#140274F

Final

Asbestos Survey Update Report

C.R. Layton U.S. Army Reserve Center (FL005)
1125 Northeast 8th Avenue
Gainesville, Florida

Contract No. W912QR-12-D-0027
Delivery Order Number 0002

Prepared for:

U.S. Army Corps of Engineers
Louisville District

Prepared by:

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And

psi Information To Build On
Engineering • Consulting • Testing
Professional Service Industries, Inc.
1748 33rd Street
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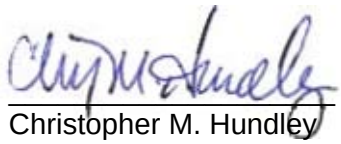
June 2013

STATEMENT OF INDEPENDENT TECHNICAL REVIEW

PSI has completed the Final Asbestos Survey Update Report for the C.R. Layton U.S. Army Reserve Center (FL005), Gainesville, Florida.

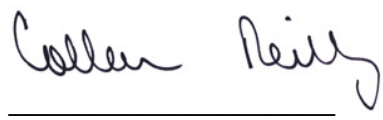
Notice is hereby given that an independent technical review has been conducted that is appropriate to the level of risk and complexity inherent in the project. During the independent technical review, compliance with established policy principles and procedures, utilizing justified and valid assumptions, was verified. This included review of data quality objectives; technical assumptions; methods, procedures, and materials to be used; the appropriateness of data used and level of data obtained; and reasonableness of the results, including whether the product meets the customer's needs consistent with law and existing U.S. Army Corps policy.

Significant concerns and explanation of the resolutions are documented within the project file. As noted above, all concerns resulting from independent technical review of the project have been considered.



Date: June 13, 2013

Christopher M. Hundley
Principal Consultant
PSI



Date: June 13, 2013

Colleen Reilly
Independent Technical Review Team Leader
CH2M HILL

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1 EXECUTIVE SUMMARY

Professional Service Industries, Inc. (PSI) was retained by TerranearPMC, LLC to conduct an asbestos survey update for asbestos-containing material (ACM) at the C.R. Layton U.S. Army Reserve Center (USARC) (FL005), located at 1125 Northeast 8th Avenue in Gainesville, Florida, 32601. This survey is an update of a previous survey conducted at the site on November 1992, for ACM by Pickering Environmental Consultants (Pickering). PSI's field inspection for the asbestos survey update was conducted on February 26, 2013.

The subject property is developed with an approximate 35,625 square-foot (SF), two-story steel and concrete masonry structure situated on a concrete slab-on-grade foundation. The original structure was reportedly constructed in approximately 1953 and was later extended to the south and east at an unknown date. The structure formerly served as the USARC administrative and training facility, and contains a large drill hall surrounded by smaller rooms such as offices, classrooms, storage rooms, kitchen, mechanical room, and restrooms. The basement contained the former firing range. The roof system on the structure is comprised of a flat built-up modified bitumen roof that exhibited numerous patches. The facility has been unoccupied since approximately 2011 and is proposed to be disposed of outside of the federal government.

The purpose of the survey is to provide updated information regarding the presence, condition, and estimated quantity of previously identified (either confirmed or assumed) ACMs located at the facility. In accordance with the project's scope of work, no samples were collected by PSI during this survey update.

Please note that PSI utilized the room numbers reflected in the 1992 survey and report; however, actual room numbers are stenciled on the door frames and are exhibited in parenthesis on the attached figures.

The following ACMs (greater than one percent [>1%] asbestos) were identified during the prior survey and were still present during this survey update:

- 12-inch by 12-inch green floor tile and associated mastic located in rooms 113, 214A, and computer closet within room 215A.
- 9-inch by 9-inch black floor tile and associated mastic located in stairwell 118 and lobby 117. PSI noted that the materials that were previously identified in the firing range have been removed. PSI also noted that the materials that were previously identified in rooms 120 and 121 are either covered or have been replaced by 12-inch by 12-inch light brown floor tile.
- 9-inch by 9-inch brown floor tile and associated mastic located in various rooms and offices throughout the facility. The material was observed in rooms 202, 203, 215, 216, and 218. PSI noted that the materials that were previously identified are covered by carpeting in rooms 101 and 102. PSI noted that the materials that were previously identified have been removed from room 217.

- Mastic underneath both 12-inch by 12-inch tan floor tile and 12-inch by 12-inch light brown floor tile located in rooms 100A, 101A, 102A, 103A, 112, 124, 131, 207, 208, 209, 210, 211, 212, 219A.
- A 1-inch woven gasket adhered to the seal of the arms vault door located in room 106A.
- Roof flashing material located along the perimeter of the building.
- Pipe insulation located throughout the first floor of the original building. PSI noted this material was removed throughout the open training area with the exception of two vertical risers outside room 210.
- Pipe fitting insulation located throughout the first floor of the original building and in the boiler room.
- Pipe insulation jacket and mastic located in room 201.

No suspect ACMs were assumed to be ACM during the previous survey.

The following suspect ACMs were not identified in the prior survey, but were observed by PSI during this survey update, and are assumed to be ACM until tested:

- Replacement 12-inch by 12-inch light brown floor tile located in rooms 120 and 121. Note that the floor tile appears to be homogenous with the non-ACM floor tile located in rooms 122, 123, 125, and 126; however, this material is suspected to have been installed at a later date, following the 1992 survey.
- Concrete block
- Concrete block mortar
- Carpet mastic
- Brick
- Brick mortar
- Ceramic tile mastic
- Ceramic tile grout
- Stair tread with mastic

The previously confirmed ACMs verified by PSI during the survey update were observed to be in good to fair condition at the time of the survey update field inspection, with the exception of the following, which were observed to be damaged.

- Approximately 1 percent total of the ACM pipe insulation has been damaged in rooms 101, 102, 110, and the firing range 124. PSI recommends repairing the damaged pipe insulation. ACM's should be maintained in a good, non-damaged condition through use of an Operations and Maintenance (O&M) program. Regulated ACM (RACM) must be properly removed by a licensed asbestos abatement contractor prior to renovations or demolition that would disturb the

material. Federal, State, and Local regulations and guidelines should be strictly adhered to when removing the ACM.

