



PARS
Environmental
Inc.

PRE-REHABILITATION: LEAD-BASED PAINT RISK ASSESSMENT

SITE LOCATION:

**EMERGENCY OPERATIONS CENTER AND
COAST GUARD STATION
420 PELHAM AVENUE
BEACH HAVEN, NEW JERSEY 08008**

PREPARED FOR:

**MS. KRISTIN MAINES
GANNETT FLEMING
207 SENATE AVENUE
CAMP HILL, PENNSYLVANIA 17011**

PREPARED BY:

**PARS ENVIRONMENTAL, INC.
500 HORIZON DRIVE, SUITE 540
ROBBINSVILLE, NEW JERSEY 08691
609-890-7277
609-890-9116 (FAX)**

PARS PROJECT NO. 710-18

DECEMBER 2014



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EXECUTIVE SUMMARY

On December 1, 2014, PARS Environmental, Inc. (PARS) conducted a Pre-Rehabilitation Lead-Based Paint (LBP) Risk Assessment (hereinafter the “Assessment”) Survey of the Emergency Operations Center and Coast Guard Station, the municipal property located at 420 Pelham Avenue, Beach Haven, New Jersey 08008 (the Site). The Site had sustained damage during the October 2012 Hurricane Sandy. PARS understands that the Borough of Beach Haven, the Site owners, have applied for a NJ Neighborhood and Community Revitalization Program (NCR) Development and Public Improvements Projects – Economic Development Authority (EDA) – State Community Development Block Grant (CDBG) to rehabilitate the municipal building. The EDA is requiring the LBP Risk Assessment prior to rehabilitation of the existing building. Based on documents provided by Gannett Fleming on November 21, 2014, we understand that the planned improvements to the building include removal and replacement of siding, windows, some doors, exterior wooden/concrete staircases, and platforms on the north and west sides of the building. A new elevator is also planned to be installed. PARS was authorized to perform this work by Gannett Fleming on June 10, 2014. Photographs taken as part of the project are included in **Appendix E**.

The purpose of the Assessment was to identify the potential presence of lead hazards on/in painted surfaces inside and outside the building, including deteriorated LBP and LBP that may be disturbed during planned rehabilitation.

The Site appears to be improved during two separate construction periods. The older section of the Site is currently utilized for Municipal Court activities. This section is elevated by a concrete column support system with a partial concrete deck system and concrete stairs. Interior building construction consists of ceramic tile, carpeted flooring, and plaster walls and ceilings. The newer section of the Site is currently utilized for Borough activities, and is elevated by a wood column support system and wood stairs. Interior building construction consists of ceramic tile, carpeted and vinyl tile flooring, and drywall walls and ceilings. The ceiling in the court room, gym, and hallways is comprised of a 2-foot by 2-foot and 2-foot by 4-foot suspended ceiling tile system. The roof for both sections is a flat roof. The results of the Assessment indicate that LBP surface coatings were identified and, LBP hazards were present on the Property at the time of the Assessment.

Identified LBP Surfaces

- **Four (4) Door Lintels at the Municipal Court section (1 to 2 Square Feet {SF} Total);**
- **Pipe insulation in Generator Room (20 SF) and throughout; and**
- **Twenty-Two Columns, at the Municipal Court section (450 SF).**

Existing LBP Hazards and Potential Lead Hazards

The following substrates coated with LBP are deteriorated (poor condition) and currently present existing LBP hazards:

- **Two (2) Door Lintels at Exit 1 and Exit 2.**

Identified Intact LBP Surfaces-No Current Hazard

The following area is coated with LBP that is intact and does not currently present lead hazards.



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- **Two (2) Door Lintels at Exit 4 and Generator Room;**
- **Pipe insulation in Generator Room (20 SF) and throughout; and**
- **Twenty-Two Columns, at the Municipal Court section (450 SF).**

Lead Dust Hazards

A lead dust hazard was identified in the following locations:

- **W106 Room, Floor (approximately 280 SF)**

This room is a high traffic area with a carpet and used by the public attending court activities as a meeting area and adjoining bathroom facilities.

Soil Contamination

A lead hazard was identified in soil at the following building location:

- **There is no bare or exposed soil at the Site. The ground surrounding the Municipal Court section consisted of beach stone and asphalt, while the area surrounding the Clerk Section is covered with intact vegetation. Based on this information, no samples were collected as part of this Assessment.**

Non-LBP Renovation Components

The planned renovation includes disturbance of the following components that do not contain LBP:

- Interior walls in the rooms that were tested;
- Interior doors and door components that were tested (except door lintels on the court section of the building); and
- Interior windows and window components that were tested.

Refer to **Table 1** for a list of components that do not contain LBP.

Recommendations

All identified LBP and Lead Hazards should always be properly addressed by professionally trained, and/or licensed lead workers. Lead-safe work practices and worker/occupant protection practices complying with current HUD, US Environmental Protection Agency (USEPA), the New Jersey Department of Community Affairs (NJCA), and Occupational Safety and Health Administration (OSHA) standards will be necessary to safely complete all work involving the disturbance of LBP coated surfaces and components.

Based on the findings of the Assessment, LBP as defined by HUD, USEPA, NJCA, and OSHA was identified at the Site. The OSHA Lead in Construction Standard is applicable to all occupational exposure to lead in all construction work in which lead **in any amount** is present. PARS recommends that the general contractor and any sub-trades be advised of the requirements for compliance with the OSHA Lead in Construction Standard (29 CFR 1926.62). PARS has summarized some of the basic requirements outlined within the Standard. A summary of the OSHA Lead in Construction Standard has been attached hereto as **Appendix G**.



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Any proposed LBP impact operations must be completed in accordance with applicable federal, state, and /or local regulations including but not limited to:

- OSHA 29 CFR Part 1926.62 Lead Exposure in Construction;
- Housing and Urban Development Guidelines Chapter 7 (Revised 1997);
- Lead Hazard Evaluation and Abatement Code (N.J.A.C. 5:17); and
- EPA RCRA Hazardous and Solid Waste Amendments.

1.0 INTRODUCTION, PURPOSE, AND SCOPE OF WORK

On December 1, 2014, PARS Environmental, Inc. (PARS) conducted a Pre-Rehabilitation Lead-Based Paint (LBP) Risk Assessment (hereinafter the "Assessment") Survey of the Emergency Operations Center and Coast Guard Station, the municipal property located at 420 Pelham Avenue, Beach Haven, New Jersey 08008 (the Site). The Site had sustained damage during the October 2012 Hurricane Sandy. PARS understands that the Borough of Beach Haven, the Site owners, have applied for a NJ Neighborhood and Community Revitalization Program (NCR) Development and Public Improvements Projects – Economic Development Authority (EDA) – State Community Development Block Grant (CDBG) to rehabilitate the municipal building. The EDA is requiring the LBP Risk Assessment prior to rehabilitation of the existing building. PARS was authorized to perform this work by Gannett Fleming on June 10, 2014.

The purpose of the Assessment was to identify the potential presence of lead hazards on/ in surfaces inside and outside the structure, including deteriorated LBP and LBP that may be disturbed during planned re-habilitation. HUD, the United States Environmental Protection Agency (USEPA), and the New Jersey Department of Community Affairs (NJCA) New Jersey Lead Hazard Evaluation and Abatement Code (N.J.A.C. 5:17) consider painted surfaces containing lead at a concentration of 1.0 milligram per square centimeter (mg/cm²) or greater to be LBP. LBP testing was conducted to assess whether LBP was present at levels exceeding the HUD, USEPA, and New Jersey Lead Hazard Evaluation and Abatement Code.

The Scope of Work included the following:

- Owner/occupant interview and a visual inspection of all painted and coated interior and exterior surfaces of the dwelling, and all common areas, and, if present, all outbuildings and fences;
- X-Ray Fluorescence (XRF) analyzer testing for lead content of all coatings on surfaces that may be disturbed during the renovation;
- Lead hazard identification of deteriorated paint, friction, impact and chewable surfaces;
- Interior dust sampling; and
- Soil sampling, if appropriate.



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2.0 APPLICABLE REGULATORY STANDARDS AND FIELD METHODOLOGIES

2.1 APPLICABLE REGULATORY STANDARDS

The inspection and Assessment were performed in accordance with the regulatory standards listed below, as appropriate:

1. HUD Community Development Block Grant (CDBG) Lead Safe Housing Rule;
2. The guidelines of the Steel Structures Painting Council referenced in N.J.A.C. 5:17-1.3; and
3. Rules adopted by the U.S. Environmental Protection Agency at 40 C.F.R. 745.

2.2 Owner/Interview Visual Inspection

The Assessment was performed on December 1, 2014, by Mrs. Christa Casciolini, a licensed New Jersey Department of Health (NJDOH) Lead Inspector/Risk Assessor (Permit #026992). PARS is certified by the NJDCA as a Lead Evaluation Contractor (Cert. #00416E). The Assessment commenced at 9:00 am and concluded at approximately 7:30 pm. A copy of Mrs. Casciolini's license is provided in **Appendix A**.

The property owner contact information is:

Owner: Borough of Beach Haven – Emergency Operations Center and Coast Guard Station, Property Owners
Address: 420 Pelham Avenue
Beach Haven, NJ 08008
Phone #: 609-492-0111

Based on an interview with the Site Representative, there has not been previous LBP testing/assessment at the Property.

2.3 XRF Testing and Lead Hazard Identification

Painted surfaces were evaluated according to the specifications described in the protocols for LBP inspection in the HUD Guidelines for the Evaluation and Control of Lead-Based Paint and requirements of the Lead Hazard Evaluation and Abatement Code using an X-Ray Fluorescence (XRF) analyzer. The XRF used for this evaluation was a Thermo-Scientific NITON, Model No. XLP 300, Serial No. 12027.

A rough sketch is made of the Property. Instrument calibrations are performed at least three times before the start of testing and performed at least every four hours, and at the end of each inspection. At least one test location per testing combination, four readings are obtained, one on each wall, (interior room equivalent or exterior). When upper and lower walls have a different painting history, four tests are required of each.



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The selection of the test locations is representative of the paint over the areas which are most likely to be coated with old paint or other lead-based coatings. Thus, locations, where the paint appears to be thickest are selected. Locations where paint has worn away or been scraped off are not selected. At each test location:

- All layers of paint are included; and
- the XRF probe faceplate is placed flat against the surface.

Areas over pipes, electrical surfaces, nails and other possible interferences are avoided, if possible, as these materials may contain lead and contribute to the XRF reading. When testing combinations are repeated within a room equivalent (e.g., window, or door system), one test is taken on one part of the component system (e.g., the casing from window B) and another test from another part of the system from a separate component (e.g., the sash from window C-2), the same strategy would apply to the door system. If a room has two or more doors (including closet or pantry doors), the casing or jamb of the door itself is tested. If each door may have a different painting history, then each door system is tested separately.

Calibration and actual readings were taken using the Standard Paint Mode. The instrument calibration was performed in accordance with the Performance Characteristic Sheet (PCS) for this instrument. The instrument PCS is in **Appendix B**. The instrument was calibrated using the paint film nearest 1.0 mg/cm² in the National Institute of Standard & Technology (NIST) Standard Reference Material. At least three calibration readings were taken before and after the testing to insure manufacturer standards were met.

The tested surfaces included:

- Walls/Ceilings (Plaster/Drywall/Concrete Board)
- Siding, Shingles, Paneling, and Stucco
- Doors and Door Components
- Windows and Window Components
- Floors and Baseboard
- Trim
- Stairs and Stair Components
- Pipes
- Foundation
- HVAC Box

A total of 204 measurements were taken from painted surfaces. The measurement number 98 was taken in error over some interference behind a bathroom toilet (i.e. over pipes, electrical surfaces, nails and other possible interferences) and should be disregarded. The measurement 104 is a resampling of that reading resulting in a negative LBP result. The XRF measurements were collected following the regulatory standards referenced in Section 2.1 of this report to evaluate the potential presence of LBP in the building.



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2.4 Interior Dust Wipe Sampling

Interior dust wipe sampling is conducted in areas where the LBP surfaces are observed to be in deteriorated condition. USEPA and HUD define “*deteriorated paint*” as “*any interior or exterior paint or other coating that is peeling, chipping, chalking or cracking, or any paint or coating located on an interior or exterior surface or fixture that is otherwise damaged or separated from the substrate*”. This definition is most typically associated with surface conditions only. Usage of this term in describing conditions other than those associated with surface coatings are not known to be defined by USEPA or HUD. Wipe samples are collected from locations as observed during the Assessment:

- 1) In or near areas testing positive for LBP (window troughs, window sills, etc.);
- 2) In or near friction or impact areas (window troughs/sills, floors at doorway entrances, etc.);
- 3) In high traffic /common areas (doorway entrances, laundry rooms, bedrooms, etc.); and,
- 4) In or near areas where deteriorated paint exists (wherever observed during the Assessment).

Wipe sampling was conducted in the public areas (i.e., halls, room W106, court, kitchen, conference room, clerk’s office, gym, EOC office 1, and exits) to assess the presence of potential lead-dust concentrations. USEPA considers lead in dust to be a hazard if lead concentrations, as determined by wipe sampling, are equal to or greater than 40 micrograms per square foot ($\mu\text{g}/\text{ft}^2$) on floors, 250 $\mu\text{g}/\text{ft}^2$ on window sills, and 400 $\mu\text{g}/\text{ft}^2$ on troughs and exterior surfaces.

Seventeen (17) wipe samples including one (1) Quality Control wipe sample were collected from the floors in the municipal court hall, room W106, exits (1 thru 6), court room, kitchen, clerk’s office, clerk’s hall, conference room, conference hall, gym, and EOC office #1. The samples were collected from areas most likely to be lead contaminated if lead-in-dust is present, in accordance with the requirements of ASTM Standard E-1728, *Standard Practice for Field Collection of Settled Dust Samples Using Wipe Sampling Methods for Lead Determination by Atomic Spectrometry Techniques*.

