace contaminated soil. An excavation of between three and eight inches is a generally accepted practice (specify depth of excavation _____)
- Permanent barrier: asphalt or cement projects.

A Comprehensive Abatement Plan will follow 10 of days before abatement start date.

DATE: September 26, 2016

BY: Basilio Ramos/Sunset Contractors & Recycling, Inc.

Sign: _____

ITS: President





Sunset Contractors & Recycling, Inc.

Offers a cost effective alternative to companies and government entities in the development and implementation of environmental and demolition of projects in and outside Puerto Rico.

What we do:

- Asbestos Abatement & Disposal
- Lead-Base Paint Abatement & Disposal
- Mold Remediation
- Concrete & Metal Demolition
- Dismantling of Structures
- Removal & Disposal of Contaminated Soil
- Concrete & Metal Recycling
- Transportation and Waste Disposal
- Hazardous Waste Recovery
- Sandblasting
- Scaffold Erection & Dismantle
- Industrial Painting

Contacts:

Basillo Ramos, President (787)-613-4350

bramos@sunsetcontractors.com

Hector Ramos, Vice- President (787) 613-5505

gulsoramos@hotmail.com

Tel. (787) 864-8855 Fax. (787) 864-8844/292-5227

P.O. Box 479, Arroyo, P.R. 00714

1587-AF



Statement of Bonding



Edificio MAPFRE
Urb. Tres Monjitas Industrial
297 Ave. Carlos Chardón, San Juan PR 00918-1410
PO Box 70333, San Juan PR 00936-8333



August 3, 2015

To Whom It May Concern:

RE: SUNSET CONTRACTORS & RECYCLING, INC.

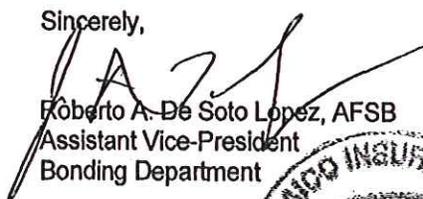
Please be informed that MAPFRE PRAICO Insurance Company has been giving the surety support to the subject in caption since 2013 with excellent experience.

In the past, we have issued bonding lines up to \$8,000,000 with an aggregate bond limit of \$10,000,000. We are willing to consider similar or larger credit limits in the future subject that the contractor meets our established underwriting requirements at time bonds need to be executed.



We highly recommend Sunset Contractors & Recycling, Inc. because of their integrity and responsibility in their business affairs.

Sincerely,


Roberto A. De Soto Lopez, AFSB
Assistant Vice-President
Bonding Department



MAPFRE PRAICO INSURANCE COMPANY
MAPFRE PREFERRED RISK INSURANCE COMPANY

T 787.250.6500 F 787.250.5370
www.mapfrepr.com

MAPFRE PAN AMERICAN INSURANCE COMPANY
MAPFRE LIFE INSURANCE COMPANY



Credit Line



BANCO POPULAR

BANCO POPULAR DE PUERTO RICO
PO Box 502708
San Juan, Puerto Rico 00936-2708
Teléfonos (787) 765-9800, 751-9200

August 4, 2015

SUNSET CONTRACTORS & RECYCLING INC.
PO BOX 479
ARROYO PR 00714-0479

Dear Client:

Upon your request, we include information about your Deposit Account with Banco Popular 211-XXX-327.

As of August 4, 2015 your balance is:

	BOOK BALANCE	AVAILABLE BALANCE
RESERVE	\$50,000.00	\$50,000.00

In addition, **SUNSET CONTRACTORS & RECYCLING INC** maintains a line of credit 286XXX-1999 of \$250,000.00.

At Banco Popular, our priority is to attend all your needs. If you need any help or additional information by this means or other means, please contact us by phone (787)839-2285.