In many areas, U.S. Environmental Protection Agency (USEPA) Category I & II non-friable ACMs in good condition do not need to be removed prior to demolition. However, if demolition practices will cause the materials to be cut, sanded, ground, or abraded, or otherwise made friable, they should be treated as RACM and removed prior to demolition. If non-friable ACMs are not removed prior to demolition, the generated debris cannot be recycled or used as clean-fill.

In addition, prior to any future maintenance, renovation, or demolition activities, any assumed ACMs should be tested, and any areas noted as inaccessible during this project, or any concealed areas, such as behind walls, where suspect ACMs are discovered, will require a survey for ACM.

2 INTRODUCTION

2.1 SCOPE OF SERVICES

PSI was retained by TerranearPMC, LLC to conduct an asbestos survey update for the U.S. Army Corps of Engineers (USACE) Louisville District and the 81st U.S. Army Reserve (USAR) Regional Support Command (81st RSC) at the C.R. Layton USARC (FL005). The USARC is located at 1125 Northeast 8th Avenue in Gainesville, Florida, 32601 and is comprised of one structure.

The scope of services for this project consisted of conducting an update of a prior asbestos survey, including inspection, current condition assessment, and quantification of accessible previously identified (either confirmed or assumed) suspect ACM from interior and exterior components of all structures at the facility. No sampling or analysis was conducted within the scope of this survey update.

The survey update was conducted in accordance with the *Final Work Plan Environmental Property Disposal Documentation for the 81, 88, 99 RSCs and PR Non-BRAC Sites* (Work Plan) (TerranearPMC 2013) and included:

- Review of client-provided records or documents
- Interviews with available building management/maintenance personnel as identified by the 81st RSC
- Visual inspection of the subject area(s)
- Quantification of ACMs
- Assessment of the physical condition of ACMs and exposure potential
- Report preparation and review.

2.2 PURPOSE

The purpose of this survey was to update the facility's existing asbestos survey, in accordance with the U.S. Army's Installation Asbestos Management Program (Public Works Technical Bulletin 420-70-8) (U.S. Army 1998), which requires that a periodic inspection for ACM be performed every 12 months.

2.3 AUTHORIZATION

Authorization to perform this work was given on January 14, 2013 by Theresa C. Doyle, Vice President of TerranearPMC, LLC. The project was conducted in accordance with the scope, terms, and conditions of PSI Proposal No. 0888-78086, dated September 7, 2012, and the Subcontracting Services Agreement between TerranearPMC, LLC and PSI, Agreement No. PSI46142, revised December 26, 2012, and under TerranearPMC, LLC's prime contract with the USACE (Contract Number W912QR-12-D-0027, Delivery Order Number 0002).

2.4 LIMITATIONS

This asbestos survey was not intended to meet the requirements of the USEPA National Emissions Standards for Hazardous Air Pollutants (NESHAP) for asbestos demolition or renovation. The survey included a thorough visual inspection of accessible areas of the facility that were previously surveyed for ACMs. In accordance with the project scope of work, no samples were collected during this survey update.

Due to the potential future occupancy of the facility, and the scope of the assessment, PSI did not conduct destructive investigation, such as behind finished surfaces (plaster/drywall walls, above hard ceilings, etc.), inside mechanical chases, behind mirrored walls, under carpet or tiled floors, inside wall cavities, above plaster ceilings, etc.; therefore, the inspection was limited to areas that were accessible and exposed.

Roof systems were included in the scope of this survey as a visual assessment only.

PSI also did not inspect any system which presented a hazard to the inspection team, such as energized electrical systems or within confined spaces.

2.5 WARRANTY

PSI warrants that the findings contained herein have been prepared in general accordance with accepted professional practices at the time of its preparation as applied by professionals in the community, and meets the quality objectives of the scope of this survey. Changes in the state-of-the-art or in applicable regulations cannot be anticipated and have not been addressed in this report.

The survey methods have been used to provide USACE and the 81st RSC with information regarding the presence of accessible and/or exposed suspect ACM existing at the time of the inspection. There is a distinct possibility that conditions may exist that could not be identified within the scope of the study or that were not apparent during the field inspection. This inspection covered only those areas that were exposed and/or physically accessible to the inspector. The study is also limited to the information available from USACE and 81st RSC at the time it was conducted.

No other warrantees are implied or expressed.

3 GENERAL BUILDING AND SURVEY INFORMATION

3.1 BUILDING INFORMATION

Subject Property	C.R. Layton USARC (FL005) 1125 NE 8th Avenue Gainesville, FL 32601
Facility Construction Date	Approximately 1953
Previous Renovation Dates	Addition date unknown
Number of Buildings	1
Number of Floors	Two-story structure situated on a concrete slab-on-grade foundation
Estimated Square Footage	Approximately 35,625 SF, inclusive of addition
Construction Type	Concrete masonry unit (CMU) construction with flat modified bitumous roof levels
Building Occupant(s)	Unoccupied since approximately 2011
Additional Information	Prior ACM survey report was provided and is discussed further throughout this report

3.2 INSPECTION INFORMATION

Name of PSI Inspector(s)	Mr. John Clary Certification No. 156164
Date of Inspection	February 26, 2013
Escort	Mr. Nicholas Ivey, Alpha Facilities Solutions

4 METHODOLOGY

The Inspection procedures were performed in general accordance with the guidelines published by the USEPA and in accordance with the Work Plan. The inspection and survey described below were performed by a USEPA accredited and State of Florida inspector. A copy of the inspector's certification is included in Appendix D.

4.1 RECORD DOCUMENT REVIEW & INTERVIEWS

4.1.1 RECORD DOCUMENT REVIEWS

Prior to conducting the visual inspection, PSI reviewed the following documents provided by the 81st RSC:

- *An untitled asbestos report for an asbestos survey conducted by Pickering Environmental not dated (attached lab reports indicate sample collection date of October 22, 1992).*

This data was used to focus the walk through and scope of work to be followed over the course of our visual inspection and sampling. Where prior sampling was conducted, this information was incorporated into PSI's survey. Information obtained from the references is included in the findings section of the report. A copy of the prior asbestos survey document is included in Appendix C.

The prior asbestos survey report prepared by Pickering Environmental reported that 69 samples were collected, in which 39 samples were identified as asbestos-containing (Pickering 1992). No materials in the building were presumed to contain asbestos in the prior report. The findings of this report are summarized in Tables 1 and 2 of this report.