Samples were collected by wiping either a 12 inch x 12 inch surface area or other pre-measured surface with alcohol-free Ghost Wipes. The surface area was wiped side-to-side in ‘S’ like motions. The samples were placed in plastic tubes and submitted for laboratory analysis to EMSL Analytical Inc. (EMSL) which is an American Industrial Hygiene Association, Environmental Lead Laboratory Accreditation Program (AIHA-ELLAP #100194) certified laboratory.

2.5 Soil Sampling

Where necessary, soil samples are collected in accordance with the requirements of ASTM Standard E-1727, *Standard Practice for Field Collection of Soil Samples for Lead Determination by Atomic Spectrometry Techniques*. A minimum of two (2) soil samples are collected from the following areas:



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- Drip Line – soil closest to the exterior walls of the home; and
- Play Area – soil where children (if any) are known to be in contact with soil (i.e., near swing set, play equipment, etc.); or
- Bare Soil – soil that is exposed in the yard, but not necessarily a Play Area.

There is no bare or exposed soil at the Site. The ground surrounding the Municipal Court section consisted of beach stone and asphalt, while the area surrounding the Clerk Section is covered with intact vegetation. Based on this information, no samples were collected as part of this Assessment.

3.0 RESULTS

3.1 Owner/Interview Visual Inspection

The Site appears to be improved during two separate construction periods. The older section of the Site is currently utilized for Municipal Court activities. This section is elevated by a concrete column support system with a partial concrete deck system and concrete stairs. Interior building construction consists of ceramic tile, carpeted flooring, and plaster walls and ceilings. The newer section of the Site is currently utilized for Borough activities, and is elevated by a wood column support system and wood stairs. Interior building construction consists of ceramic tile, carpeted and vinyl tile flooring, and drywall walls and ceilings. The ceiling in the court room, gym, and hallways is comprised of a 2-foot by 2-foot and 2-foot by 4-foot suspended ceiling tile system. The roof for both sections is a flat roof. The results of the Assessment indicate that LBP surface coatings were identified and, LBP hazards were present on the Site at the time of the Assessment.

The following potential LBP painted/coated surfaces were identified:

- Walls/Ceilings (Plaster/Drywall/Concrete Board)
- Siding, Shingles, Paneling, and Stucco
- Doors and Door Components
- Windows and Window Components
- Floors and Baseboard
- Trim
- Stairs and Stair Components
- Pipes
- Foundation
- HVAC Box

3.2 XRF Testing and Lead Hazard Identification

XRF testing was conducted on painted components listed above. The XRF readings and their associated LBP levels are summarized in **Table 1**. XRF Direct Readings are provided in **Table 2**.

Identified LBP Surfaces

LBP in amounts equal to or exceeding the USEPA and/or HUD criteria of 1.0 mg/cm² was found on the following painted substrates:



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- **Four (4) Door Lintels at the Municipal Court section (1 to 2 Square Feet {SF} Total);**
- **Pipe insulation in Generator Room (20 SF) and throughout; and**
- **Twenty-Two Columns, at the Municipal Court section (450 SF).**

Existing LBP Hazards

The following substrates coated with LBP are deteriorated (poor condition) and currently present existing LBP hazards:

- **Two (2) Door Lintels at Exit 1 and Exit 2.**

Hazard control options and associated cost estimates for the areas or components identified with LBP or lead hazards are also discussed later in this report. In an effort to aid in the interpretation of the listed findings, a glossary of terms and a list of publications and resources addressing lead hazards and their health effects is provided in **Appendix C**.

Intact LBP Surfaces-No Current Hazard

The following area is coated with LBP that is intact and does not currently present lead hazards.

- **Two (2) Door Lintels at Exit 4 and Generator Room;**
- **Pipe insulation in Generator Room (20 SF) and throughout; and**
- **Twenty-Two Columns, at the Municipal Court section (450 SF).**

3.3 Interior Dust Wipe Sampling

One of the seventeen wipe samples exceeded the respective lead dust concentration of 40 $\mu\text{g}/\text{ft}^2$ on floors. The results of the lead dust wipe sampling are presented as **Table 3**. Laboratory analytical results are provided in **Appendix D**.

3.4 Soil Sampling

There is no bare or exposed soil at the Site. The ground surrounding the Municipal Court section consisted of beach stone and asphalt, while the area surrounding the Clerk Section is covered with intact vegetation. Based on this information, no samples were collected as part of this Assessment.

4.0 LEAD HAZARD CONTROL OPTIONS

Lead-safe work practices and worker/occupant protection practices complying with current USEPA, HUD, and Occupational Safety and Health Administration (OSHA) standards will be necessary to safely complete all work involving the disturbance of LBP coated surfaces and components. In addition, any work considered lead hazard control will enlist the use of interim control (temporary) methods and/or abatement (permanent) methods. It should be noted that all lead hazard control activities have the potential of creating additional hazards, or even creating hazards that were not present before. All persons and/or firms performing lead hazard control activities must have received proper training in Lead-Safe Work Practices and/or Lead Abatement. Details for the listed lead hazard control options and issues surrounding



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occupant/worker protection practices can be found in the publication titled: *Guidelines for the Evaluation and Control of LBP Hazards in Housing (Second Edition, July 2012)* (HUD Guidelines), published by HUD, as well as in the OSHA regulations found in 29 CFR, Part 1926.62, known as the OSHA Lead Exposure in Construction Industry Standard.

The associated cost estimates, unless otherwise noted, include the labor and materials to accomplish the stated activity and most additional funds typically found to be necessary to complete worker protection, site containment, and cleanup procedures. These are approximate estimates only and due to a variety of potential factors, may not accurately reflect all local cost factors. A precise estimate must be obtained from a NJ certified LBP abatement contractor or a contractor trained in lead safe work practices. Properly trained and/or licensed persons, as well as properly licensed firms (as mandated) should accomplish all abatement/interim control activities conducted at this residence.

Interim controls, as defined by HUD, means a set of measures designed to temporarily reduce human exposure to LBP hazards and/or lead containing materials. These measures include, but are not limited to: component and/or substrate repairs; paint and varnish repairs; the removal of dust-lead hazards; renovation; remodeling; maintenance; temporary containment; placement of seed, sod or other forms of vegetation over bare soil areas; the placement of at least six (6) inches of an appropriate mulch material over an impervious material, laid on top of bare soil areas; the tilling of bare soil areas; extensive and specialized cleaning; and ongoing LBP maintenance activities.

Abatement, as defined by HUD, means any set of measures designed to permanently eliminate LBP and/or LBP hazards. 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. These activities include, but are not limited to:

- The removal of LBP from substrates and components;
- The replacement of components or fixtures with lead containing materials and/or LBP;
- The permanent enclosure of LBP with construction materials;
- The encapsulation of LBP with approved products;
- The removal or permanent covering (concrete or asphalt) of soil-lead hazards; and,
- Extensive and specialized cleaning activities.

Based on the findings of the Assessment, LBP as defined by HUD, USEPA, NJDCA, and OSHA was identified at the Site. The OSHA Lead in Construction Standard is applicable to all occupational exposure to lead in all construction work in which lead **in any amount** is present. PARS recommends that the general contractor and any sub-trades be advised of the requirements for compliance with the OSHA Lead in Construction Standard (29 CFR 1926.62). PARS has summarized some of the basic requirements outlined within the Standard. A summary of the OSHA Lead in Construction Standard has been attached hereto as **Appendix G**.

Any proposed LBP impact operations must be completed in accordance with applicable federal, state and /or local regulations including but not limited to:



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- OSHA 29 CFR Part 1926.62 Lead Exposure in Construction;
- Housing and Urban Development Guidelines Chapter 7 (Revised 1997);
- Lead Hazard Evaluation and Abatement Code (N.J.A.C. 5:17); and
- EPA RCRA Hazardous and Solid Waste Amendments.

5.0 SPECIAL CLEANING PRECEDING LEAD HAZARD CONTROL ACTIVITIES

Before any lead hazard control activities begin, the structure and site must be inspected and pre-cleaned following HUD-specified cleaning protocols, as detailed in the HUD Guidelines. Some of the required steps include removing large debris and paint chips followed by high-efficiency particulate air (HEPA) vacuuming of all horizontal surfaces (floors, windowsills, troughs, etc.). The cleaning protocols described in this publication can assist the contractor in doing a preliminary cleaning and improving the chances of passing clearance inspections after remediation. Lead hazard control activities are prioritized below:

HAZARD 1: Removal of floor dust-lead hazard

1. **ABATEMENT:** Lead dust should be properly abated utilizing wet wiping and HEPA vacuum techniques. The work must be carried out by properly trained lead workers, following lead-safe work practices.

HAZARD 2: Scraping LBP on the door lintels and columns

1. **INTERIM CONTROLS - STABILIZATION:** A lead hazard could be created if the door lintels and columns are prepared for repainting (scraped) during the upcoming renovations. Any work that will disturb these surfaces must be carried out by properly trained lead workers, following lead-safe work practices. Following preparation work, the LBP coatings on the door lintels and columns may be addressed by stabilizing the surfaces with new paint. This activity has the potential to create a high volume of lead-contaminated dust, and extra care must be taken by the contractor to limit and contain the dust generated.
2. **ABATEMENT - REPLACEMENT:** Replacement of the door lintels and columns is another possible remediation option. This involves removing paint removal by a heat gun, chemical or contained abrasive, and/or removal and replacement of LBP building components, if possible, and installing new building materials. This remediation option has the potential to generate extremely high amounts of lead contaminated dust and would require appropriate containment.

6.0 SPECIAL CLEANING FOLLOWING LEAD HAZARD CONTROL ACTIVITIES

Interim Control - Follow all lead-safe work practice procedures to reduce dust lead content to less than acceptable clearance level (i.e., 40 micrograms per square foot for floors). Cleaning must be accomplished following the HUD indicated cleaning protocols, as detailed in the HUD Guidelines. The cleaning protocols described in this publication can assist the contractor in thoroughly, properly and safely cleaning the site.



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Cleanup of the remediated areas should be accomplished on an ongoing basis throughout all activities that impact or disturb any known or assumed lead containing materials and paint. When a material, surface coating, substrate, component, or surface is to be impacted as a result of any activity and the lead content is not known, those areas and/or items should be assumed to contain LBP. Accumulation of debris is not recommended, and all plastic drop cloths must be replaced and disposed of properly each day. All trash must be promptly and properly removed from the site and the area left clean as close to original condition as possible. Following the HUD Guidelines will help increase the chances of attaining HUD and State of New Jersey lead-in dust clearance levels.

Please remember that lead testing occurred at a limited number of locations in the structure; LBP and/or lead-containing materials (LCM) could still be present at areas not tested as part of this Lead Hazard Risk Assessment. Great care should be taken by the owner and Contractor if, at a later date, any repair, maintenance, remodeling or renovation activities disturb any paint where the concentrations of lead are not known. In lieu of any additional testing, all surfaces and paint should be assumed to contain lead-based paint.

Some of the remaining test locations exhibited lead-in-paint levels below the HUD levels, but at concentrations high enough to be detectable by the XRF analyzer. It should be noted that lead concentrations (in paint) that are less than the levels that identify a surface coating as LBP still have the potential of causing lead poisoning. Should these or any potential LBP painted components and/or surfaces be disturbed in any manner that generates dust, extreme care must be taken to limit its spread. It should be assumed that any and all painted surfaces, components, or surfaces not requested to be tested as part of this investigation, or any previous investigations are coated with LBP, and that renovation or repair activities in these areas dictate the use of safe work practices that limit dust generation and area contamination.

7.0 ONGOING MONITORING

Ongoing monitoring is necessary in all dwellings in which LBP is known or assumed to be present. At these dwellings, the very real potential exists for LBP hazards to develop. Hazards can develop by means such as, but not limited to: the failure of lead hazard control measures; previously intact LBP becoming deteriorated; dangerous levels of lead-in-dust (dust lead) re-accumulating through friction, impact, and deterioration of paint; or, through the introduction of contaminated exterior dust and soil into the interior of the structure.

Ongoing monitoring typically includes two different activities: re-evaluation and annual visual surveys. A re-evaluation is a risk assessment that includes limited soil and dust sampling and a visual evaluation of paint films and any existing lead hazard controls. Re-evaluations are supplemented with visual surveys by the Homeowner, which should be conducted at least once a year. Homeowner conducted visual surveys do not replace the need for professional re-evaluations. Visual surveys should confirm that all paint with known or suspected LBP are not deteriorating, that lead hazard control methods have not failed, and that structural problems do not threaten the integrity of any remaining known, assumed or suspected LBP. The partial table below is taken from **Table 6.1, Standard Re-evaluation Schedules**, as found in the HUD



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Guidelines. It is intended as a guideline for the Homeowner to assess the condition of areas where hazard control activities occurred.

Factors at this residence require the use of **Ongoing Monitoring Schedule Number 3** to dictate monitoring protocol. Visual surveys by the Homeowner should occur at least annually for all painted surfaces. All surfaces that have undergone the hazard control strategy of Interim Controls, Encapsulation or Enclosure should also be checked during this survey. If components are replaced (i.e., windows, doors, etc.), no re-evaluation or visual survey would be needed, since the LBP would have been removed with the old windows/doors. Please refer to your community development agency, housing authority, or other applicable agency for additional local/regional regulations and guidelines governing re-evaluation activities.

LBP Schedule	Original Evaluation Results	Action taken	Re-evaluation Frequency & Duration	Visual Survey Schedule
3	The average of lead dust levels on all floors, interior windows sills, or window troughs sampled exceeds the applicable standard, but by less than a factor of 10.	A. Interim controls and/or hazard abatement or a mixture of interim controls and abatement including, but not necessarily limited to, dust removal (not including window replacement).	1 year, 2 years	Annually and whenever information indicates a possible problem except for encapsulants. The first visual survey of encapsulants should be done one month after clearance; the second should be done 6 months later and annually thereafter.
		B. Treatment specified in Section A plus replacement of all windows with lead hazards.	1 year	Same as above.
		C. Abatement of all LBP using encapsulation or enclosure.	None	Same as above.
		D. Removal of all LBP.	None	None

8.0 FUTURE REMODELING PRECAUTIONS

Deteriorated or disturbed painted surfaces may still contain LBP and may pose a hazard, especially during renovation. The OSHA Lead in Construction Standard 29 CFR 1926.62 states that those “negative” readings (i.e., those below the HUD/USEPA definition of what constitutes LBP (1.0 mg/cm²)) do not relieve contractors from performing exposure assessments (personal air monitoring) on their employees, and should not be interpreted as lead free. Although a reading may indicate “negative”, airborne lead concentrations still may exceed the OSHA Action Level or the OSHA Permissible Exposure Limit (PEL) depending on the work activity.