Cordially,

Angel Melendez de Jesus
Branch Administrator
BPPR Arroyo Branch



Statement of Qualification



STATEMENT OF QUALIFICATION

Sunset Contractors & Recycling, Inc. is a competitive company in the island. Puerto Rico Corporation, SCR was established in 2005, to provide highly complex and specialized services associated with hazardous environments such as Asbestos & Lead Abatement and Disposal, Environmental Surveys, Demolitions, Concrete and Metal Recycling, Hazardous Waste Recovery – Transportation and Disposal, Mold Remediation, Sand Blasting and Industrial Painting. SCR provides services to the private and public industry, municipal, government and residential clients throughout the island of Puerto Rico and the Virgin Islands with an unprecedented record of growth sustained from quality performance

SCR strives to provide its clients with state-of-the-art services. Our project personnel are trained to fully identify and understand current industry standard and requirements and to provide services that achieve these requirements. To continually provide this high level of expertise, we believe in investing a great deal of time and money in each employee to assure that they are top professionals in the environmental field. We also have done abatement of asbestos & lead at historical building such as “La Casa del Libro” in old San Juan, building “Felipe Laner at UPR Rio Piedras, USPS Building at Ponce PR and Old State Penitentiary Oso Blanco in San Juan

Mr. Basilio Ramos and his partner Mr. Hector L. Ramos has managed most of the largest Asbestos & Lead Abatement projects on the island and stands ready to meet any and all of your environmental needs. We welcome the opportunity to meet with you to explore the many ways in which we can be of service to you and your organization.

We also have over 25 years in experience in the industry of Lead & Asbestos Abatement and Demolition projects, over these years we had never had a unsatisfied client for our work and also with project manager with over 20 years of experience and over 30 qualified personnel in asbestos & Lead.

INSURANCES



DETAILED INSURANCE

COMMERCIAL GENERAL LIABILITY INSURANCE:

AMERICAN INTERNATIONAL INSURANCE

GENERAL AGGREGATE	\$ 1,000,000.00
PRODUCTS-COMPLETED OPERATIONS AGGREGATE	\$ 1,000,000.00
PERSONAL INJURY & ADVERTISING INJURY	\$ 1,000,000.00
EACH OCCURRENCE	\$ 1,000,000.00
EMPLOYERS LIABILITY STOP GAP	\$ 1,000,000.00
FIRE DAMAGE (ANY ONE FIRE)	\$ 50,000.00
MEDICAL EXPENSE (ANY ONE PERSON)	\$ 5,000.00
UMBRELLA COVERAGE	\$ 5,000,000.00

CONTRACTORS POLLUTION LIABILITY:

EACH LOSS	\$ 1,000,000.00
AGGREGATE	\$ 1,000,000.00

AUTOMOBILE LIABILITY:

AMERICAN INTERNATIONAL INSURANCE

BODILY INJURY (PER PERSON)	\$ 250,000.00
BODILY INJURY (PER ACCIDENT)	\$ 500,000.00
PROPERTY DAMAGE (PER ACCIDENT)	\$ 250,000.00

ABOVE INSURANCE INCLUDES:

- SCHEDULED AUTOS
- HIRED AUTOS
- NON-OWNED AUTOS



RESUME



Basilio Ramos Santiago
Guayama, Puerto Rico
Telephone (787) 613-4350

Experience

2006 Nov-Present, President, Sunset Contractors & Recycling Inc,
In Charge of the Environmental Department and of all projects

2002- 2006 Project Manager, SAQ Environmental Engineers, Inc.

In charge of managing the Environmental Department and all mayor projects thru the island

1998-2002 Division Manager, J.R. Insulation Sales & Services

In charge of division office operation, proposals, visiting clients and supervising project managers, superintendent, supervisor (11) and (200) asbestos & lead technicians.

1997-1998 Project Superintendent, J.R. Insulation Sales & Services

In charge of coordinating many jobs thru the island, proposal & Visiting clients

1998-1996 Project Coordinator, J.R. Insulation Sales & Services

In charge of coordinating contracts projects at Puerto Rico Sun Oil of Asbestos & Lead Abatement, Insulation, Refractory, Scaffold, Industrial Cleaning and Office Management.

1994-1996 Supervisor, Environmental Contracting Corp.

In charge of coordinate and perform Asbestos & Lead Abatement Projects.