PSI's review of the data from the previous report indicated that the data generally appeared reliable. The following discrepancies or deficiencies were noted between the prior report and PSI's February 26, 2013 field inspection:

- PSI observed suspect 12-inch by 12-inch light brown floor tile (located in rooms 120 and 121), concrete block and mortar (throughout facility), carpet mastic (rooms 101 and 102), brick and brick mortar (throughout facility), ceramic tile mastic and ceramic tile grout (bathrooms and locker rooms), and stair tread with mastic (northeast and southwest stairwells) that were not previously identified by Pickering; therefore, they are assumed to be ACM.
- The 9-inch by 9-inch black floor tiles and associated mastic that were present in the rifle range have been removed.
- The 9-inch by 9-inch black floor tiles in rooms 120 and 121 are either covered or replaced by 12-inch by 12-inch light brown floor tile.
- The 12-inch by 12-inch green floor tile previously identified by Pickering was observed by PSI to also be present in the computer closet within room 215A.

- The 9-inch by 9-inch brown floor tiles and associated black mastic present in rooms 101 and 102 are beneath carpeting.
- The pipe insulation present in the open training area has been removed, with the exception of two vertical risers outside room 210.

4.1.2 INTERVIEWS

The following site personnel familiar with the site's history were interviewed as part of this survey:

- Mr. Nicholas Ivey with Alpha Facilities on February 26, 2013.

Mr. Ivey had no direct knowledge regarding removal and/or replacement of the roof or other previously identified ACM since 1992. No additional interview information was provided regarding the history and use of the site; knowledge regarding any building renovation; or, expansion and removal of ACMs beyond what was obtained from our review of the provided prior reports.

4.2 VISUAL INSPECTION PROCEDURES

During the February 26, 2013 field inspection, an initial individual building structure walk through was conducted to determine the presence of suspect ACMs that were accessible and/or exposed.

As defined by USEPA, suspect materials which were similar in color, texture, general appearance and which appear to have been installed at the same time are considered "homogeneous materials" and were grouped in Homogeneous Sampling Areas. During the initial walk through, the approximate locations of suspect homogeneous materials were noted. Representative photographs were taken of each homogeneous material found to be present during the survey update field inspection that was confirmed to be ACM during the previous ACM survey. These photographs are included in Appendix B. The photograph of the jacketed pipe insulation did not develop properly and are subsequently not included.

The inspection was limited to those areas and materials that were accessible and did not involve destruction of walls, other building elements, physical barriers, or the structural integrity of the item being tested. Spaces not intended for human occupation under normal building operations and that would require a confined entry permit were not accessed.

Destructive investigation, such as behind finished surfaces (plaster/drywall walls, above hard ceilings, etc.); inside mechanical chases, behind mirrored walls, under carpet or tiled floors, etc., was generally not conducted to try to assess inaccessible or concealed materials. Although PSI made an attempt to identify all areas of ACM, an exhaustive investigation of void spaces was not included in the scope of services for this project. There may exist conditions which were unable to be identified within the scope of this survey.

The inspector evaluated the overall condition of each homogeneous material and determined whether the materials were friable or non-friable by touching the material, where practical. A friable material is defined as any material able to be crushed, crumbled, pulverized, or reduced to a powder by hand pressure when dry.

Each material was further assessed for overall condition. Conditions were rated as good, fair, or poor. PSI's inspector also identified the USEPA classification of the material: RACM, Category I non-friable ACM, and Category II non-friable ACM, based on the current condition of the material. In accordance with the Work Plan, the inspector estimated the quantities of the suspect materials, based only on materials that were accessible and exposed.

PSI's inspector also identified any other suspect ACMs that were not assessed in the provided previous asbestos survey report; however, per the scope of work for this survey update, no assessment of condition or estimated quantities were conducted of these materials.

4.3 ASBESTOS SAMPLING PROCEDURES

Per the project scope of work, samples were not collected by PSI.

4.4 ASBESTOS ANALYSIS PROCEDURES

Per the project scope of work, samples were not analyzed by PSI.

5 FINDINGS

5.1 ASBESTOS RESULTS

Both confirmed and assumed ACMs were identified at the C.R. Layton USARC (FL005) during the survey update field investigation.

Table 1 lists the ACMs that were previously sampled, along with the current observations of their location, condition, friability, USEPA NESHAP Category, and estimated quantities. This table lists only previously confirmed ACMs. Information and details of other suspect materials that were previously tested and determined to be non-ACM can be found in the prior survey report in Appendix C.

The following ACMs (>1% asbestos) were identified during the prior survey and were still present during this survey update:

- 12-inch by 12-inch green floor tile and associated mastic located in rooms 113, 214A, and computer closet within room 215A.
- 9-inch by 9-inch black floor tile and associated mastic located in stairwell 118 and lobby 117. PSI noted that the materials that were previously identified in the firing range have been removed. PSI also noted that the materials that were previously identified in rooms 120 and 121 are currently either covered or have been replaced by 12-inch by 12-inch light brown floor tile.
- 9-inch by 9-inch brown floor tile and associated mastic located in various rooms and offices throughout the facility. The material was observed in rooms 202, 203, 215, 216, and 218. PSI noted that the materials that were previously identified are covered by carpeting in rooms 101 and 102. PSI noted that the materials that were previously identified have been removed from room 217.
- Mastic underneath both 12-inch by 12-inch tan floor tile and 12-inch by 12-inch light brown floor tile located in rooms 100A, 101A, 102A, 103A, 112, 124, 131, 207, 208, 209, 210, 211, 212, 219A
- A 1-inch woven gasket adhered to the seal of the arms vault door located in room 106A.
- Roof flashing material located along the perimeter of the building.
- Pipe insulation located throughout the first floor of the original building. PSI noted the material was removed throughout the open training area, with the exception of two vertical risers outside room 210.
- Pipe fitting insulation located throughout the first floor of the original building and in the boiler room.
- Pipe insulation jacket and mastic located in room 201.

The following suspect ACMs were not identified in the prior survey, but were observed by PSI during this survey update, and are assumed to be ACM until tested. These are also listed in Table 2.