A limited number of painted surfaces observed during the Assessment were tested for the presence of LBP. Only LBP hazards that were identified are addressed in this report. However, LBP, dust lead hazards, and/or soil lead hazards may be present at other locations on the property. Additional paint testing should precede any future remodeling activities that occur at any untested



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areas. Additional dust and/or soil sample collection and analysis should follow any hazard control activity, repair, remodeling, or renovation effort, and any other work efforts that may in any way disturb LBP and/or any lead containing materials. These Assessment activities will help the Owner to ensure the health and safety of the occupants and the neighborhood. Details concerning lead safe work techniques and approved hazard control methods can be found in the HUD publication titled: “*Guidelines for the Evaluation and Control of LBP Hazards in Housing*” (Second Edition, July 2012).

9.0 CONDITIONS AND LIMITATIONS

This report is prepared for the sole benefit of NJDCA and Gannett Fleming, Inc. and may not be relied upon by any other person or entity without the written authorization of PARS. This is our report of a visual survey, XRF analysis of the tested components, and wipe sampling. The presence or absence of LBP or LBP hazards applies only to the tested or assessed surfaces on the date of the field visit and it should be understood that the conditions may change due to deterioration or maintenance. The results and material conditions noted within this report were accurate at the time of the evaluation and in no way reflect the conditions at the site tested after December 1, 2014. No other environmental concerns or conditions were addressed during this evaluation.

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PARS appreciates the opportunity to assist the NJDCA and Gannett Fleming, Inc. with this project. Should you have any questions or comments please feel free to contact us at (609) 890-7277.

Respectfully submitted,

PARS ENVIRONMENTAL, INC.

Christa Casciolini
Project Geologist
NJDOH Lead Inspector / Risk Assessor
Permit #026992

Margaret Halasnik
Principal Industrial Hygienist



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**TABLE 1
XRF Lead-Based Paint Test Results**



TABLE 1
XRF LEAD-BASED PAINT TEST RESULTS
EMERGENCY OPERATIONS CENTER AND COAST GUARD STATION
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Date	Reading	Room	Component	Side	Substrate	Paint Color	Paint Condition	Friction, Impact, or Teeth Marked Surface F/I/TM	Result	Lead Content (mg/cm2)
12/1/2014	37									4.68
12/1/2014	38	CALIBRATION	RED FILM		FILM				Positive	1.1
12/1/2014	39	CALIBRATION	RED FILM		FILM				Positive	1
12/1/2014	40	CALIBRATION	RED FILM		FILM				Negative	0.9
12/1/2014	41	MUNICIPAL COURT OFFICE	WALL	A	DRYWALL	WHITE	INTACT		Negative	0
12/1/2014	42	MUNICIPAL COURT OFFICE	WALL	B	PLASTER	WHITE	INTACT		Negative	0
12/1/2014	43	MUNICIPAL COURT OFFICE	WALL	C	PLASTER	WHITE	INTACT		Null	0
12/1/2014	44	MUNICIPAL COURT OFFICE	WALL	C	PLASTER	WHITE	INTACT		Negative	0
12/1/2014	45	MUNICIPAL COURT OFFICE	WALL	D	PLASTER	WHITE	INTACT		Negative	0.01
12/1/2014	46	MUNICIPAL COURT OFFICE	WINDOW FRAME		PLASTER	WHITE	POOR		Negative	0
12/1/2014	47	MUNICIPAL COURT OFFICE	RADIATOR COVER		METAL	WHITE	INTACT		Negative	0
12/1/2014	48	MUNICIPAL COURT OFFICE	CLOSET FRAME		WOOD	WHITE	INTACT		Negative	0
12/1/2014	49	MUNICIPAL COURT OFFICE	CLOSET WALL	D	WOOD	WHITE	INTACT		Negative	0
12/1/2014	50	MUNICIPAL COURT OFFICE	CLOSET WALL	A	PLASTER	WHITE	INTACT		Negative	0
12/1/2014	51	MUNICIPAL COURT OFFICE BATHROOM	DOOR FRAME		WOOD	WHITE	INTACT		Negative	0
12/1/2014	52	MUNICIPAL COURT OFFICE BATHROOM	DOOR JAMB		WOOD	WHITE	INTACT		Negative	0
12/1/2014	53	MUNICIPAL COURT OFFICE BATHROOM	WALL	A	PLASTER	WHITE	INTACT		Negative	0.01
12/1/2014	54	MUNICIPAL COURT OFFICE BATHROOM	WALL	B	DRYWALL	WHITE	INTACT		Negative	0
12/1/2014	55	MUNICIPAL COURT OFFICE BATHROOM	WALL	C	DRYWALL	WHITE	INTACT		Negative	0
12/1/2014	56	MUNICIPAL COURT OFFICE BATHROOM	WALL	D	DRYWALL	WHITE	INTACT		Negative	0
12/1/2014	57	MUNICIPAL COURT OFFICE BATHROOM	WINDOW FRAME		PLASTER	WHITE	POOR		Negative	0
12/1/2014	58	MUNICIPAL COURT OFFICE BATHROOM	CEILING		PLASTER	WHITE	INTACT		Negative	0
12/1/2014	59	MUNICIPAL COURT OFFICE BATHROOM	DOOR FRAME		METAL	WHITE	INTACT		Negative	0.18
12/1/2014	60	TAX OFFICE	DOOR FRAME		METAL	BEIGE	INTACT		Negative	0.01
12/1/2014	61	TAX OFFICE	WALL	A	PLASTER	BEIGE	INTACT		Negative	0.02
12/1/2014	62	TAX OFFICE	WALL	B	DRYWALL	BEIGE	INTACT		Negative	0
12/1/2014	63	TAX OFFICE	WALL	C	PLASTER	WHITE	INTACT		Negative	0.01
12/1/2014	64	TAX OFFICE	WALL	D	PLASTER	BEIGE	INTACT		Negative	0
12/1/2014	65	TAX OFFICE	WINDOW FRAME		PLASTER	WHITE	INTACT		Negative	0



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Date	Reading	Room	Component	Side	Substrate	Paint Color	Paint Condition	Friction, Impact, or Teeth Marked Surface F/I/TM	Result	Lead Content (mg/cm2)
12/1/2014	66	TAX OFFICE BATHROOM	DOOR FRAME		METAL	WHITE	INTACT		Negative	0.04
12/1/2014	67	TAX OFFICE BATHROOM	DOOR JAMB		METAL	BEIGE	INTACT		Negative	0.04
12/1/2014	68	TAX OFFICE BATHROOM	WALL	A	DRYWALL	WHITE	INTACT		Negative	0
12/1/2014	69	TAX OFFICE BATHROOM	WALL	B	DRYWALL	WHITE	INTACT		Negative	0.01
12/1/2014	70	TAX OFFICE BATHROOM	WALL	C	PLASTER	WHITE	INTACT		Negative	0.01
12/1/2014	71	TAX OFFICE BATHROOM	WALL	D	DRYWALL	WHITE	INTACT		Negative	0
12/1/2014	72	TAX OFFICE BATHROOM	STALL		METAL	GRAY	INTACT		Negative	0.05
12/1/2014	73	EXIT 1	DOOR FRAME		METAL	BROWN	INTACT		Negative	0.2
12/1/2014	74	EXIT 1	DOOR		METAL	BROWN	INTACT		Negative	0.29
12/1/2014	75	EXIT 1	DOOR LINTEL		METAL	GRAY	POOR		Positive	1.7
12/1/2014	76	FOYER	WALL	A	PLASTER	GRAY	POOR		Negative	0.19
12/1/2014	77	FOYER	WALL	B	PLASTER	GRAY	POOR		Null	0
12/1/2014	78	FOYER	WALL	B	PLASTER	GRAY	INTACT		Negative	0
12/1/2014	79	FOYER	WALL	C	PLASTER	GRAY	INTACT		Negative	0.3
12/1/2014	80	FOYER	WALL	D	PLASTER	GRAY	INTACT		Negative	0.6
12/1/2014	81	FOYER	WALL	C	PLASTER	RED	INTACT		Negative	0.25
12/1/2014	82	HALL	WALL	A	PLASTER	BEIGE	INTACT		Negative	0.28
12/1/2014	83	HALL	WALL		PLASTER	BEIGE	INTACT		Null	0.2
12/1/2014	84	HALL	WALL		PLASTER	BEIGE	INTACT		Null	1
12/1/2014	85	HALL	WALL	B	PLASTER	BEIGE	INTACT		Negative	0.22
12/1/2014	86	HALL	WALL	C	PLASTER	BEIGE	INTACT		Negative	0.4
12/1/2014	87	HALL	WALL	D	PLASTER	BEIGE	INTACT		Negative	0
12/1/2014	88	W104	WALL	A	PLASTER	BEIGE	INTACT		Negative	0
12/1/2014	89	W104	WALL	B	PLASTER	BEIGE	INTACT		Negative	0.01
12/1/2014	90	W104	WALL	C	PLASTER	BEIGE	INTACT		Negative	0
12/1/2014	91	W104	WALL	D	PLASTER	BEIGE	INTACT		Negative	0
12/1/2014	92	W104	CEILING		PLASTER	WHITE	INTACT		Negative	0.01
12/1/2014	93	W104	WINDOW FRAME		PLASTER	BEIGE	POOR		Null	0
12/1/2014	94	W104 BATHROOM	DOOR		WOOD	BEIGE	INTACT		Negative	0.5



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Date	Reading	Room	Component	Side	Substrate	Paint Color	Paint Condition	Friction, Impact, or Teeth Marked Surface F/I/TM	Result	Lead Content (mg/cm2)
12/1/2014	95	W104 BATHROOM	DOOR FRAME		WOOD	BEIGE	INTACT		Negative	0.5
12/1/2014	96	W104 BATHROOM	DOOR JAMB		WOOD	BEIGE	INTACT		Negative	0.4
12/1/2014	97	W104 BATHROOM	WALL	A	PLASTER	BEIGE	INTACT		Negative	0
12/1/2014	98	W104 BATHROOM	WALL	B	PLASTER	BEIGE	INTACT		Positive	1.4
12/1/2014	99	W104 BATHROOM	WALL	B	PLASTER	BEIGE	INTACT		Null	1.3
12/1/2014	100	W104 BATHROOM	WALL	C	PLASTER	BEIGE	INTACT		Null	0.7
12/1/2014	101	W104 BATHROOM	WALL	C	DRYWALL	BEIGE	INTACT		Negative	0.6
12/1/2014	102	W104 BATHROOM	WALL	D	PLASTER	BEIGE	INTACT		Negative	0.6
12/1/2014	103	W104 BATHROOM	WALL	B	PLASTER	BEIGE	INTACT		Null	0.8
12/1/2014	104	W104 BATHROOM	WALL	B	PLASTER	BEIGE	INTACT		Negative	0.4
12/1/2014	105	W104 BATHROOM	WINDOW FRAME		PLASTER	WHITE	INTACT		Negative	0
12/1/2014	106	W104 BATHROOM	WINDOW FRAME		WOOD	WHITE	INTACT		Negative	0
12/1/2014	107	W106	WALL	A	WOOD	WHITE	INTACT		Negative	0
12/1/2014	108	W106	WALL	B	PLASTER	WHITE	INTACT		Negative	0
12/1/2014	109	W106	WALL	C	DRYWALL	WHITE	INTACT		Negative	0.01
12/1/2014	110	W106	WALL	D	DRYWALL	WHITE	INTACT		Negative	0.02
12/1/2014	111	W106	WINDOW FRAME		DRYWALL	WHITE	INTACT		Negative	0
12/1/2014	112	W106 BATHROOM	WALL	A	PLASTER	WHITE	INTACT		Negative	0
12/1/2014	113	W106 BATHROOM	WALL	B	PLASTER	WHITE	INTACT		Negative	0
12/1/2014	114	W106 BATHROOM	WALL	C	PLASTER	WHITE	INTACT		Negative	0
12/1/2014	115	W106 BATHROOM	WALL	D	PLASTER	WHITE	INTACT		Negative	0.01
12/1/2014	116	W103	WALL	A	PLASTER	BEIGE	INTACT		Null	0
12/1/2014	117	W103	WALL	A	PLASTER	BEIGE	INTACT		Null	0.05
12/1/2014	118	W103	WALL	A	PLASTER	BEIGE	INTACT		Negative	0
12/1/2014	119	W103	WALL	B	PLASTER	BEIGE	INTACT		Null	0
12/1/2014	120	W103	WALL	B	PLASTER	BEIGE	INTACT		Negative	0
12/1/2014	121	W103	WALL	C	PLASTER	BEIGE	INTACT		Negative	0
12/1/2014	122	W103	WALL	D	PLASTER	BEIGE	INTACT		Negative	0
12/1/2014	123	W103	WINDOW FRAME		PLASTER	BEIGE	INTACT		Negative	0