Education

1992-1994 Associate Degree in Industrial Mechanic Engineering Institute of Technology in Guayama, P.R

1990-1 992 Two years on Business Administration
Interamericana University in Guayama, P.R

Courses

Fernando Rodríguez & Associates

1997-Lead Supervisor & Contractors

University of Florida

Center for Training Research and Education for Environmental Occupation

1994- Lead Supervisor and Contractors

Puerto Rico Occupational Safety and Health Academy

1994 - Supervisor Safety Seminar

Industrial Training Corp.

1995 — Worker Asbestos Abatement Training Program



Héctor L Ramos Santiago
San Juan, Puerto Rico
Telephone (787) 613-5505

Qualifications

As Vice President Mr. Ramos has managed most of the biggest Asbestos and Lead projects in the Island. Most of these projects have taken place at local Pharmaceuticals, Private & Public Sectors and Steam Plants. In his 21 years of experience in this business, Mr. Ramos is well dedicated to all his works as small

or big projects. He also has many certifications like an Asbestos Project Designer and Lead & Asbestos Supervisor and other that are required to do relation tasks.

Education

1984-1987 Associate Degree in Computer Programming-Institute of Technology in Guayama, P.R.

Experience

2006 Nov-Present Vice President, Sunset Contractors & Recycling Inc.
In charge of all Administrative Operations, Bids and Coordination of Projects

2002-2006 Project Manager, SAQ Environmental Engineer Inc.
In charge of managing the Environmental Department and estimating projects and quotations.

2001-2002 Project Manager, Indutech Environmental Services
Manage the Asbestos & Lead Department; in charge of all related work as estimating and quotations.

1998-2001 Project Manager, General Products, Inc.
Manage the Asbestos & Lead Department; supervising projects thru the island, preparation of work plans, submitting permits, estimating projects and quotations.

1989-1998 Project Superintendent, JR Insulation Sales & Services
Worker, foreman, supervisor and manager of the north part of the island. Also in charge of estimating project and quotation. Over 100 personnel & 7 supervisors under my directions.

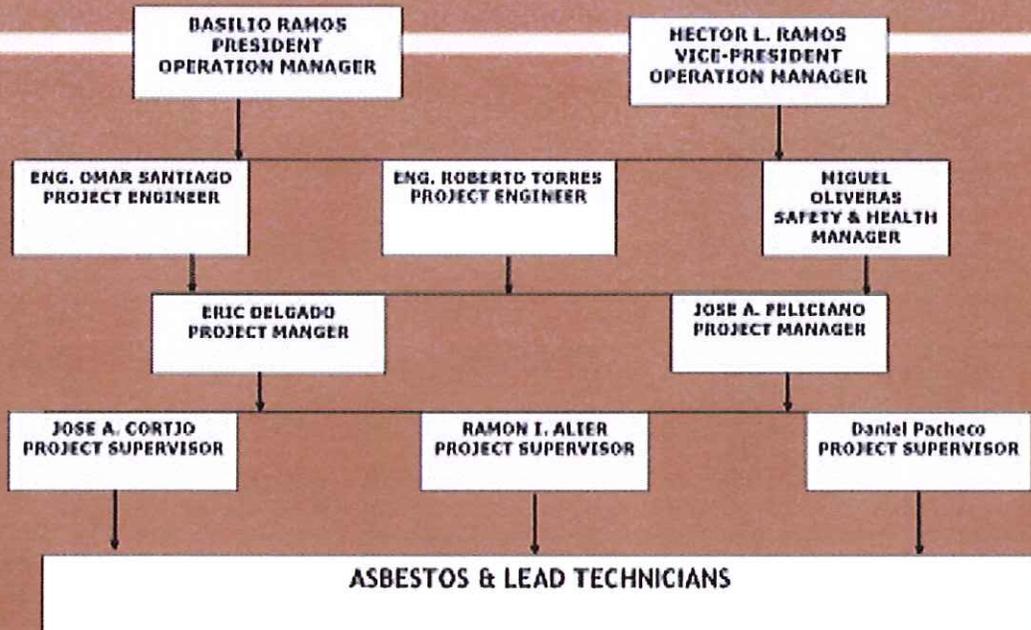
Bilingual, good skills in written and oral communication in English and Spanish