- Replacement 12-inch by 12-inch light brown floor tile located in rooms 120 and 121. Note that the floor tile appears to be homogenous with the non-ACM floor tile located in rooms 122, 123, 125, and 126; however, this material is suspected to have been installed at a later date, following the 1992 survey.
- Concrete block
- Concrete block mortar
- Carpet mastic
- Brick
- Brick mortar
- Ceramic tile mastic
- Ceramic tile grout
- Stair tread with mastic

The confirmed or assumed ACMs were observed to be in good to fair condition at the time of the survey update field inspection. Approximately 1 percent total of the ACM pipe insulation has been damaged in rooms 101, 102, 110, and the firing range.

The locations of confirmed and assumed ACM observed during PSI's February 26, 2013 field inspection are shown in the figures included in Appendix A. The figures reflect the changed conditions from the previous survey. A photographic log, showing the current condition of confirmed ACM identified in the previous survey report, is included in Appendix B.

5.1.1 INACCESSIBLE AREAS

The following areas were inaccessible during the survey and; therefore, were not inspected as part of this survey update:

- Behind walls and hard ceilings (destructive investigation not included in scope of this assessment).

5.1.2 NON-SUSPECT MATERIALS

The following materials were observed but are considered 'non-suspect' ACM due to their composition (fiberglass, rubber, etc.):

- Fiberglass pipe insulation runs in the boiler room.

5.1.3 QUANTIFICATION

Verification of identified and assumed ACM quantities was conducted using visual estimation by a PSI, USEPA accredited asbestos inspector. This visual estimation was

performed in accordance with the Work Plan and generally accepted practices in the asbestos industry based on materials that were accessible and exposed. The values are sufficiently accurate for the purpose of documenting the presence of asbestos within its space for the purpose of identifying abatement control conditions or for general policy considerations. Actual quantities may differ between visually estimated values and physical measurements. If a licensed asbestos abatement contractor is engaged to remove ACMs, the abatement contractor is responsible for verifying reported quantities of ACM.

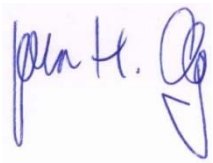
6 RECOMMENDATIONS

Based on the previously assumed ACM documented in prior asbestos survey reports provided to PSI that were observed at the subject site during this asbestos survey update, PSI recommends the following:

- Confirmed and assumed ACMs should be maintained in a good non-damaged condition and periodically inspected through the use of an O&M program while they remain in the building.
- The confirmed ACM floor tile (Category I Non-friable ACM), floor tile mastic (Category II Non-friable ACM), pipe insulation jacket with mastic (Category II Non-friable ACM) and roof flashing material (Category I Non-friable ACM) should be properly maintained (i.e. not sanded, abraded, sawn or broken). Prior to any future maintenance, renovation or demolition activities that will impact the ACM, they should be properly removed by a licensed asbestos abatement contractor prior to renovation or demolition activities that would disturb the material. Federal, State and Local regulations and guidelines should be strictly adhered to when removing ACM.
- The confirmed ACM pipe and fitting insulation and gasket material (RACM) must be properly removed by a licensed asbestos abatement contractor prior to renovation or demolition activities that would disturb the material. Federal, State and Local regulations and guidelines should be strictly adhered to when removing ACM.
- Any areas that were noted as being inaccessible during this project or any concealed areas, such as behind walls, will require a survey for ACM prior to future renovation or demolition activities that may impact those areas.
- Category I & II Non-friable ACM may often be left in place during demolition if not made friable by cutting, grinding or sanding. If left in place, these materials and associated waste cannot be recycled or used as clean fill and must be disposed of at a facility that accepts asbestos contaminated waste.

This report is respectfully submitted by,

PROFESSIONAL SERVICE INDUSTRIES, INC.



John Clary
Asbestos Building Inspector

Christopher M. Hundley
Principal Consultant

7 REFERENCES

Pickering Environmental Consultants. 1992. *Untitled survey report for asbestos and lead based paint*. October.

TerranearPMC, LLC. 2013. *Final Work Plan, Environmental Property Disposal Documentation for the 81, 88, 99 RSCs and PR Non-BRAC Sites*. January.

U.S. Army Center for Public Works. 1998. *Public Works Technical Bulletin No. 420-70-8 Installation Asbestos Management Program*. March.

U.S. Army Corps of Engineers. 2000. *Engineer Pamphlet 1110-1-22. Asbestos Surveys and Assessments, Standard Scope of Work.* September.

TABLES

TABLE 1—CONFIRMED ACMS—PREVIOUSLY SAMPLED BY PICKERING

C.R. LAYTON USARC—GAINESVILLE, FL (FL005) **PSI SURVEY DATE: FEBRUARY 26, 2013**

Material Number	Sampled by and date	Material Description	Material Location	F / NF [1]	Current Condition[2]	% Asbestos & Type[3]	USEPA NESHAP Category[4]	Estimated Current Quantity[5]
01	Pickering, October 22, 1992	Pipe insulation	Rooms 101, 102, 103, 106, 107, 110, 112, 113, 114, 115, 117, 118, firing range, 120, 121, 122, 123, 124, 125, 126, 127, 131, 221	F	Good	36% to 54% Chrysotile	RACM	1,050 LF
02	Pickering, October 22, 1992	Pipe fitting insulation	Rooms 101, 102, 103, 106, 107, 110, 112, 113, 114, 115, 117, 118, firing range, 120, 121, 122, 123, 124, 125, 126, 127, 131	F	Good	9% to 63% Chrysotile, 3% to 5% Amosite	RACM	40 SF
03	Pickering, October 22, 1992	Pipe insulation	Rooms 101, 102, 103, 106, 107, 110, 112, 113, 114, 115, 117, 118, firing range, 120, 121, 122, 123, 124, 125, 126, 127, 131, 221	F	Good	36% to 68% Chrysotile	RACM	525 LF
04	Pickering, October 22, 1992	Pipe fitting insulation	Rooms 101, 102, 103, 106, 107, 110, 112, 113, 114, 115, 117, 118, firing range, 120, 121, 122, 123, 124, 125, 126, 127, 131	F	Good	14% to 23% Chrysotile, 2% to 36% Amosite	RACM	40 SF
05	Pickering, October 22, 1992	Pipe insulation	Rooms 101, 102, 103, 106, 107, 110, 112, 113, 114, 115, 117, 118, firing range, 120, 121, 122, 123, 124, 125, 126, 127, 131, 221	F	Good	5% to 36% Chrysotile	RACM	1,500 LF
06	Pickering, October 22, 1992	Pipe fitting insulation	Rooms 101, 102, 103, 106, 107, 110, 112, 113, 114, 115, 117, 118, firing range, 120, 121, 122, 123, 124, 125, 126, 127, 131, 221	F	Good	10% to 32% Chrysotile 10% to 18% Amosite	RACM	150 LF
07	Pickering, October 22, 1992	Pipe fitting insulation	Boiler room 119	F	Good	<1% Chrysotile 5% Amosite	RACM	40 SF