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Date	Reading	Room	Component	Side	Substrate	Paint Color	Paint Condition	Friction, Impact, or Teeth Marked Surface F/I/TM	Result	Lead Content (mg/cm2)
12/1/2014	124	EXIT 2	WALL	A	DRYWALL	BEIGE	INTACT		Negative	0
12/1/2014	125	EXIT 2	WALL	B	PLASTER	BEIGE	INTACT		Negative	0.04
12/1/2014	126	EXIT 2	WALL	C	PLASTER	BEIGE	INTACT		Negative	0.02
12/1/2014	127	EXIT 2	WALL	D	PLASTER	BEIGE	INTACT		Negative	0.03
12/1/2014	128	EXIT 2	DOOR FRAME		METAL	BROWN	INTACT		Negative	0
12/1/2014	129	EXIT 2	DOOR		METAL	BROWN	INTACT		Negative	0
12/1/2014	130	EXIT 2	DOOR LINTEL		METAL	GRAY	POOR		Positive	1.8
12/1/2014	131	EXIT 3	DOOR FRAME		METAL	BROWN	INTACT		Negative	0.02
12/1/2014	132	EXIT 3	DOOR		METAL	BROWN	INTACT		Null	0
12/1/2014	133	EXIT 3	DOOR		METAL	BROWN	INTACT		Negative	0
12/1/2014	134	EXIT 3 STAIRWAY	WALL	A	DRYWALL	BEIGE	INTACT		Negative	0
12/1/2014	135	EXIT 3 STAIRWAY	WALL	B	DRYWALL	BEIGE	INTACT		Negative	0
12/1/2014	136	EXIT 3 STAIRWAY	WALL	C	DRYWALL	BEIGE	INTACT		Negative	0
12/1/2014	137	EXIT 3 STAIRWAY	WALL	D	DRYWALL	BEIGE	INTACT		Negative	0
12/1/2014	138	EXIT 3 STAIRWAY	STRINGER		METAL	WHITE	INTACT		Negative	0.5
12/1/2014	139	GYM	DOOR FRAME		METAL	WHITE	INTACT		Negative	0
12/1/2014	140	GYM	DOOR JAMB		METAL	WHITE	INTACT		Negative	0.02
12/1/2014	141	GYM	DOOR		METAL	WHITE	INTACT		Negative	0
12/1/2014	142	GYM	WALL	A	CONCRETE	GRAY	INTACT		Negative	0
12/1/2014	143	GYM	WALL	B	CONCRETE	GRAY	INTACT		Negative	0
12/1/2014	144	GYM	WALL	C	CONCRETE	GRAY	INTACT		Negative	0
12/1/2014	145	GYM	WALL	D	CONCRETE	GRAY	INTACT		Negative	0
12/1/2014	146	GYM	WINDOW SILL		WOOD	GRAY	INTACT		Negative	0
12/1/2014	147	GYM	WINDOW FRAME		WOOD	GRAY	INTACT		Negative	0
12/1/2014	148	GYM BATHROOM	WALL	A	CONCRETE	GRAY	INTACT		Negative	0
12/1/2014	149	GYM BATHROOM	WALL	B	CONCRETE	GRAY	POOR		Negative	0
12/1/2014	150	GYM BATHROOM	WALL	C	DRYWALL	GRAY	INTACT		Negative	0.01
12/1/2014	151	GYM BATHROOM	WALL	D	DRYWALL	GRAY	INTACT		Negative	0
12/1/2014	152	GYM BATHROOM	WALL	D	WOOD	GRAY	INTACT		Negative	0



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Date	Reading	Room	Component	Side	Substrate	Paint Color	Paint Condition	Friction, Impact, or Teeth Marked Surface F/I/TM	Result	Lead Content (mg/cm2)
12/1/2014	153	EXIT 3 STAIRWAY	WINDOW FRAME	3rd FL	WOOD	BEIGE	INTACT		Negative	0
12/1/2014	154	EXIT 3 STAIRWAY	WINDOW SILL	3rd FL	WOOD	BEIGE	INTACT		Negative	0
12/1/2014	155	EXIT 3 STAIRWAY	WINDOW FRAME	mid level	METAL	BEIGE	INTACT		Negative	0
12/1/2014	156	SUPPLY	WINDOW FRAME		WOOD	BEIGE	INTACT		Negative	0
12/1/2014	157	SUPPLY	WINDOW SILL		WOOD	BEIGE	INTACT		Negative	0
12/1/2014	158	SUPPLY	WALL	A	DRYWALL	BEIGE	INTACT		Negative	0
12/1/2014	159	SUPPLY	WALL	B	PLASTER	BEIGE	INTACT		Negative	0.03
12/1/2014	160	SUPPLY	WALL	C	PLASTER	BEIGE	INTACT		Null	0
12/1/2014	161	SUPPLY	WALL	C	PLASTER	BEIGE	INTACT		Negative	0
12/1/2014	162	SUPPLY	WALL	D	PLASTER	BEIGE	INTACT		Negative	0
12/1/2014	163	SUPPLY	PIPE		FIBERGLASS	BEIGE	INTACT		Negative	0
12/1/2014	164	SUPPLY	CEILING		PLASTER	BEIGE	INTACT		Negative	0.02
12/1/2014	165	COMMANDING OFFICER'S OFFICE	WALL	A	PLASTER	BEIGE	INTACT		Negative	0
12/1/2014	166	GENERATOR ROOM	DOOR FRAME		PLASTER	BEIGE	INTACT		Null	0.22
12/1/2014	167	GENERATOR ROOM	DOOR JAMB		METAL	BEIGE	INTACT		Negative	0.3
12/1/2014	168	GENERATOR ROOM	DOOR		METAL	BEIGE	INTACT		Negative	0.01
12/1/2014	169	GENERATOR ROOM	WALL	A	CONCRETE BOARD	GRAY	INTACT		Negative	0.01
12/1/2014	170	GENERATOR ROOM	WALL	B	CONCRETE BOARD	GRAY	INTACT		Negative	0.08
12/1/2014	171	GENERATOR ROOM	WALL	C	CONCRETE BOARD	GRAY	INTACT		Negative	0.02
12/1/2014	172	GENERATOR ROOM	WALL	D	CONCRETE BOARD	GRAY	INTACT		Negative	0.02
12/1/2014	173	GENERATOR ROOM	WINDOW FRAME		CONCRETE BOARD	GRAY	INTACT		Negative	0.02
12/1/2014	174	GENERATOR ROOM	DOOR FRAME EXIT		METAL	GRAY	INTACT		Negative	0
12/1/2014	175	GENERATOR ROOM	PIPE		METAL	GRAY	INTACT		Positive	3.2
12/1/2014	176	GENERATOR ROOM	PIPE		FIBERGLASS	GRAY	INTACT		Negative	0
12/1/2014	177	CALIBRATION	RED FILM		FILM				Negative	0.9
12/1/2014	178	CALIBRATION	RED FILM		FILM				Positive	1
12/1/2014	179	CALIBRATION	RED FILM		FILM				Positive	1.1
12/1/2014	180									4.61
12/1/2014	181	CALIBRATION	RED FILM		FILM				Positive	1



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Date	Reading	Room	Component	Side	Substrate	Paint Color	Paint Condition	Friction, Impact, or Teeth Marked Surface F/I/TM	Result	Lead Content (mg/cm2)
12/1/2014	182	CALIBRATION	RED FILM		FILM				Negative	0.9
12/1/2014	183	CALIBRATION	RED FILM		FILM				Positive	1.1
12/1/2014	184	COURT	WALL	A	PLASTER	WHITE	INTACT		Negative	0.01
12/1/2014	185	COURT	WALL	B	PLASTER	WHITE	INTACT		Negative	0.17
12/1/2014	186	COURT	WALL	C	PLASTER	WHITE	INTACT		Negative	0.01
12/1/2014	187	COURT	WALL	D	PLASTER	WHITE	INTACT		Negative	0.04
12/1/2014	188	COURT	WALL	D	PLASTER	BLUE	INTACT		Negative	0.04
12/1/2014	189	COURT	WINDOW FRAME		WOOD	BROWN	INTACT		Negative	0.05
12/1/2014	190	KITCHEN	WALL	A	PLASTER	WHITE	INTACT		Negative	0.09
12/1/2014	191	KITCHEN	WALL	B	PLASTER	WHITE	INTACT		Negative	0
12/1/2014	192	KITCHEN	WALL	C	PLASTER	WHITE	INTACT		Negative	0.01
12/1/2014	193	KITCHEN	WALL	D	PLASTER	WHITE	INTACT		Negative	0.01
12/1/2014	194	KITCHEN BATHROOM	WINDOW FRAME		PLASTER	WHITE	FAIR		Negative	0.08
12/1/2014	195	EXIT 4	DOOR LINTEL		METAL	BROWN	FAIR		Positive	2.7
12/1/2014	196	ALARM ROOM	WINDOW FRAME		WOOD	BEIGE	FAIR		Negative	0
12/1/2014	197	ALARM ROOM	WINDOW FRAME		PLASTER	BEIGE	FAIR		Null	0.01
12/1/2014	198	ALARM ROOM	WINDOW FRAME		PLASTER	BEIGE	FAIR		Negative	0.02
12/1/2014	199	ALARM ROOM HALL	CEILING TILE		WOOD	BEIGE	FAIR		Negative	0
12/1/2014	200	HALL TO CLERK'S OFFICE	WINDOW FRAME		WOOD	BEIGE	FAIR		Negative	0
12/1/2014	201	HALL TO CLERK'S OFFICE	DOOR FRAME		METAL	BEIGE	FAIR		Negative	0
12/1/2014	202	CLERK'S OFFICE	WALL	C	DRYWALL	BLUE	FAIR		Negative	0
12/1/2014	203	CLERK'S OFFICE	WALL	D	DRYWALL	BLUE	FAIR		Negative	0
12/1/2014	204	BUILDING DEPARTMENT	WALL	A	DRYWALL	WHITE	INTACT		Negative	0
12/1/2014	205	BUILDING DEPARTMENT	WALL	B	DRYWALL	WHITE	INTACT		Negative	0
12/1/2014	206	BUILDING DEPARTMENT	WALL	C	DRYWALL	WHITE	INTACT		Negative	0
12/1/2014	207	BUILDING DEPARTMENT	WALL	D	DRYWALL	WHITE	INTACT		Negative	0
12/1/2014	208	BUILDING DEPARTMENT	WINDOW FRAME		WOOD	BEIGE	INTACT		Negative	0
12/1/2014	209	BUILDING DEPARTMENT	WINDOW SILL		WOOD	BEIGE	INTACT		Negative	0
12/1/2014	210	EOC OFFICE 1	WINDOW FRAME		WOOD	BROWN	INTACT		Negative	0



TABLE 1
XRF LEAD-BASED PAINT TEST RESULTS
EMERGENCY OPERATIONS CENTER AND COAST GUARD STATION
420 PELHAM AVENUE
BEACH HAVEN, NEW JERSEY 08008

Date	Reading	Room	Component	Side	Substrate	Paint Color	Paint Condition	Friction, Impact, or Teeth Marked Surface F/I/TM	Result	Lead Content (mg/cm2)
12/1/2014	211	EOC OFFICE 1	WINDOW SILL		WOOD	BROWN	INTACT		Negative	0
12/1/2014	212	EOC OFFICE 1	WALL	A	DRYWALL	BLUE	INTACT		Negative	0
12/1/2014	213	EOC OFFICE 2	WALL	C	DRYWALL	BLUE	INTACT		Negative	0
12/1/2014	214	EXIT 5	DOOR		METAL	BROWN	INTACT		Negative	0
12/1/2014	215	EXIT 5	DOOR FRAME		METAL	BROWN	INTACT		Negative	0.01
12/1/2014	216	ADMINISTRATION OFFICE	WALL	D	DRYWALL	WHITE	INTACT		Negative	0
12/1/2014	217	ADMINISTRATION OFFICE	WINDOW FRAME		WOOD	WHITE	INTACT		Negative	0
12/1/2014	218	ADMINISTRATION OFFICE	WINDOW SILL		WOOD	WHITE	INTACT		Negative	0
12/1/2014	219	CONFERENCE ROOM	WINDOW SILL	D	WOOD	WHITE	INTACT		Negative	0
12/1/2014	220	CONFERENCE ROOM	WALL	C	DRYWALL	WHITE	INTACT		Negative	0
12/1/2014	221	CONFERENCE ROOM	WALL	B	DRYWALL	WHITE	INTACT		Negative	0
12/1/2014	222	CONFERENCE ROOM	WALL	A	DRYWALL	WHITE	INTACT		Negative	0
12/1/2014	223	CONFERENCE ROOM	BASEBOARD		WOOD	WHITE	INTACT		Negative	0.01
12/1/2014	224	FINANCE OFFICE	WALL	A	DRYWALL	WHITE	INTACT		Negative	0
12/1/2014	225	FINANCE OFFICE	WALL	C	DRYWALL	WHITE	INTACT		Negative	0
12/1/2014	226	FINANCE OFFICE	DOOR FRAME		METAL	GREEN	INTACT		Negative	0
12/1/2014	227	EXIT 6	DOOR FRAME		METAL	BROWN	INTACT		Negative	0
12/1/2014	228	EXIT 6	DOOR		METAL	BROWN	INTACT		Negative	0
12/1/2014	229	EXIT 6	WINDOW FRAME		WOOD	BEIGE	INTACT		Negative	0
12/1/2014	230	EXIT 6	WINDOW SILL		WOOD	BEIGE	INTACT		Negative	0
12/1/2014	231	EXIT 6	WINDOW SILL		WOOD	BEIGE	INTACT		Negative	0.01
12/1/2014	232	CLERK HALL	FLOOR		CERAMIC TILE	BROWN	INTACT		Negative	0
12/1/2014	233	CALIBRATION	RED FILM		FILM	RED	INTACT		Positive	1.1
12/1/2014	234	CALIBRATION	RED FILM		FILM	RED	INTACT		Positive	1.1
12/1/2014	235	CALIBRATION	RED FILM		FILM	RED	INTACT		Positive	1.1
12/1/2014	236									4.34
12/1/2014	237	CALIBRATION	RED FILM		FILM				Null	1
12/1/2014	238	CALIBRATION	RED FILM		FILM				Positive	1
12/1/2014	239	CALIBRATION	RED FILM		FILM				Positive	1.1



TABLE 1
XRF LEAD-BASED PAINT TEST RESULTS
EMERGENCY OPERATIONS CENTER AND COAST GUARD STATION
420 PELHAM AVENUE
BEACH HAVEN, NEW JERSEY 08008