OUR TEAM



SUNSET CONTRACTORS & RECYCLING, INC.
VA HOSPITAL, PROJECT ORGANIZATION CHART





OUR EQUIPMENT





10
YEARS ANNIVERSARY











Available Equipment

Item No.	Quantity	Description Size, Capacity, Etc	Condition	Present Location	Years of Use
1	45	Negative Pres. Mach.	Good	Warehouse	4
2	14	Portable Showers	Good	Warehouse	4
3	14	Water Filtration Pumps & Wet Sandblasting Equipment	Good	Warehouse	4
4	25	Floor Tile Scrapers	Good	Warehouse	4
5	5	Manometer	Good	Warehouse	3
6	25	Vacuum Cleaner	Good	Warehouse	4
7	6	Airless Sprayer	Good	Warehouse	3
8	8	Excavators	Good	Warehouse	3
9	10	Pick up Trucks	Good	Warehouse	3
10	2	Club Wagon	Good	Warehouse	3
11	35	PAPR	Good	Warehouse	3
12	2	Concrete Recycling Machine	Good	Warehouse	3
13	3	Roll Off Trucks	Good	Warehouse	4
14	20	20 yards Containers	Good	Warehouse	3
15	4	Mack 350 Trailer	Good	Warehouse	7
16	1	Skytrack	Good	Warehouse	6



LIST OF LARGEST PROJECTS



PROJECT DESCRIPTION

AMOUNT CONTRACT

* DEMOLITION AT OLD OSO BLANCO PENITENTIARY PUERTO RICO SCIENCE TECHNOLOGY & RESEARCH RIO PIEDRAS, PUERTO RICO	\$ 4,500,000.00
* ASBESTOS & LEAD ABATEMENT AND DISPOSAL WORLD TRADE PLAZA BUILDING HATO REY, PURTO RICO	\$ 1,300,000.00
* ASBESTOS & LEAD ABATEMENT AND DISPOSAL OLD OSO BLANCO PENITENTIARY PUERTO RICO SCIENCE TECHNOLOGY & RESEARCH RIO PIEDRAS, PUERTO RICO	\$ 1,800,000.00
* DEMOLITION, ASBESTOS & LEAD ABATEMENT DORADO BEACH HOTEL DORADO, PUERTO RICO	\$ 1,750,000.00
* ASBESTOS & LEAD ABATEMENT AND DISPOSAL FEDERAL AVIATION AUTHORITY CAROLINA, PR	\$ 1,425,000.00
* ASBESTOS & LEAD ABATEMENT AND DISPOSAL AGUADILLA HOUSING COST GUARD SCHNEIDER ELECTRIC BUILDING AGUAILLA, PUERTO RICO	\$ 1,450,000.00
* ASBESTOS & LEAD ABATEMENT AND DISPOSAL MUNICIPALITY OF CAROLINA	\$ 1,000,000.00
ASBESTOS & LEAD ABATEMENT AND DISPOSAL UNIVERSITY OF PUERTO RICO RIO PIEDRAS, PUERTO RICO	\$ 850,000.00
* MOLD CLEANING & REMEDIATION CAYO LARGO RESORT FAJARDO, PUERTO RICO	\$ 700,000.00
* DEMOLITION OF PLANT EQUIPMENT BALL CAN GUAYAMA PR GUAYAMA, PUERTO RICO	\$ 440,000.00
* DEMOLITION, ASBESTOS & LEAD ABATEMENT LAS CASITAS HOUSING ISLAND WIDE, PUERTO RICO	\$ 1,500,000.00

ASBESTOS & LEAD ABATEMENT OLD "OSO BLANCO PENITENTIARY"



DEMOLITION AND CONCRETE AND METAL RECYCLING OLD "OSO BLANCO PENITENTIARY"