TABLE 1—CONFIRMED ACMS—PREVIOUSLY SAMPLED BY PICKERING

C.R. LAYTON USARC—GAINESVILLE, FL (FL005) PSI SURVEY DATE: FEBRUARY 26, 2013

Material Number	Sampled by and date	Material Description	Material Location	F / NF [1]	Current Condition[2]	% Asbestos and Type[3]	USEPA NESHAP Category [4]	Estimated Current Quantity[5]
09	Pickering, October 22, 1992	1-inch gasket material	Arms vault door room 106A	NF	Good	65% Chrysotile	RACM	24 LF
11	Pickering, October 22, 1992	Roof flashing material	Throughout roof edges	NF	Good	5% Chrysotile	Cat I NF	700 SF
16	Pickering, October 22, 1992	12-inch by 12-inch light brown floor tile and associated mastic	Rooms 112, 120[6], 121[6], 131, 207, 208, 209, 210, 211, 212, 214A, 219A, 100A, 101A, 102A, 103A	NF	Good	Mastic: 30% Chrysotile	Cat I/II NF	3,200 SF
17	Pickering, October 22, 1992	9-inch by 9-inch black floor tile and associated mastic	Stairwell 118, lobby 117, firing range[7]	NF	Good	8% to 11% Chrysotile	Cat I/II NF	300 SF
18	Pickering, October 22, 1992	9-inch by 9-inch brown floor tile and associated mastic	Rooms 202, 203, 215, 216, 218, 101[8], 102[8]	NF	Good	26% Chrysotile	Cat I/II NF	1,800 SF
19	Pickering, October 22, 1992	12-inch by 12-inch green floor tile and associated mastic	Rooms 113, 214A, 215A	NF	Good	5% to 66% Chrysotile	Cat I/II NF	720 SF
21	Pickering, October 22, 1992	12-inch by 12-inch tan floor tile and associated mastic	Rooms 100A, 101A, 102A, 103A, 112, 124, 131, 207, 208, 209, 210, 211, 212, 219A	NF	Good	Mastic: 30% Chrysotile	Cat I/II NF	4,150 SF
23	Pickering, October 22, 1992	Pipe insulation jacket and mastic	Room 201	NF	Good	15% Chrysotile	Cat II NF	20 SF

1 F=Friable; NF=Non-friable
2 Cond.=Condition of Materials; either good, fair or poor
3 Sample results were obtained from the prior asbestos survey report provided by the 81st RSC. Results represent composite samples of homogeneous materials.
4 NESHAP Category=Regulated ACM (RACM), Cat I NF=Category I Non-Friable ACM, Cat II NF= Category II Non-Friable ACM
5 SF=square feet, LF=linear feet
6 Floor tile was either covered with carpet or replaced. The floor tile and mastic in these areas were previously reported as 9-inch by 9-inch black floor tile but was inaccessible during PSI's site inspection.
7 Floor tile and mastic in these areas have been removed
8 Floor tile was covered with carpet

TABLE 2—ACMS—ASSUMED BY PSI

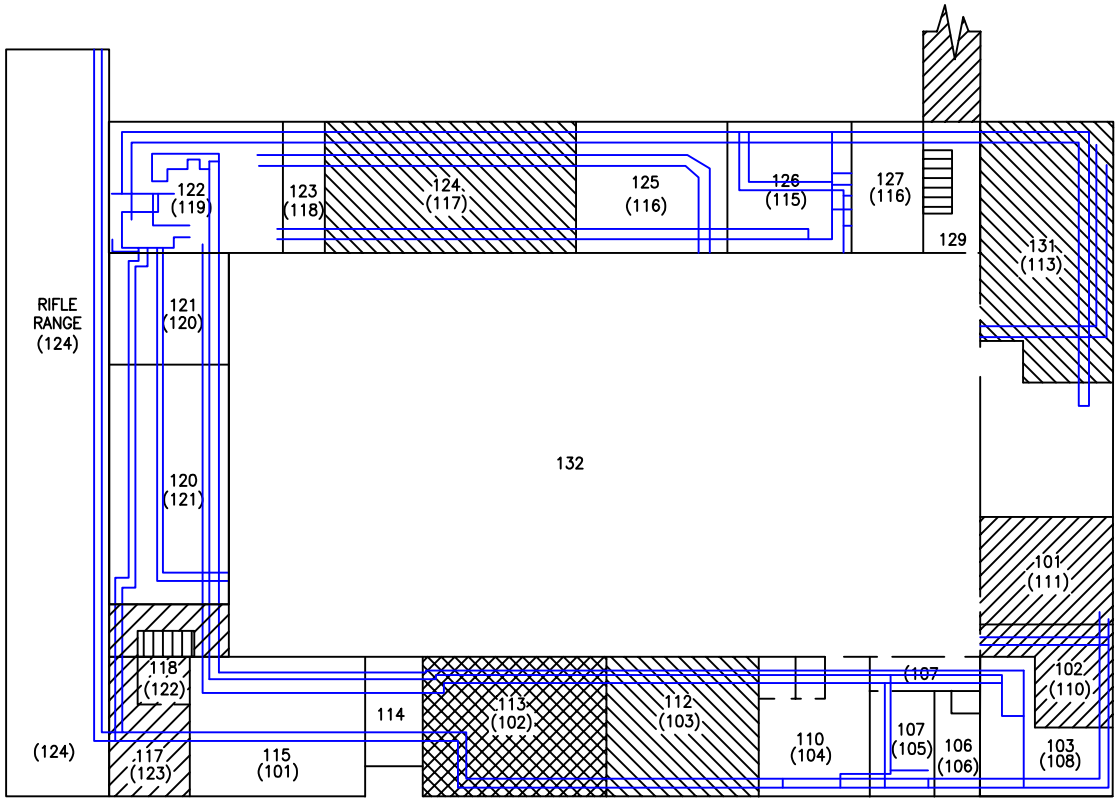
No ACMs were previously assumed by Pickering Environmental during the prior survey. The following suspect ACMs were not identified in the previous asbestos survey(s), but were observed by PSI during this field investigation, and are assumed to be ACM until tested:

USARC

- Replacement 12-inch by 12-inch light brown floor tile
- Concrete block
- Concrete block mortar
- Carpet mastic
- Brick
- Brick mortar
- Ceramic tile mastic
- Ceramic tile grout
- Stair tread and mastic

APPENDIX A—SITE LAYOUT AND EXTENT OF ACM DRAWING(S)

#140274F



LEGEND

- 9" x 9" ACM FLOOR TILE AND MASTIC
- ACM MASTIC UNDER NON–ACM FLOOR TILE
- 12" X 12" ACM FLOOR TILE AND MASTIC
- ACM PIPE INSULATION AND PIPE FITTING
- STENCILED ROOM NUMBERS IN PARENTHESES

06631693 F1

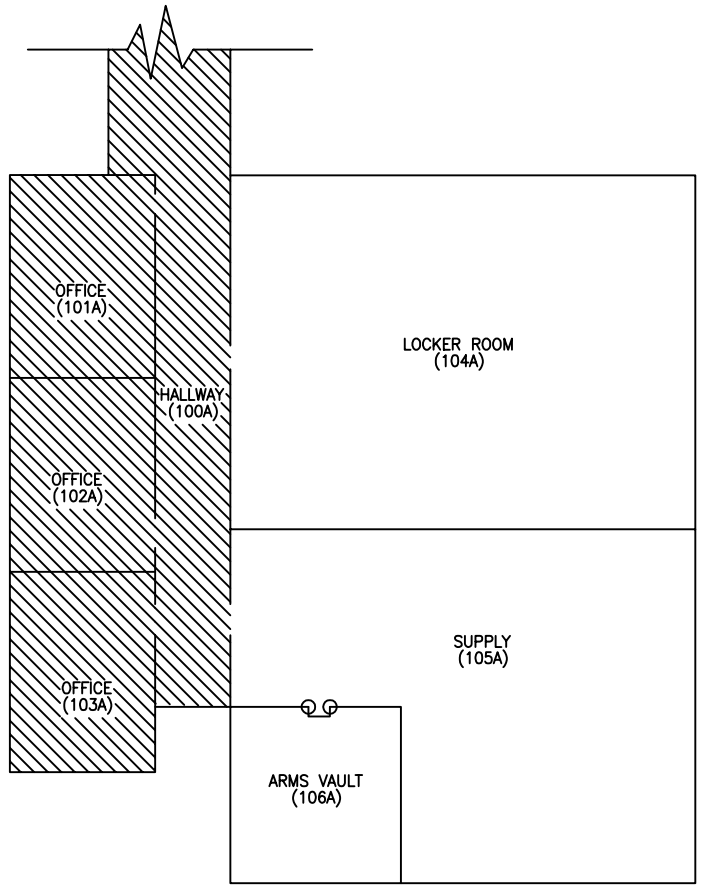
psi Information To Build On
Engineering • Consulting • Testing

ASBESTOS UPDATE SURVEY

MAIN BUILDING, FIRST FLOOR
C.R. LAYTON USARC
GAINESVILLE, ALACHUA COUNTY, FLORIDA

CHKD. BY: JHC	DRAWN BY: SMD	DATE: 03/08/13	SCALE: N.T.S.	PROJECT NO.: 06631693	REVISION:	FIGURE NO.: 1

#140274F



LEGEND

ASBESTOS–CONTAINING FLOOR TILE MASTIC

STENCILED ROOM NUMBERS IN PARENTHESES

ACM 1" WOVEN DOOR GASKET

06631693 F2

Information To Build On
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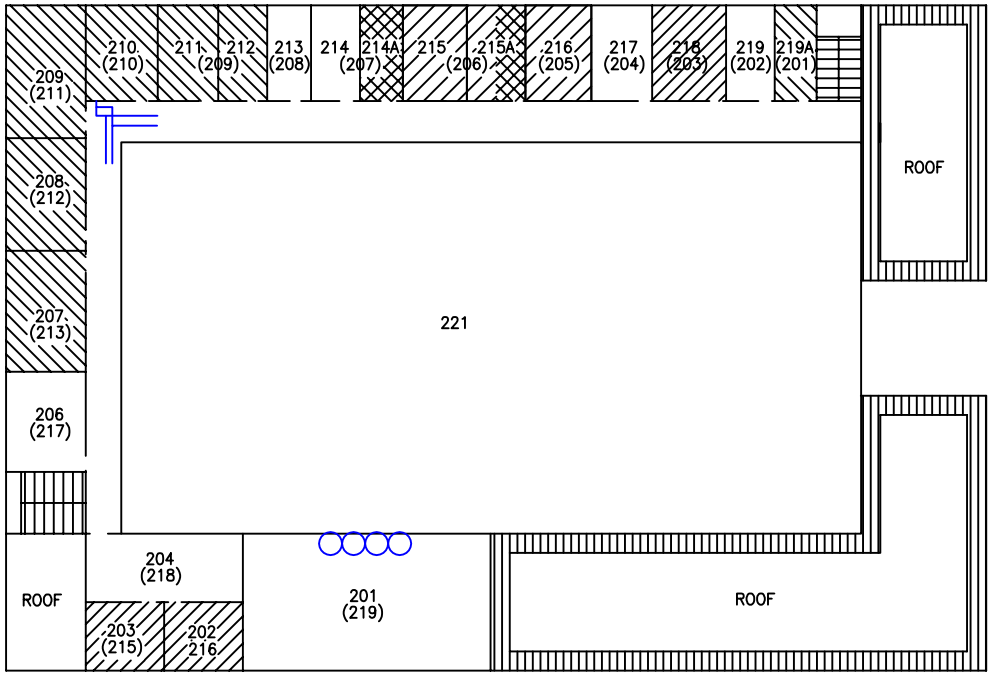
ASBESTOS UPDATE SURVEY