Date	Reading	Room	Component	Side	Substrate	Paint Color	Paint Condition	Friction, Impact, or Teeth Marked Surface F/I/TM	Result	Lead Content (mg/cm2)
12/1/2014	240	CALIBRATION	RED FILM		FILM				Positive	1
12/1/2014	241	FILE ROOM 1	WALL	B	DRYWALL	WHITE	INTACT		Negative	0
12/1/2014	242	FILE ROOM 1	WINDOW FRAME		WOOD	BEIGE	INTACT		Negative	0
12/1/2014	243	EXTERIOR	TRIM EXIT 3		WOOD	WHITE	INTACT		Negative	0
12/1/2014	244	EXTERIOR	SHINGLE		WOOD	BLUE	INTACT		Negative	0
12/1/2014	245	EXTERIOR	TRIM		CONCRETE	WHITE	INTACT		Negative	0.03
12/1/2014	246	EXTERIOR	STUCCO		CONCRETE	BLUE	INTACT		Negative	0.01
12/1/2014	247	EXTERIOR	1st FL WINDOW FRAME		WOOD	WHITE	INTACT		Negative	0
12/1/2014	248	EXTERIOR	PANELING		WOOD	BLUE	INTACT		Negative	0
12/1/2014	249	EXTERIOR	COLUMN		CONCRETE	WHITE	INTACT		Positive	4.8
12/1/2014	250	EXTERIOR	TRIM		CONCRETE	WHITE	INTACT		Null	0.01
12/1/2014	251	EXTERIOR	COLUMN		CONCRETE	WHITE	INTACT		Positive	9.2
12/1/2014	252	EXTERIOR	TRIM		CONCRETE	WHITE	INTACT		Negative	0
12/1/2014	253	EXTERIOR	WINDOW FRAME		METAL	BROWN	INTACT		Negative	0
12/1/2014	254	EXTERIOR	WINDOW LINTEL		METAL	GRAY	INTACT		Negative	0.7
12/1/2014	255	EXTERIOR	HVAC BOX		METAL	RED	INTACT		Negative	0
12/1/2014	256	EXTERIOR	COLUMN		WOOD	BLUE	FAIR		Negative	0
12/1/2014	257	EXTERIOR	RAILING		WOOD	BLACK	FAIR		Negative	0.01
12/1/2014	258	EXTERIOR	TREAD EXIT 6		WOOD	BLACK	FAIR		Negative	0.01
12/1/2014	259	EXTERIOR	PANELING		WOOD	BLUE	FAIR		Negative	0.01
12/1/2014	260	EXTERIOR	FOUNDATION		CONCRETE	BLUE	FAIR		Negative	0
12/1/2014	261	EXTERIOR	TREAD EXIT 5		WOOD	WHITE	POOR		Negative	0.01
12/1/2014	262	CALIBRATION	RED FILM		FILM	RED			Positive	1
12/1/2014	263	CALIBRATION	RED FILM		FILM	RED			Positive	1
12/1/2014	264	CALIBRATION	RED FILM		FILM	RED			Positive	1
12/1/2014	265	CALIBRATION	RED FILM		FILM	RED			Positive	1.2



**PRE-REHABILITATION: LEAD-BASED PAINT RISK ASSESSMENT
EMERGENCY OPERATIONS CENTER AND COAST GUARD STATION
420 PELHAM AVENUE
BEACH HAVEN, NEW JERSEY 08008
DECEMBER 2014**

PARS

**TABLE 2
XRF Direct Reading Results**



TABLE 2
XRF DIRECT READING RESULTS
EMERGENCY OPERATIONS CENTER
AND COAST GUARD STATION
420 PELHAM AVENUE
BEACH HAVEN, NEW JERSEY 08008

Date/Time	Reading	Mode	Duration	Results	PbC	PbC Error
12/1/2014 10:38	37		82.58		4.68	0
12/1/2014 10:39	38	PAINT	15.24	Positive	1.1	0.1
12/1/2014 10:40	39	PAINT	19.94	Positive	1	0.1
12/1/2014 10:41	40	PAINT	7.22	Negative	0.9	0.1
12/1/2014 10:46	41	PAINT	3.37	Negative	0	0.02
12/1/2014 10:47	42	PAINT	3.81	Negative	0	0.02
12/1/2014 10:48	43	PAINT	1.28	Null	0	0.02
12/1/2014 10:48	44	PAINT	2.97	Negative	0	0.02
12/1/2014 10:48	45	PAINT	2.13	Negative	0.01	0.03
12/1/2014 10:51	46	PAINT	2.56	Negative	0	0.02
12/1/2014 10:53	47	PAINT	1.27	Negative	0	0.02
12/1/2014 10:54	48	PAINT	1.27	Negative	0	0.02
12/1/2014 10:56	49	PAINT	1.27	Negative	0	0.02
12/1/2014 10:58	50	PAINT	3.38	Negative	0	0.02
12/1/2014 10:59	51	PAINT	1.27	Negative	0	0.02
12/1/2014 11:00	52	PAINT	1.27	Negative	0	0.02
12/1/2014 11:01	53	PAINT	2.96	Negative	0.01	0.03
12/1/2014 11:02	54	PAINT	1.71	Negative	0	0.02
12/1/2014 11:02	55	PAINT	2.98	Negative	0	0.02
12/1/2014 11:03	56	PAINT	1.27	Negative	0	0.02
12/1/2014 11:04	57	PAINT	3.39	Negative	0	0.02
12/1/2014 11:06	58	PAINT	1.27	Negative	0	0.02
12/1/2014 11:07	59	PAINT	1.27	Negative	0.18	0.42
12/1/2014 11:12	60	PAINT	3.41	Negative	0.01	0.83
12/1/2014 11:13	61	PAINT	3.39	Negative	0.02	0.04
12/1/2014 11:14	62	PAINT	1.27	Negative	0	0.02
12/1/2014 11:16	63	PAINT	3.39	Negative	0.01	0.02
12/1/2014 11:16	64	PAINT	3.38	Negative	0	0.02
12/1/2014 11:18	65	PAINT	3.39	Negative	0	0.02
12/1/2014 11:20	66	PAINT	1.28	Negative	0.04	0.14
12/1/2014 11:20	67	PAINT	1.27	Negative	0.04	0.11
12/1/2014 11:22	68	PAINT	1.7	Negative	0	0.02
12/1/2014 11:22	69	PAINT	2.13	Negative	0.01	0.03
12/1/2014 11:23	70	PAINT	4.22	Negative	0.01	0.02
12/1/2014 11:23	71	PAINT	1.27	Negative	0	0.02
12/1/2014 11:25	72	PAINT	1.27	Negative	0.05	0.07
12/1/2014 11:29	73	PAINT	3.81	Negative	0.2	0.77
12/1/2014 11:30	74	PAINT	1.27	Negative	0.29	0.3
12/1/2014 11:31	75	PAINT	1.7	Positive	1.7	0.6
12/1/2014 11:35	76	PAINT	20	Negative	0.19	0.05



TABLE 2
XRF DIRECT READING RESULTS
EMERGENCY OPERATIONS CENTER
AND COAST GUARD STATION
420 PELHAM AVENUE
BEACH HAVEN, NEW JERSEY 08008

Date/Time	Reading	Mode	Duration	Results	PbC	PbC Error
12/1/2014 11:35	77	PAINT	2.11	Null	0	0.02
12/1/2014 11:35	78	PAINT	2.13	Negative	0	0.02
12/1/2014 11:36	79	PAINT	3.41	Negative	0.3	0.2
12/1/2014 11:36	80	PAINT	3.39	Negative	0.6	0.3
12/1/2014 11:37	81	PAINT	3.38	Negative	0.25	0.08
12/1/2014 11:38	82	PAINT	4.65	Negative	0.28	0.71
12/1/2014 11:39	83	PAINT	0.42	Null	0.2	1.07
12/1/2014 11:40	84	PAINT	8.03	Null	1	0.5
12/1/2014 11:40	85	PAINT	3.39	Negative	0.22	0.17
12/1/2014 11:41	86	PAINT	10.16	Negative	0.4	0.2
12/1/2014 11:43	87	PAINT	3.37	Negative	0	0.02
12/1/2014 11:45	88	PAINT	3.39	Negative	0	0.02
12/1/2014 11:45	89	PAINT	3.41	Negative	0.01	0.03
12/1/2014 11:45	90	PAINT	3.37	Negative	0	0.02
12/1/2014 11:46	91	PAINT	2.97	Negative	0	0.02
12/1/2014 11:47	92	PAINT	2.97	Negative	0.01	0.03
12/1/2014 11:47	93	PAINT	1.69	Null	0	0.02
12/1/2014 11:49	94	PAINT	1.28	Negative	0.5	0.5
12/1/2014 11:49	95	PAINT	1.71	Negative	0.5	0.5
12/1/2014 11:50	96	PAINT	1.71	Negative	0.4	0.5
12/1/2014 11:50	97	PAINT	3.39	Negative	0	0.02
12/1/2014 11:51	98	PAINT	14.01	Positive	1.4	0.4
12/1/2014 11:52	99	PAINT	20	Null	1.3	0.4
12/1/2014 11:55	100	PAINT	2.97	Null	0.7	0.6
12/1/2014 11:55	101	PAINT	5.92	Negative	0.6	0.3
12/1/2014 11:56	102	PAINT	3.38	Negative	0.6	0.3
12/1/2014 11:57	103	PAINT	20	Null	0.8	0.2
12/1/2014 11:57	104	PAINT	6.35	Negative	0.4	0.2
12/1/2014 11:59	105	PAINT	2.13	Negative	0	0.02
12/1/2014 11:59	106	PAINT	1.27	Negative	0	0.02
12/1/2014 12:02	107	PAINT	1.71	Negative	0	0.02
12/1/2014 12:02	108	PAINT	2.99	Negative	0	0.02
12/1/2014 12:03	109	PAINT	2.55	Negative	0.01	0.02
12/1/2014 12:03	110	PAINT	3.37	Negative	0.02	0.05
12/1/2014 12:04	111	PAINT	2.56	Negative	0	0.02
12/1/2014 12:06	112	PAINT	4.24	Negative	0	0.02
12/1/2014 12:06	113	PAINT	2.13	Negative	0	0.02
12/1/2014 12:07	114	PAINT	2.54	Negative	0	0.02
12/1/2014 12:07	115	PAINT	2.53	Negative	0.01	0.02
12/1/2014 12:09	116	PAINT	0.85	Null	0	0.02



TABLE 2
XRF DIRECT READING RESULTS
EMERGENCY OPERATIONS CENTER
AND COAST GUARD STATION
420 PELHAM AVENUE
BEACH HAVEN, NEW JERSEY 08008

Date/Time	Reading	Mode	Duration	Results	PbC	PbC Error
12/1/2014 12:09	117	PAINT	0.85	Null	0.05	0.39
12/1/2014 12:10	118	PAINT	2.97	Negative	0	0.02
12/1/2014 12:10	119	PAINT	2.96	Null	0	0.02
12/1/2014 12:11	120	PAINT	1.27	Negative	0	0.02
12/1/2014 12:11	121	PAINT	1.27	Negative	0	0.02
12/1/2014 12:11	122	PAINT	1.7	Negative	0	0.02
12/1/2014 12:12	123	PAINT	2.11	Negative	0	0.02
12/1/2014 12:19	124	PAINT	1.27	Negative	0	0.02
12/1/2014 12:20	125	PAINT	3.38	Negative	0.04	0.06
12/1/2014 12:21	126	PAINT	3.41	Negative	0.02	0.03
12/1/2014 12:21	127	PAINT	3.81	Negative	0.03	0.03
12/1/2014 12:22	128	PAINT	2.53	Negative	0	0.02
12/1/2014 12:23	129	PAINT	1.69	Negative	0	0.02
12/1/2014 12:25	130	PAINT	7.22	Positive	1.8	0.7
12/1/2014 12:39	131	PAINT	3.38	Negative	0.02	0.02
12/1/2014 12:39	132	PAINT	1.69	Null	0	0.02
12/1/2014 12:40	133	PAINT	3.39	Negative	0	0.02
12/1/2014 12:41	134	PAINT	2.53	Negative	0	0.02
12/1/2014 12:41	135	PAINT	2.54	Negative	0	0.02
12/1/2014 12:42	136	PAINT	1.27	Negative	0	0.02
12/1/2014 12:43	137	PAINT	2.12	Negative	0	0.02
12/1/2014 12:45	138	PAINT	1.27	Negative	0.5	0.5
12/1/2014 12:46	139	PAINT	1.27	Negative	0	0.02
12/1/2014 12:46	140	PAINT	1.27	Negative	0.02	0.08
12/1/2014 12:47	141	PAINT	1.27	Negative	0	0.02
12/1/2014 12:49	142	PAINT	3.39	Negative	0	0.02
12/1/2014 12:50	143	PAINT	3.39	Negative	0	0.02
12/1/2014 12:50	144	PAINT	3.39	Negative	0	0.02
12/1/2014 12:50	145	PAINT	3.38	Negative	0	0.02
12/1/2014 12:51	146	PAINT	1.27	Negative	0	0.02
12/1/2014 12:52	147	PAINT	1.27	Negative	0	0.02
12/1/2014 12:53	148	PAINT	3.38	Negative	0	0.02
12/1/2014 12:54	149	PAINT	4.69	Negative	0	0.02
12/1/2014 12:54	150	PAINT	2.11	Negative	0.01	0.04
12/1/2014 12:55	151	PAINT	2.98	Negative	0	0.02
12/1/2014 12:55	152	PAINT	1.27	Negative	0	0.02
12/1/2014 13:01	153	PAINT	1.27	Negative	0	0.02
12/1/2014 13:02	154	PAINT	1.27	Negative	0	0.02
12/1/2014 13:03	155	PAINT	1.27	Negative	0	0.02
12/1/2014 13:10	156	PAINT	1.69	Negative	0	0.04



TABLE 2
XRF DIRECT READING RESULTS
EMERGENCY OPERATIONS CENTER
AND COAST GUARD STATION
420 PELHAM AVENUE
BEACH HAVEN, NEW JERSEY 08008