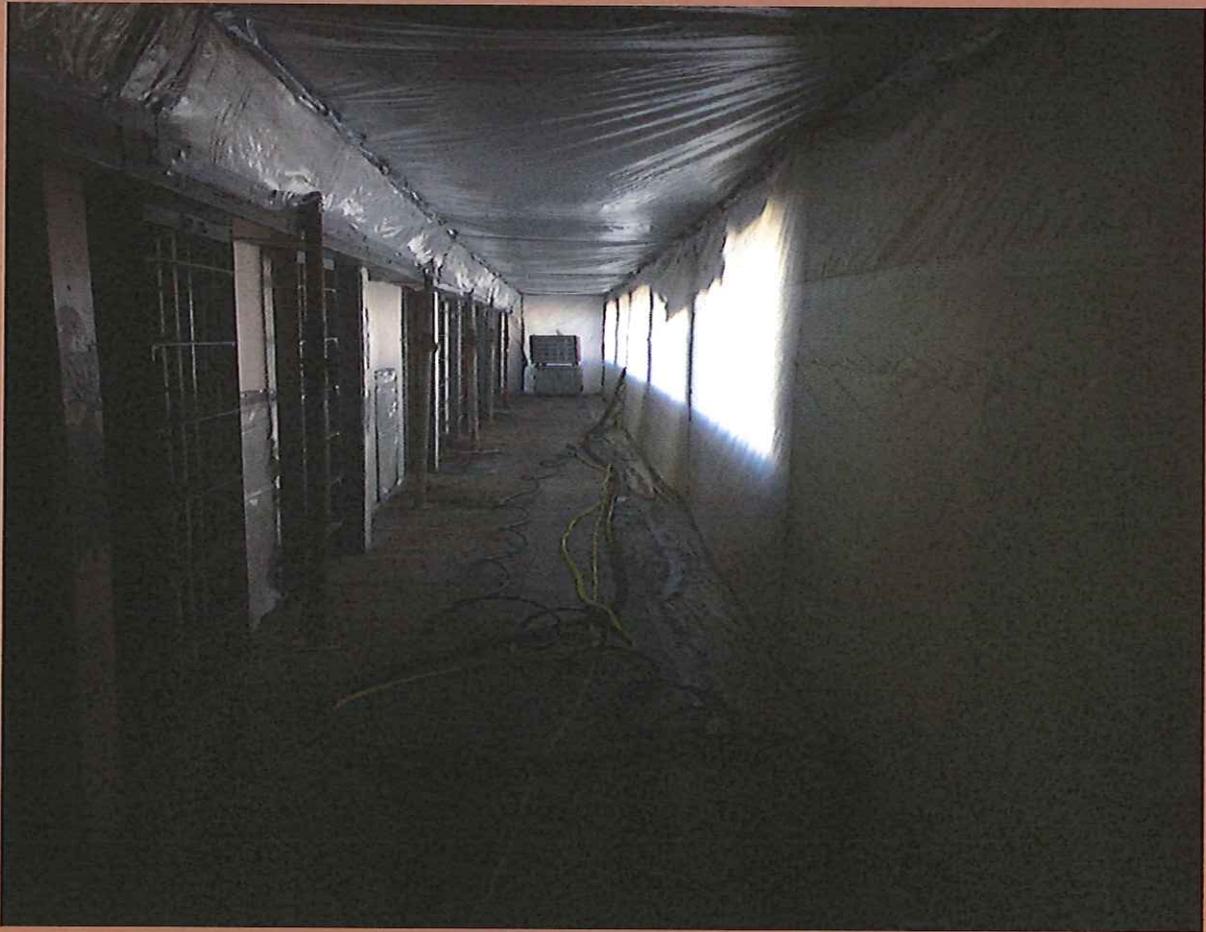


DEMOLICIÓN OSO BLANCO
San Juan, P.R.
7 de Mayo de 2014



DEMOLICIÓN OSO BLANCO
San Juan, P.R.
24 de Abril de 2015







**ASBESTOS & LEAD ABATEMENT
AND SELECTIVE DEMOLITION
AT 11 FLOORS
WORLD TRADE PLAZA, SAN
JUAN, PR**





ASBESTOS & LEAD ABATEMENT AND DISPOSAL DEMOLITION AND CONCRETE AND METAL RECYCLING AT OLD "SAN CARLOS" HOSPITAL SAN JUAN, PR