MAIN BUILDING, 1ST FLOOR, NATIONAL GUARD ANNEX
C.R. LAYTON USARC
GAINESVILLE, ALACHUA COUNTY, FLORIDA

CHKD. BY: JHC	DRAWN BY: SMD	DATE: 03/08/13	SCALE: N.T.S.	PROJECT NO.: 06631693	REVISION:	FIGURE NO.: 2

#140274F

NORTH



LEGEND

- 9" x 9" ACM FLOOR TILE AND MASTIC
- ACM MASTIC UNDER NON–ACM FLOOR TILE
- 12" X 12" ACM FLOOR TILE AND MASTIC
- ACM ROOF FLASHING
- ACM JACKETED PIPE INSULATION
- ACM PIPING (HORIZONTAL RISERS)
- STENCILED ROOM NUMBERS IN PARENTHESES

06631693 F3

psi Information To Build On
Engineering • Consulting • Testing

ASBESTOS UPDATE SURVEY

MAIN BUILDING, SECOND FLOOR
C.R. LAYTON USARC
GAINESVILLE, ALACHUA COUNTY, FLORIDA

CHKD. BY: JHC	DRAWN BY: SMD	DATE: 03/08/13	SCALE: N.T.S.	PROJECT NO.: 06631693	REVISION:	FIGURE NO.: 3

APPENDIX B—PHOTOGRAPHS

Photographic Log

Photo 1: Front of USARC Building. Confirmed ACM: roof flashing material

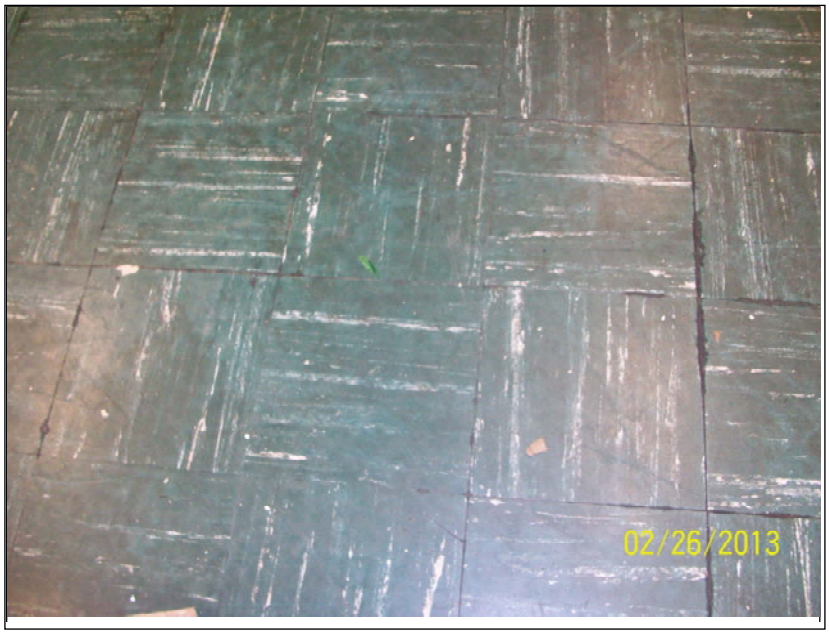


Photo 2: Confirmed ACM: 12-inch by 12-inch green floor tile and mastic

Photographic Log

Photo 3: Confirmed ACM: 9-inch by 9-inch black floor tile and mastic

Photo 4: Confirmed ACM: 9-inch by 9-inch brown floor tile and mastic

Photographic Log

Photo 7: Confirmed ACM: mastic underneath12-inch by 12-inch tan floor tile

Photo 8: Confirmed ACM: woven gasket adhered to the seal of the arms vault door

Photographic Log

Photo 9: Confirmed ACM: pipe insulation (please note dislodged section)

Photo 10: Confirmed ACM: pipe insulation. (Please note damage)

Photographic Log

Photo 11: Confirmed ACM: pipe fitting insulation

APPENDIX C—PRIOR REPORTS

#140274F

FLOOR A-2

1992

FACILITY: C.R. Layton, USARC
Gainesville, Florida
Training Center

SQUARE FOOTAGE: 24,468 square feet

FINDINGS:

The training center is a two-story steel and masonry structure resting on a concrete slab foundation. The roof is supported by steel joists and is covered by a flat, built-up roofing system with a top layer of gravel. The building was built in 1954 and is currently being used as administration offices and training facilities.

THERMAL SYSTEMS INSULATION:

The building's pipe insulation materials were sampled and analyzed to contain from 5 to 68% chrysotile asbestos with the exception of the fiberglass pipe insulation materials found in the newly renovated boiler room. Approximately 4,175 linear feet of asbestos-containing insulation exists in the remainder of the building in very good condition with minimal damage at the time of the survey.

The facility's pipe fitting materials were sampled outside the boiler room. Analysis revealed asbestos contents 2 to 36% amosite asbestos and 9 to 63% chrysotile asbestos. Some 308 fittings were evident at the facility and were in good to very good condition.

The pipe fitting insulation in the boiler room was installed more recently than the rest of the building's thermal system insulation. This material was sampled three times, two of which were analyzed to contain no detectable amounts of asbestos. The third sample, however, was analyzed to contain 5% amosite asbestos and a trace of chrysotile. The 40 fittings in the mechanical room were in excellent condition at the time of the survey but should still be considered as asbestos-containing due to the positive sample result.

Pipe insulation jacket and mastic materials were sampled in Room 215 at an abandoned air handling unit. This 20 linear feet of material was analyzed to contain 15% chrysotile asbestos. The insulation was in good condition with no damage at survey time.

FLOOR COVERINGS:

Green 12" x 12" floor tile and mastic was sampled in Rooms 113 and 214A and analyzed to contain 5 to 6% chrysotile asbestos. The 720 square feet of material was in good condition with no damage at the time of the survey.

Jacksonville COE
Various, Florida

#140274F
FL005
Asb

Black 9" x 9" floor tile and mastic was sampled in and around the gun range. Analysis revealed asbestos contents of 8 to 11% chrysotile asbestos. The 2,250 square feet of material was in good condition with minor damage.

Brown 9" x 9" floor tile and mastic was evident in various offices and rooms throughout the facility. Samples from the 1,800 square feet of material were analyzed to contain 11 to 26% chrysotile asbestos. The material was in good condition with only a small amount of damage.

Floor tile mastic underneath tan 12" x 12" and light brown 12" x 12" tiles was sampled and analyzed to contain 30% chrysotile asbestos. This 4,150 square feet of material is in good condition and is protected by the overlaying tile.