Date/Time	Reading	Mode	Duration	Results	PbC	PbC Error
12/1/2014 13:11	157	PAINT	1.27	Negative	0	0.02
12/1/2014 13:11	158	PAINT	1.69	Negative	0	0.02
12/1/2014 13:12	159	PAINT	3.41	Negative	0.03	0.06
12/1/2014 13:12	160	PAINT	0.85	Null	0	0.02
12/1/2014 13:12	161	PAINT	3.41	Negative	0	0.02
12/1/2014 13:13	162	PAINT	3.41	Negative	0	0.02
12/1/2014 13:17	163	PAINT	1.28	Negative	0	0.02
12/1/2014 13:18	164	PAINT	3.39	Negative	0.02	0.03
12/1/2014 13:19	165	PAINT	3.4	Negative	0	0.02
12/1/2014 13:25	166	PAINT	1.7	Null	0.22	0.32
12/1/2014 13:27	167	PAINT	4.65	Negative	0.3	0.69
12/1/2014 13:27	168	PAINT	1.27	Negative	0.01	0.04
12/1/2014 13:29	169	PAINT	3.4	Negative	0.01	0.02
12/1/2014 13:30	170	PAINT	2.53	Negative	0.08	0.11
12/1/2014 13:31	171	PAINT	1.27	Negative	0.02	0.04
12/1/2014 13:31	172	PAINT	2.53	Negative	0.02	0.05
12/1/2014 13:32	173	PAINT	3.39	Negative	0.02	0.02
12/1/2014 13:36	174	PAINT	3.8	Negative	0	0.02
12/1/2014 13:40	175	PAINT	2.11	Positive	3.2	1.9
12/1/2014 13:41	176	PAINT	1.27	Negative	0	0.03
12/1/2014 13:42	177	PAINT	7.67	Negative	0.9	0.1
12/1/2014 13:43	178	PAINT	19.89	Positive	1	0.1
12/1/2014 13:43	179	PAINT	9.76	Positive	1.1	0.1
12/1/2014 13:58	180	PAINT	82.51		4.61	0
12/1/2014 13:59	181	PAINT	19.9	Positive	1	0.1
12/1/2014 14:00	182	PAINT	6.37	Negative	0.9	0.1
12/1/2014 14:01	183	PAINT	17.38	Positive	1.1	0.1
12/1/2014 14:02	184	PAINT	2.97	Negative	0.01	0.04
12/1/2014 14:02	185	PAINT	3.39	Negative	0.17	0.13
12/1/2014 14:03	186	PAINT	3.39	Negative	0.01	0.02
12/1/2014 14:04	187	PAINT	2.55	Negative	0.04	0.14
12/1/2014 14:04	188	PAINT	2.55	Negative	0.04	0.14
12/1/2014 14:05	189	PAINT	1.28	Negative	0.05	0.13
12/1/2014 14:06	190	PAINT	5.94	Negative	0.09	0.1
12/1/2014 14:06	191	PAINT	1.27	Negative	0	0.02
12/1/2014 14:08	192	PAINT	2.97	Negative	0.01	0.03
12/1/2014 14:08	193	PAINT	2.97	Negative	0.01	0.05
12/1/2014 14:10	194	PAINT	3.38	Negative	0.08	0.12
12/1/2014 14:13	195	PAINT	1.26	Positive	2.7	1.5
12/1/2014 14:17	196	PAINT	1.27	Negative	0	0.02



TABLE 2
XRF DIRECT READING RESULTS
EMERGENCY OPERATIONS CENTER
AND COAST GUARD STATION
420 PELHAM AVENUE
BEACH HAVEN, NEW JERSEY 08008

Date/Time	Reading	Mode	Duration	Results	PbC	PbC Error
12/1/2014 14:17	197	PAINT	2.11	Null	0.01	0.03
12/1/2014 14:17	198	PAINT	2.11	Negative	0.02	0.07
12/1/2014 14:20	199	PAINT	2.11	Negative	0	0.02
12/1/2014 14:23	200	PAINT	1.27	Negative	0	0.02
12/1/2014 14:23	201	PAINT	1.26	Negative	0	0.02
12/1/2014 14:26	202	PAINT	2.11	Negative	0	0.02
12/1/2014 14:27	203	PAINT	1.71	Negative	0	0.02
12/1/2014 14:30	204	PAINT	2.11	Negative	0	0.02
12/1/2014 14:30	205	PAINT	2.11	Negative	0	0.02
12/1/2014 14:31	206	PAINT	1.69	Negative	0	0.02
12/1/2014 14:31	207	PAINT	1.27	Negative	0	0.02
12/1/2014 14:32	208	PAINT	1.27	Negative	0	0.02
12/1/2014 14:32	209	PAINT	1.28	Negative	0	0.02
12/1/2014 14:38	210	PAINT	1.27	Negative	0	0.02
12/1/2014 14:39	211	PAINT	1.27	Negative	0	0.02
12/1/2014 14:40	212	PAINT	3.39	Negative	0	0.02
12/1/2014 14:48	213	PAINT	2.53	Negative	0	0.02
12/1/2014 14:57	214	PAINT	1.27	Negative	0	0.03
12/1/2014 14:58	215	PAINT	1.27	Negative	0.01	0.04
12/1/2014 15:01	216	PAINT	2.98	Negative	0	0.02
12/1/2014 15:01	217	PAINT	1.27	Negative	0	0.02
12/1/2014 15:02	218	PAINT	1.27	Negative	0	0.02
12/1/2014 15:03	219	PAINT	1.7	Negative	0	0.02
12/1/2014 15:04	220	PAINT	1.7	Negative	0	0.02
12/1/2014 15:04	221	PAINT	1.28	Negative	0	0.02
12/1/2014 15:04	222	PAINT	3.4	Negative	0	0.02
12/1/2014 15:05	223	PAINT	1.28	Negative	0.01	0.06
12/1/2014 15:07	224	PAINT	1.27	Negative	0	0.02
12/1/2014 15:09	225	PAINT	1.69	Negative	0	0.02
12/1/2014 15:10	226	PAINT	1.27	Negative	0	0.02
12/1/2014 15:12	227	PAINT	1.27	Negative	0	0.02
12/1/2014 15:12	228	PAINT	1.27	Negative	0	0.03
12/1/2014 15:13	229	PAINT	1.27	Negative	0	0.02
12/1/2014 15:13	230	PAINT	1.27	Negative	0	0.02
12/1/2014 15:14	231	PAINT	1.68	Negative	0.01	0.03
12/1/2014 15:16	232	PAINT	1.71	Negative	0	0.02
12/1/2014 15:18	233	PAINT	8.49	Positive	1.1	0.1
12/1/2014 15:18	234	PAINT	8.88	Positive	1.1	0.1
12/1/2014 15:18	235	PAINT	8.91	Positive	1.1	0.1
12/1/2014 18:13	236	PAINT	82.59		4.34	0



TABLE 2
XRF DIRECT READING RESULTS
EMERGENCY OPERATIONS CENTER
AND COAST GUARD STATION
420 PELHAM AVENUE
BEACH HAVEN, NEW JERSEY 08008

Date/Time	Reading	Mode	Duration	Results	PbC	PbC Error
12/1/2014 18:16	237	PAINT	18.22	Null	1	0.1
12/1/2014 18:17	238	PAINT	19.9	Positive	1	0.1
12/1/2014 18:17	239	PAINT	9.78	Positive	1.1	0.1
12/1/2014 18:18	240	PAINT	19.93	Positive	1	0.1
12/1/2014 18:23	241	PAINT	2.11	Negative	0	0.02
12/1/2014 18:23	242	PAINT	2.11	Negative	0	0.02
12/1/2014 18:30	243	PAINT	3.39	Negative	0	0.02
12/1/2014 18:32	244	PAINT	2.54	Negative	0	0.02
12/1/2014 18:33	245	PAINT	2.97	Negative	0.03	0.09
12/1/2014 18:34	246	PAINT	3.39	Negative	0.01	0.02
12/1/2014 18:35	247	PAINT	3.37	Negative	0	0.02
12/1/2014 18:37	248	PAINT	1.27	Negative	0	0.02
12/1/2014 18:37	249	PAINT	1.27	Positive	4.8	3.8
12/1/2014 18:38	250	PAINT	1.69	Null	0.01	0.03
12/1/2014 18:39	251	PAINT	0.84	Positive	9.2	8
12/1/2014 18:40	252	PAINT	2.53	Negative	0	0.02
12/1/2014 18:50	253	PAINT	2.54	Negative	0	0.02
12/1/2014 18:52	254	PAINT	2.12	Negative	0.7	0.3
12/1/2014 18:54	255	PAINT	1.27	Negative	0	0.02
12/1/2014 18:58	256	PAINT	1.27	Negative	0	0.02
12/1/2014 19:00	257	PAINT	1.26	Negative	0.01	0.03
12/1/2014 19:01	258	PAINT	1.27	Negative	0.01	0.04
12/1/2014 19:03	259	PAINT	1.28	Negative	0.01	0.04
12/1/2014 19:04	260	PAINT	3.39	Negative	0	0.02
12/1/2014 19:07	261	PAINT	1.27	Negative	0.01	0.03
12/1/2014 19:12	262	PAINT	20	Positive	1	0.1
12/1/2014 19:13	263	PAINT	19.88	Positive	1	0.1
12/1/2014 19:13	264	PAINT	19.86	Positive	1	0.1
12/1/2014 19:13	265	PAINT	4.24	Positive	1.2	0.2



**PRE-REHABILITATION: LEAD-BASED PAINT RISK ASSESSMENT
EMERGENCY OPERATIONS CENTER AND COAST GUARD STATION
420 PELHAM AVENUE
BEACH HAVEN, NEW JERSEY 08008
DECEMBER 2014**

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**TABLE 3
Lead Dust Wipe Sample Results**



TABLE 3
LBP DUST WIPE SAMPLE TEST RESULTS
EMERGENCY OPERATIONS CENTER AND COAST GUARD STATION
420 PELHAM AVENUE
BEACH HAVEN, NEW JERSEY 08008

Sample ID	Date	Room	Location	Lead Dust Concentration indicative of Lead Hazard ($\mu\text{g}/\text{ft}^2$)	Wipe Sample Result ($\mu\text{g}/\text{ft}^2$)
W-1	12/1/2014	Exit 1	Floor	40	<10
W-2	12/1/2014	Municipal Court Hall	Floor	40	<10
W-3	12/1/2014	Room W106	Floor	40	170
W-4	12/1/2014	Exit 2	Floor	40	14
W-5	12/1/2014	Court Room	Floor	40	<10
W-6	12/1/2014	Kitchen	Floor	40	<10
W-7	12/1/2014	Exit 4	Floor	40	21
W-8	12/1/2014	Exit 3	Floor	40	<10
W-9	12/1/2014	Clerk's Office	Floor	40	<10
W-10	12/1/2014	Clerk's Hall	Floor	40	<10
W-11	12/1/2014	Conference Hall	Floor	40	<10
W-12	12/1/2014	Conference Room	Floor	40	<10
W-13	12/1/2014	Exit 5	Floor	40	<10
W-14	12/1/2014	Exit 6	Floor	40	<10
W-15	12/1/2014	Gym	Floor	40	<10
W-16	12/1/2014	EOC Office 1	Floor	40	<10
W-17	12/1/2014	QA/QC	Blank	N/A	<10

4400 = Exceeds lead dust concentration



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EMERGENCY OPERATIONS CENTER AND COAST GUARD STATION
420 PELHAM AVENUE
BEACH HAVEN, NEW JERSEY 08008
DECEMBER 2014**

PARS

APPENDIX A

Licenses

Lead Identification Permit

New Jersey Department of Health

CHRISTA M CASCIOLINI



Permit No.: 026992

ID No.: 026992

Expires: 9/17/2015

Authorization Signature: *Joseph D Eldridge*
Joseph D. Eldridge, M.P.H., Director

Inspector/Risk Assessor

38601

National Asbestos & Environmental Training Institute

CERTIFICATE OF COMPLETION

This is to certify that

Christa M. Casciolini

Successfully completed the course entitled

**5-Day New Jersey/EPA Model Lead Inspector/Risk Assessor Program on
August 5-9, 2013**

Examination Passed on August 9, 2013

Expiration Date on August 9, 2015


Doris L. Adler
President, NAETI

Language: English
3321 Doris Avenue, Building B, Ocean, NJ 07712

Phone (732) 531-5571

ABIH 5 CM POINTS
Fax (732) 531-5956

www.naeti.com



CHRIS CHRISTIE
Governor

KIM GUADAGNO
Lt. Governor

LOCATION
101 SOUTH BROAD STREET
TRENTON, NEW JERSEY 08618

STATE OF NEW JERSEY
DEPARTMENT OF COMMUNITY AFFAIRS
DIVISION OF CODES AND STANDARDS
BUREAU OF CODE SERVICES
LEAD HAZARD ABATEMENT

RICHARD E. CONSTABLE, III
Commissioner

MAILING ADDRESS
PO BOX 816
TRENTON, NJ 08625-0816

Certificate - Lead Evaluation Contractor

This is to certify that the Department of Community Affairs has

() CERTIFIED
(XX) RECERTIFIED

PARS ENVIRONMENTAL
500 HORIZON DRIVE
SUITE 540
ROBBINSVILLE, NJ 08691

To act as a Lead Evaluation Contractor on the following projects

Residential
Public Buildings

Cert # 00416 E

Effective Date: MARCH 1, 2014

Date of Expiration: FEBRUARY 29, 2016

Certificate Type: 2 YEAR

Sincerely,

James L. Amici
Supervisor of Certification
Lead Hazard Abatement Unit





PRE-REHABILITATION: LEAD-BASED PAINT RISK ASSESSMENT
EMERGENCY OPERATIONS CENTER AND COAST GUARD STATION
420 PELHAM AVENUE
BEACH HAVEN, NEW JERSEY 08008
DECEMBER 2014

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APPENDIX B
Performance Characteristic 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/cm ² (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*.