ASBESTOS AND LEAD ABATEMENT AND DISPOSAL AT "CENTRO CULTURAL DIGNIA SAEZ" HISTORICAL BUILDING





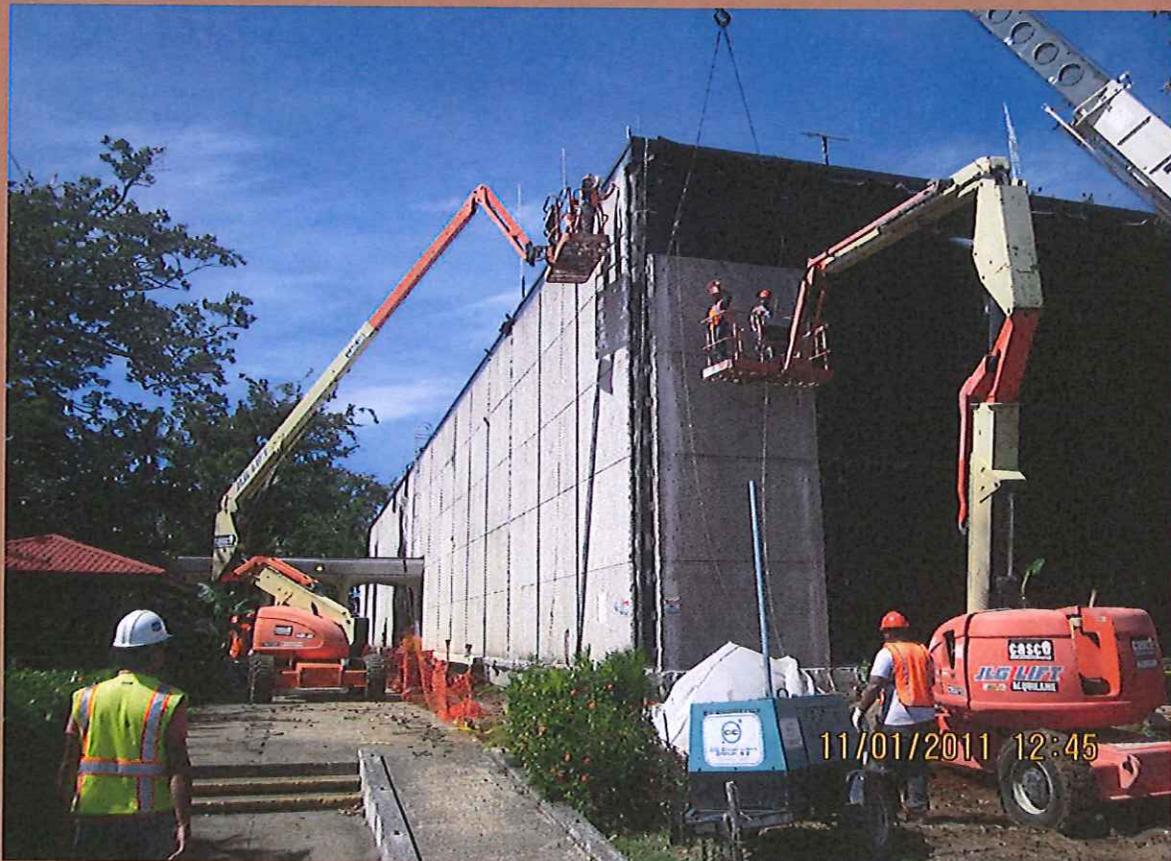


Marcelo Trujillo Panisse, Alcalde

Remoción Asbesto
Plomo Centro Cultural
Antonia Sáez



DISPOSAL BUILDING DISMANTLING AT FEDERAL AVIATION ADMINISTRATION CAROLINA, PUERTO RICO







REMOVAL, DEMOLITION AND DISPOSAL BUILDING 51 AND 153 – CAYEY



EUGENIO MARIA DE HOSTOS – AIRPORT – MAYAGUEZ, PR ASBESTOS, LEAD REMOVAL & DISPOSAL DEMOLITION, CONCRETE AND METAL RECYCLING





ON U

CAROLINA HOUSING DEMOLITION





ASBESTOS ABATEMENT

UNIVERSITY OF PUERTO RICO