PRE-REHABILITATION: LEAD-BASED PAINT RISK ASSESSMENT
EMERGENCY OPERATIONS CENTER AND COAST GUARD STATION
420 PELHAM AVENUE
BEACH HAVEN, NEW JERSEY 08008
DECEMBER 2014

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APPENDIX C

Lead Glossary



“LEAD SPEAK” A BRIEF GLOSSARY

COMMON LBP TERMS

LBP: Any and all paint that contains at least 1 milligram of lead per square centimeter of surface area (1.0 mg/cm^2). This is infrequently expressed as 0.5% lead by weight and/or 5,000 parts per million lead concentrations by dry weight.

LBP HAZARDS: Housing conditions that cause human exposure to unsafe levels of lead from paint. These conditions include, but are not necessarily limited to: deteriorated LBP; friction, impact, or chewable surfaces; lead contaminated dust; or lead contaminated soil.

PAINT: Any and all paints, stains, varnishes, shellacs, epoxies, lacquers, polyurethanes, etc.

HOUSE WALL IDENTIFICATION GUIDE: The exterior wall that contains the front entry to the house is labeled as the A wall of the house. Proceeding clock-wise around the house label the remaining walls B, C, and D respectively. The interior room walls correspond to the exterior walls

LEAD HAZARD EVALUATION METHODS

VISUAL EVALUATION: A visual evaluation of interior and exterior paint and surfaces in an effort to try to identify specific conditions that contribute to LBP hazards. A certified risk assessor or a Housing Quality Standards inspector trained in visual assessments should perform these inspections.

PAINT TESTING: Testing of specific surfaces that are coated with paint, by XRF (x-ray fluorescence) or laboratory analysis, to determine the lead content of these surfaces, performed by a NJ certified Lead Inspector/Risk Assessor.

RISK ASSESSMENT: An on-site investigation to help determine the existence of LBP hazards. This can include paint testing, dust, and soil sampling, water sampling and a visual inspection. The risk assessment report identifies lead hazards and potential options for lead hazard control. A certified risk assessor must conduct the assessment.

CLEARANCE EXAMINATION: Clearance is performed after hazard reduction, rehabilitation, renovation, repair, modernization, or maintenance activities to determine if a unit is safe for occupancy. It involves a visual inspection, analysis of dust and soil samples, and preparation of a report. A certified risk assessor that is independent from the company or individual conducting the lead hazard control activities should conduct the clearance examination.

X-RAY FLUORESCENCE ANALYZER (XRF): This device, often called an XRF, is used to help identify levels of lead in paint without disturbing the painted surfaces themselves. The unit uses X-rays to measure the lead content in the paint on a per square centimeter basis.



“LEAD SPEAK” A BRIEF GLOSSARY

LEAD POISONING: Environmental Intervention Blood Lead Level (EIBLL): The level of lead in blood that requires intervention in a child under the age of seventy-two (72) months (6 years). This is typically defined as a blood lead level of 20 µg/dL (micrograms per deciliter) of whole blood or above for a single test, or blood levels of 15-19 in two tests taken at least three months apart.

KEY UNITS OF MEASUREMENT

µg (Microgram): A microgram is 1/1000th of a milligram. To put this into perspective, a penny weighs 2 grams. To get a microgram, you would need to divide the penny into 2 million pieces. A microgram is one of those two million pieces.

µg/dL (microgram per deciliter): Used to measure the level of lead in children's and worker's blood to establish whether intervention is needed. A deciliter is a little less than a half a cup.

µg/ft² (micrograms per square foot): the unit used to express levels of lead in dust samples. All reports should report levels of lead in dust in µg/ft², mg/cm² (milligrams per centimeter square): used to report levels of lead in paint thru XRF testing.

PPM (parts per million): Typically used to express the concentrations of lead in soil. Can also be used to express the amount of lead in a surface coating on a mass concentration basis. This measurement can also be shown as: µg/gram or mg/kg (soil) or mg/l (aqueous).

PPB (parts per billion): Typically used to express the amount of lead found in drinking water. This measurement is also sometimes expressed as: µg/l.

EPA/HUD PUBLISHED LBP STANDARDS**Dust-thresholds for Lead Contamination**

- Floors: less than (<) 40 µg/ft²
- Interior Window Sills: <250 µg/ft²
- Window Troughs: <400 µg/ft²

Soil-thresholds for Lead Contamination

- Play areas used by children 6 and under: <400 µg/gram or 400 PPM
- Other areas: <1200 µg/gram or 1200 PPM
- Threshold for abatement: <5000 µg/gram or 5000 PPM

**“LEAD SPEAK” A BRIEF GLOSSARY**

NATIONAL CENTER FOR HEALTHY HOUSING: <http://www.leadshousing.org/>

NATIONAL LEAD INFORMATION CENTER AND CLEARINGHOUSE:
1-800-424 LEAD, Fax: 301-585-7976 www.epa.gov/lead/nlic.htm

NATIONAL LEAD ASSESSMENT AND ABATEMENT COUNCIL:
1-800-590-6522 Fax: 301-924-0265 <http://www.nlaac.org>

HUD's OFFICE OF HEALTH HOMES AND LEAD HAZARD CONTROL:
<http://www.hud.gov/offices/lead>

THE ALLIANCE TO END CHILDHOOD LEAD POISONING:
<http://www.aeclp.org>

THE ENVIRONMENTAL PROTECTION AGENCY LEAD PROGRAMS:
<http://www.epa.gov/opptintr/lead> Voice: 1-202-260-2090

NEW JERSEY DEPARTMENT OF HEALTH, INDOOR ENVIRONMENTS PROGRAM
<http://www.state.nj.us/health/iep/lead.shtml>

ADDITIONAL INFORMATION:

Lists of recalled products containing lead: www.safetyalerts.com. The Lead listing for info On lead-safe service providers and EPA accredited laboratories throughout the United States: <http://www.leadlisting.org>



**PRE-REHABILITATION: LEAD-BASED PAINT RISK ASSESSMENT
EMERGENCY OPERATIONS CENTER AND COAST GUARD STATION
420 PELHAM AVENUE
BEACH HAVEN, NEW JERSEY 08008
DECEMBER 2014**

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**APPENDIX D
EMSL Laboratories Lead Report**



EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (856) 303-2500 / (856) 786-5974

<http://www.EMSL.com>

cinnaminsonleadlab@emsl.com

EMSL Order:	201417319
CustomerID:	PARS51
CustomerPO:	
ProjectID:	

Attn: **Margaret Halasnik**
PARS Environmental
500 Horizon Drive
Suite 540
Robbinsville, NJ 08691

Phone: (609) 890-7277
 Fax: (609) 890-9116
 Received: 12/02/14 9:00 AM
 Collected: 12/1/2014

Project: 14-0291 / EOC/CG Buld.

Test Report: Lead in Dust by Flame AAS (SW 846 3050B/7000B)*

Client Sample Description	Lab ID	Collected	Analyzed	Area Sampled	Lead Concentration
W-1 Site: Floor - Exit 1	201417319-0001	12/1/2014	12/2/2014	144 in ²	<10 µg/ft ²
W-2 Site: Floor - Municiple Court Hall	201417319-0002	12/1/2014	12/2/2014	144 in ²	<10 µg/ft ²
W-3 Site: Floor - Room W106	201417319-0003	12/1/2014	12/2/2014	144 in ²	170 µg/ft ²
W-4 Site: Floor - Exit 2	201417319-0004	12/1/2014	12/2/2014	144 in ²	14 µg/ft ²
W-5 Site: Floor - Court Room	201417319-0005	12/1/2014	12/2/2014	144 in ²	<10 µg/ft ²
W-6 Site: Floor - Kitchen	201417319-0006	12/1/2014	12/2/2014	144 in ²	<10 µg/ft ²
W-7 Site: Floor - Exit 4	201417319-0007	12/1/2014	12/2/2014	144 in ²	21 µg/ft ²
W-8 Site: Floor - Exit 3	201417319-0008	12/1/2014	12/2/2014	144 in ²	<10 µg/ft ²
W-9 Site: Floor - Clerk's Office	201417319-0009	12/1/2014	12/2/2014	144 in ²	<10 µg/ft ²
W-10 Site: Floor - Clerk's Hall	201417319-0010	12/1/2014	12/2/2014	144 in ²	<10 µg/ft ²
W-11 Site: Floor - Conference Hall	201417319-0011	12/1/2014	12/2/2014	144 in ²	<10 µg/ft ²
W-12 Site: Floor - Conference Room	201417319-0012	12/1/2014	12/2/2014	144 in ²	<10 µg/ft ²
W-13 Site: Floor - Exit 5	201417319-0013	12/1/2014	12/2/2014	144 in ²	<10 µg/ft ²
W-14 Site: Floor - Exit 6	201417319-0014	12/1/2014	12/2/2014	144 in ²	<10 µg/ft ²
W-15 Site: Floor - Gym	201417319-0015	12/1/2014	12/2/2014	144 in ²	<10 µg/ft ²

Julie Smith - Laboratory Director
 NJ-NELAP Accredited:03036
 or other approved signatory

*Analysis following Lead in Dust by EMSL SOP/ Determination of Environmental Lead by FLAA. Reporting limit is 10 ug/wipe. ug/wipe = ug/ft2 x area sampled in ft2. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities (such as volume sampled) or analytical method limitations. Samples received in good condition unless otherwise noted. The lab is not responsible for data reported in µg/ft² which is dependant on the area provided by non-lab personnel. The test results contained within this report meet the requirements of NELAC unless otherwise noted. "<" (less than) results signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NELAP Certifications: NJ 03036, NY 10872, PA 68-00367, AIHA-LAP, LLC ELLAP 100194, A2LA 2845.01

Initial report from 12/03/2014 10:24:17



EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (856) 303-2500 / (856) 786-5974

<http://www.EMSL.com>

cinnaminsonleadlab@emsl.com

EMSL Order:	201417319
CustomerID:	PARS51
CustomerPO:	
ProjectID:	

Attn: **Margaret Halasnik**
PARS Environmental
500 Horizon Drive
Suite 540
Robbinsville, NJ 08691

Phone: (609) 890-7277
 Fax: (609) 890-9116
 Received: 12/02/14 9:00 AM
 Collected: 12/1/2014

Project: 14-0291 / EOC/CG Buld.

Test Report: Lead in Dust by Flame AAS (SW 846 3050B/7000B)*

<i>Client Sample Description</i>	<i>Lab ID</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Area Sampled</i>	<i>Lead Concentration</i>
W-16	201417319-0016	12/1/2014	12/2/2014	144 in ²	<10 µg/ft ²
Site: Floor - EOC Office 1					
W-17	201417319-0017	12/1/2014	12/2/2014	144 in ²	<10 µg/ft ²
Site: QC					

Julie Smith - Laboratory Director
 NJ-NELAP Accredited:03036
 or other approved signatory

*Analysis following Lead in Dust by EMSL SOP/ Determination of Environmental Lead by FLAA. Reporting limit is 10 ug/wipe. ug/wipe = ug/ft2 x area sampled in ft2. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities (such as volume sampled) or analytical method limitations. Samples received in good condition unless otherwise noted. The lab is not responsible for data reported in µg/ft² which is dependant on the area provided by non-lab personnel. The test results contained within this report meet the requirements of NELAC unless otherwise noted. "<" (less than) results signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NELAP Certifications: NJ 03036, NY 10872, PA 68-00367, AIHA-LAP, LLC ELLAP 100194, A2LA 2845.01

Initial report from 12/03/2014 10:24:17



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

Lead (Pb) Chain of Custody

EMSL Order ID (Lab Use Only):

201417319

EMSL Analytical, Inc.
200 Route 130 North

Cinnaminson, NJ 08077
PHONE: 1-800-220-3675
FAX: (856) 786-5974

Company: PARS Environmental		EMSL-Bill to: <input checked="" type="checkbox"/> Different <input type="checkbox"/> Same	
Street: 500 Horizon Drive Suite 540		If Bill to is Different note instructions in Comments**	
City: Robbinsville	State/Province: NJ	Zip/Postal Code: 08691	Country: United States
Report To (Name): Margaret Halasnik		Telephone #: 609-890-7277	
Email Address: MHalasnik@parsenviro.com		Fax #: 609-890-9116	Purchase Order:
Project Name/Number: 14-0291	Please Provide Results: <input type="checkbox"/> FAX <input checked="" type="checkbox"/> E-mail <input type="checkbox"/> Mail		
U.S. State Samples Taken: NJ	CT Samples: <input type="checkbox"/> Commercial/Taxable <input type="checkbox"/> Residential/Tax Exempt		

Turnaround Time (TAT) Options* - Please Check

3 Hour
 6 Hour
 24 Hour
 48 Hour
 72 Hour
 96 Hour
 1 Week
 2 Week

*Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide

Matrix	Method	Instrument	Reporting Limit	Check
Chips <input type="checkbox"/> % by wt. <input type="checkbox"/> mg/cm ² <input type="checkbox"/> ppm	SW846-7000B	Flame Atomic Absorption	0.01%	<input type="checkbox"/>
Air	NIOSH 7082	Flame Atomic Absorption	4 µg/filter	<input type="checkbox"/>
	NIOSH 7105	Graphite Furnace AA	0.03 µg/filter	<input type="checkbox"/>
	NIOSH 7300 modified	ICP-AES/ICP-MS	0.5 µg/filter	<input type="checkbox"/>
Wipe* <input type="checkbox"/> ASTM non ASTM <input checked="" type="checkbox"/> *if no box is checked, non-ASTM Wipe is assumed	SW846-7000B	Flame Atomic Absorption	10 µg/wipe	<input checked="" type="checkbox"/>
	SW846-6010B or C	ICP-AES	1.0 µg/wipe	<input type="checkbox"/>
	SW846-7000B/7010	Graphite Furnace AA	0.075 µg/wipe	<input type="checkbox"/>
TCLP	SW846-1311/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	SW846-1131/SW846-6010B or C	ICP-AES	0.1 mg/L (ppm)	<input type="checkbox"/>
Soil	SW846-7000B	Flame Atomic Absorption	40 mg/kg (ppm)	<input type="checkbox"/>
	SW846-7010	Graphite Furnace AA	0.3 mg/kg (ppm)	<input type="checkbox"/>
	SW846-6010B or C	ICP-AES	2 mg/kg (ppm)	<input type="checkbox"/>
Wastewater Unpreserved <input type="checkbox"/> Preserved with HNO ₃ pH < 2 <input type="checkbox"/>	SM3111B/SW846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.7	ICP-AES	0.020 mg/L (ppm)	<input type="checkbox"/>
Drinking Water Unpreserved <input type="checkbox"/> Preserved with HNO ₃ pH < 2 <input type="checkbox"/>	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.8	ICP-MS	0.001 mg/L (ppm)	<input type="checkbox"/>
TSP/SPM Filter	40 CFR Part 50	ICP-AES	12 µg/filter	<input type="checkbox"/>
	40 CFR Part 50	Graphite Furnace AA	3.6 µg/filter	<input type="checkbox"/>
Other:				<input type="checkbox"/>

Name of Sampler: Christa Casciolini Signature of Sampler: [Signature]

Sample #	Location	Volume/Area	Date/Time Sampled

Client Sample #'s: -W1 to W-17 Total # of Samples: 17 AM

Relinquished (Client): Christa Calm Date: 12/1/14 Time:

Received (Lab): AM Drop Box Date: 12/1/14 Time: 9:35 pm

Comments: Bill To: PARS Environmental, 500 Horizon Drive, Suite 540, Robbinsville, NJ, 08691, United States
Attention: Margaret Halasnik Phone: 609-890-7277 Email: mhalasnik@parsenviro.com Purchase Order: 1101

EOC/CG Bld.



EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

LEAD (Pb) CHAIN OF CUSTODY
EMSL ORDER ID (Lab Use Only):

201417319

EMSL Analytical, Inc.
200 Route 130 North

Cinnaminson, NJ 08077
PHONE: 1-800-220-3675
FAX: (856) 786-5974

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Sample #	Location	Volume/Area	Date/Time Sampled
W-1	Floor - Exit 1	1' x 1'	12/1/14
W-2	Floor - Municipal Court Hall		
W-3	Floor - Room W106		
W-4	Floor - Exit 2		
W-5	Floor - Court Rm		
W-6	Floor - Kitchen		
W-7	Floor - Exit 4		
W-8	Floor - Exit 3		
W-9	Floor - Clerk's office		
W-10	Floor - Clerk's Hall		
W-11	Floor - Conference Hall		
W-12	Floor - Conference Rm		
W-13	Floor - Exit 5		
W-14	Floor - Exit 6		
W-15	Floor - Gym		
W-16	Floor - EOC office 1		
W-17	QC -		

Comments/Special Instructions:

Bill To: PARS Environmental, 500 Horizon Drive, Suite 540, Robbinsville, NJ, 08691, United States
Attention: Margaret Halasnik Phone: 609-890-7277 Email: mhalasnik@parsenviro.com Purchase Order: 1101



**PRE-REHABILITATION: LEAD-BASED PAINT RISK ASSESSMENT
EMERGENCY OPERATIONS CENTER AND COAST GUARD STATION
420 PELHAM AVENUE
BEACH HAVEN, NEW JERSEY 08008
DECEMBER 2014**

PARS

APPENDIX E

Photo Logs



EMERGENCY OPERATIONS CENTER AND COAST GUARD STATION
420 PELHAM AVENUE, BEACH HAVEN, NEW JERSEY 08008
LBP SAMPLING PHOTO LOG

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Photo 1: Site Building



Photo 2: Four (4) LBP Door Lintels on Municipal Court Section



Photo 3: LBP Pipe Insulation



Photo 4: Room W106 – Lead Dust Hazard Location



Photo 5: Representative Exterior Column at Municipal Court Section



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EMERGENCY OPERATIONS CENTER AND COAST GUARD STATION
420 PELHAM AVENUE
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DECEMBER 2014**

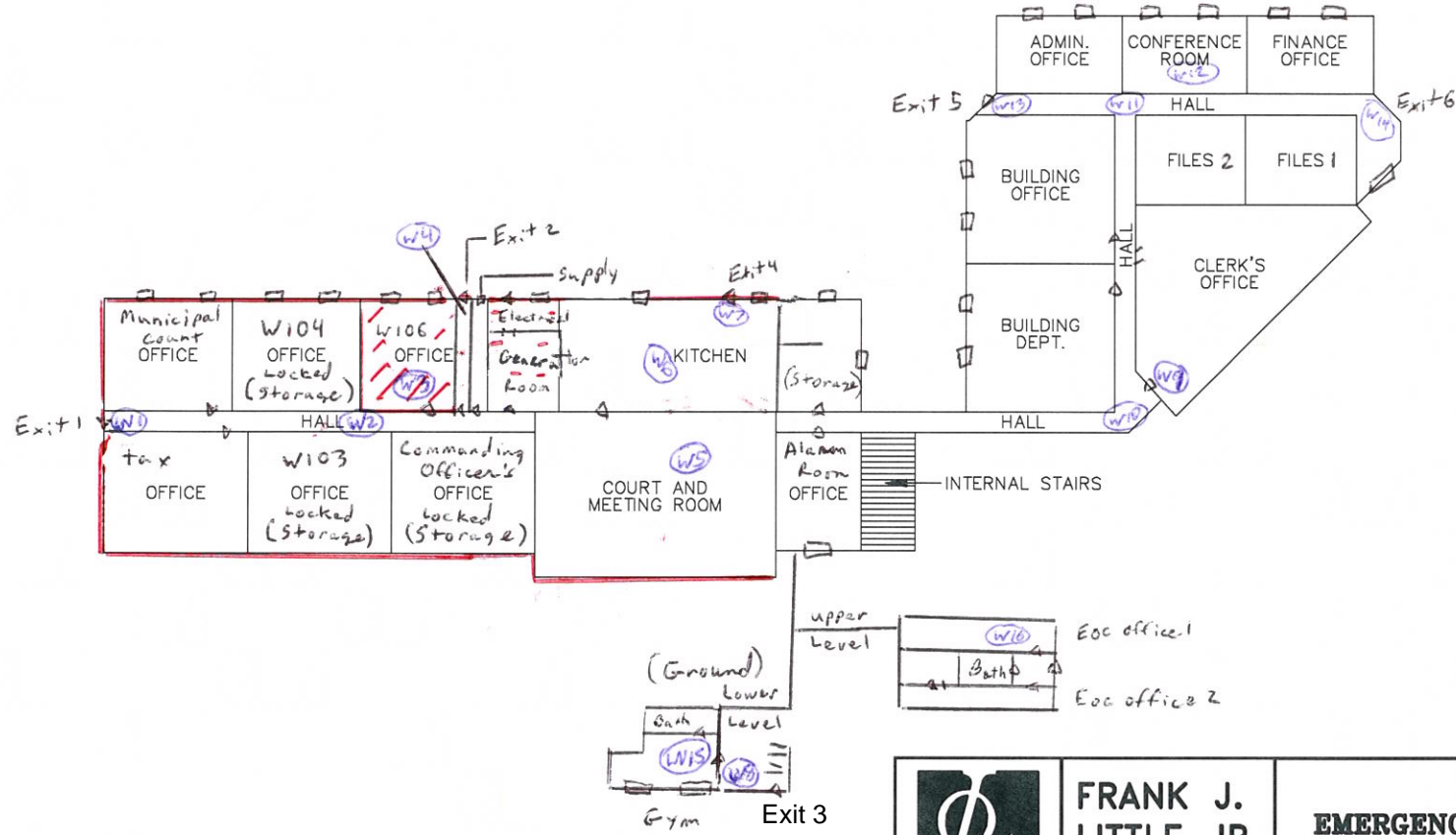
PARS

APPENDIX F

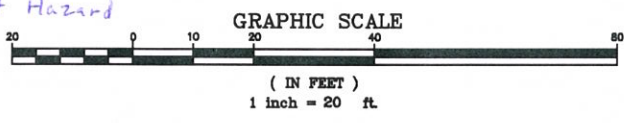
Lead Dust Wipe Sample Locations



Pelham Avenue



- WF LAP Wipe Locations
- LAP on Door Lintels & Columns & pipe insulation (Elbows & tees)
- LAP Dust Hazard





FRANK J. LITTLE JR.
P.E., P.P.

OWEN, LITTLE & ASSOCIATES, INC.
INC.
Authorization No. 24GA27966700
Engineers, Planners, Surveyors
GIS Specialists

443 Atlantic City Blvd.
Beachwood, NJ 08722
Tel. 732-244-1080
Fax 732-341-3412

**EMERGENCY OPERATIONS CENTER
AND COAST GUARD STATION
FIRST FLOOR LAYOUT**

BOROUGH OF BEACH HAVEN
OCEAN COUNTY NEW JERSEY

SCALE:	DATE:	CHK'D	DRWN	JOB & BILLING No.	DRWG No.
1"=20'	07/15/14	FJL	CMB	BH4GNL	1 / 1





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EMERGENCY OPERATIONS CENTER AND COAST GUARD STATION
420 PELHAM AVENUE
BEACH HAVEN, NEW JERSEY 08008
DECEMBER 2014**

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APPENDIX G

OSHA Lead In Construction Standard-Summary



**PRE-REHABILITATION: LEAD-BASED PAINT RISK ASSESSMENT
EMERGENCY OPERATIONS CENTER AND COAST GUARD STATION
420 PELHAM AVENUE
BEACH HAVEN, NEW JERSEY 08008
DECEMBER 2014**

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OSHA Lead in Construction Standard Summary

As outlined in the preamble to the U.S. Department of Labor OSHA Construction Standard for Lead (29 CFR 1926.62 Lead), the lead in construction standard is applicable to all occupational exposure to lead in all construction work in which lead **in any amount** is present in an occupationally related context.

Based on the detected levels of lead in paint, the OSHA Construction Standard for Lead (29 CFR 1926.62 Lead) is applicable to all construction work at this site since employees may be occupationally exposed to lead.

OSHA has included within the regulatory text three lists of tasks, the performance of which in the presence of lead, trigger basic protective provisions prior to air lead monitoring:

Task-related Trigger-1

The OSHA regulation, section (d), part (2) “protection of employees during assessment of exposure,” states that where lead containing coatings or paint is present and the affected components are to be demolished, manually scraped, manually sanded, treated with heat gun application and/or power tool cleaned with a dust collection system, that until the employer performs an employee exposure assessment and documents that the employee(s) performing the demolition/renovation is not exposed to lead in excess of 500 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$), which is 10 times the Personal Exposure Limit (PEL), the employer shall treat the employee as if the employee were exposed to lead above the PEL, and not in excess of ten (10) times the PEL, and shall implement employee protective measures.

Task-related Trigger-2

The OSHA regulation, section (d), part (2) “protection of employees during assessment of exposure,” states that where lead containing coatings or paint is present and the affected components are to be rivet busted, power tool cleaned without dust collection systems, cleanup activities where dry expendable abrasives are used, abrasive blasting enclosure movement or removal or using lead containing mortar (lead burning), that until the employer performs an employee exposure assessment and documents that the employee(s) performing the listed tasks is not exposed to lead in excess of 50 $\mu\text{g}/\text{m}^3$, the employer shall treat the employee as if the employee were exposed to lead in excess of 50 $\mu\text{g}/\text{m}^3$ and shall implement employee protective measures as outlined within the regulation. Where the employer does establish that the employee is exposed to levels of lead below 50 $\mu\text{g}/\text{m}^3$, the employer may provide the exposed employee with the appropriate respirator prescribed for use at such lower exposures, in accordance with the regulation.



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Task-related Trigger-3

The OSHA regulation, section (d), part (2) “protection of employees during assessment of exposure,” states that where lead containing coatings or paint is present and the affected components are to be abrasive blasted, welded, cut or torched, that until the employer performs an employee exposure assessment and documents that the employee(s) performing the listed tasks is not exposed to lead in excess of 2,500 $\mu\text{g}/\text{m}^3$ (50 X PEL), the employer shall treat the employee as if the employee were exposed to lead in excess of 2,500 $\mu\text{g}/\text{m}^3$ and shall implement employee protective measures as outlined within the regulation. Where the employer does establish that the employee is exposed to levels of lead below 2,500 $\mu\text{g}/\text{m}^3$, the employer may provide the exposed employee with the appropriate respirator prescribed for use at such lower exposures, in accordance with the regulation.

Until the employer performs an employee exposure assessment and determines actual employee exposure, the employer shall provide the employee(s) with interim protection as follows:

- a) Appropriate respiratory protection
- b) Appropriate personal protective clothing
- c) Change areas
- d) Hand washing facilities
- e) Biological Monitoring
- f) Respiratory, Safety and Hazard Communication Training

Where the employer has previously monitored for lead exposures, and the data was obtained within the past 12 months during work operations conducted under workplace conditions closely resembling the process, type of material, control methods, work practices, and environmental conditions used and prevailing in the employee's current operations, the employer may rely on such earlier monitoring results to satisfy the requirements of the regulation if the sampling and analytical methods meet the accuracy and confidence levels of the regulation.

The employer of construction workers is responsible for the development and implementation of a worker protection program in accordance with 29 CFR 1926.20 and 29 CFR 1926.62 (e). To implement the worker protection program properly, the employer needs to designate a competent person, i.e., one who is capable of identifying existing and predictable hazards or working conditions which are hazardous or dangerous to employees, in accordance with the general safety and health provisions of OSHA's construction standards.

At the minimum, the following elements should be included in the employer's worker protection program for employees exposed to lead:



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DECEMBER 2014**

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- * Hazard determination, including exposure assessment
- * Engineering and work practice controls
- * Respiratory protection
- * Protective clothing and equipment
- * Housekeeping
- * Hygiene facilities and practices
- * Medical surveillance and provisions for medical removal
- * Training
- * Signs; and
- * Recordkeeping

It is OSHA policy that respirators are not to be used in lieu of engineering and work practices to reduce employee exposures to below the PEL. Respirators can only be used in combination with engineering controls and work practices to control employee exposures.

This report is for planning purposes only. This report should not be used as the sole document for lead related activities.