GASKET MATERIAL:

A one inch wide woven gasket was adhered to the seal of the ammunition vault door. This 24 linear feet of material was sampled and analyzed to contain 65% chrysotile asbestos and is in good condition with no damage at survey time.

ROOFING:

During the laboratory analysis, a black material was culled from of the flashing samples and analyzed to contain 5% chrysotile asbestos. The 700 square feet of material was in good condition with no damage at the time of the survey.

NEGATIVE MATERIALS:

Sink sound insulation, built-up roofing, suspended ceiling tiles, cove base materials and mastics, window putty, and white, tan, grey and light brown 12" x 12" floor tiles were all suspect materials sampled and analyzed to contain no detectable amounts of asbestos present.

RECOMMENDATIONS:

All materials found to contain asbestos at this facility were in good to excellent condition with minimum damage at the time of the survey. The damaged areas can be easily repaired through a proper Operations and Maintenance program and could be maintained in their present condition with minimal effort. Should un-repairable damage occur, or should building renovation or demolition be scheduled that would affect the current good condition of the defined asbestos materials, a fully qualified asbestos abatement professional should be contracted for the removal work.

Jacksonville COE
Various, Florida

#140274F
FL 005
Asb.

FACILITY: C.R. Layton USARC
Gainesville, Florida
Training Center

SQUARE FOOTAGE: 24,468 Square Feet

FINDINGS:

The training center is a two-story steel and masonry structure resting on a concrete slab foundation. The roof is supported by steel joists and is covered by a flat, built-up roofing system with a top layer of gravel. The building was built in 1954 and is currently being used as administration offices and training facilities.

LEAD BASED PAINT CONTAINING MATERIALS:

Analysis of the following material samples indicated a lead content at or above the 0.5% action level:

1) Maroon paint on an exterior window frame was analyzed to contain 1.4% lead by weight.

2) Red primer paint on the metal roll-up door frame was analyzed to contain 1.2% lead by weight.

3) Yellow paint on the hazard markers at the metal roll-up door frame was analyzed to contain 0.890% lead by weight.

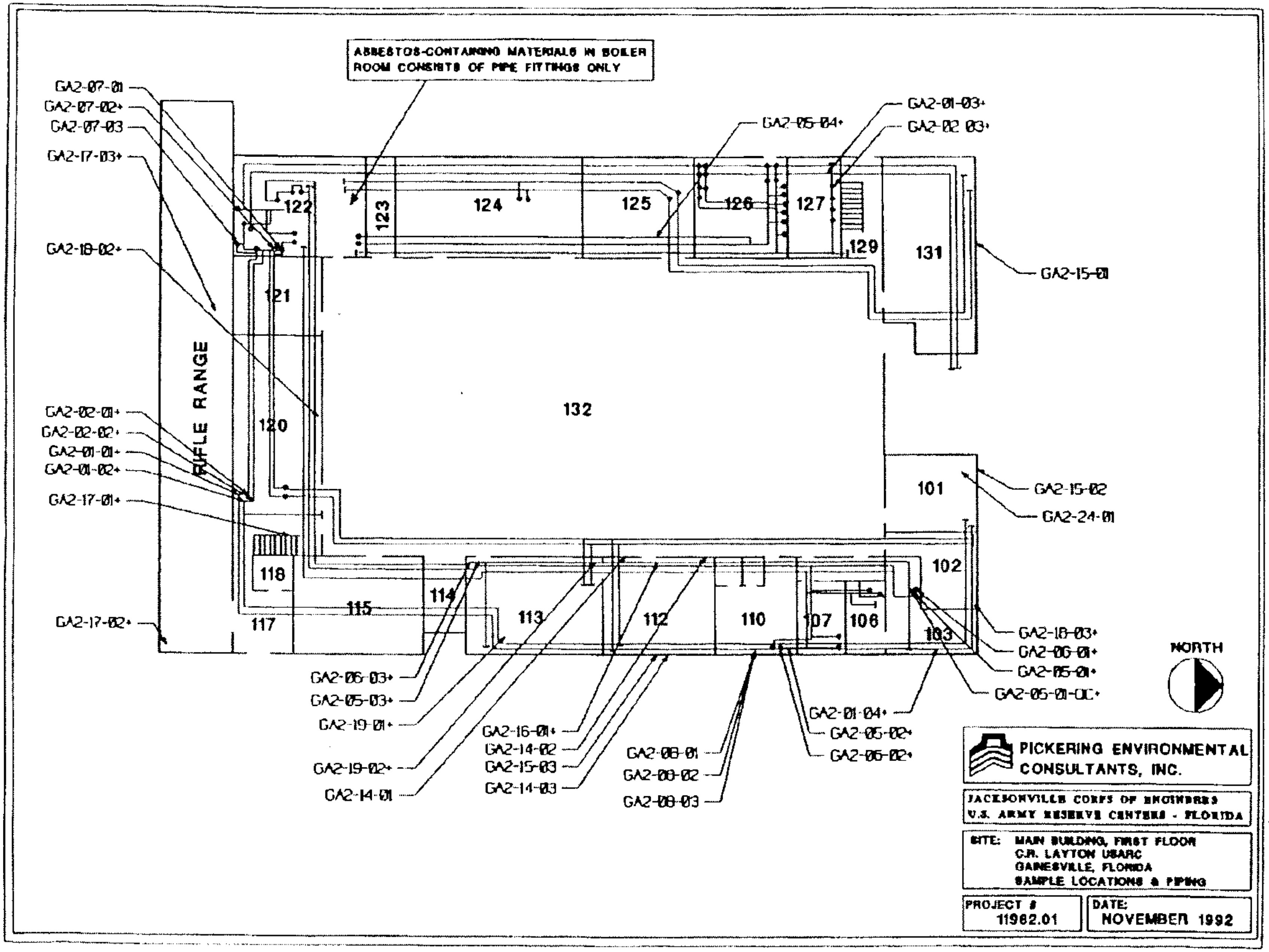
4) Black paint on the metal deflection wall in the gun range was analyzed to contain 9.6% lead by weight.

5) Sand in the gun range pit was also tested for lead. This material was analyzed to contain 2.1 to 7.9% lead by weight.

NEGATIVE MATERIALS:

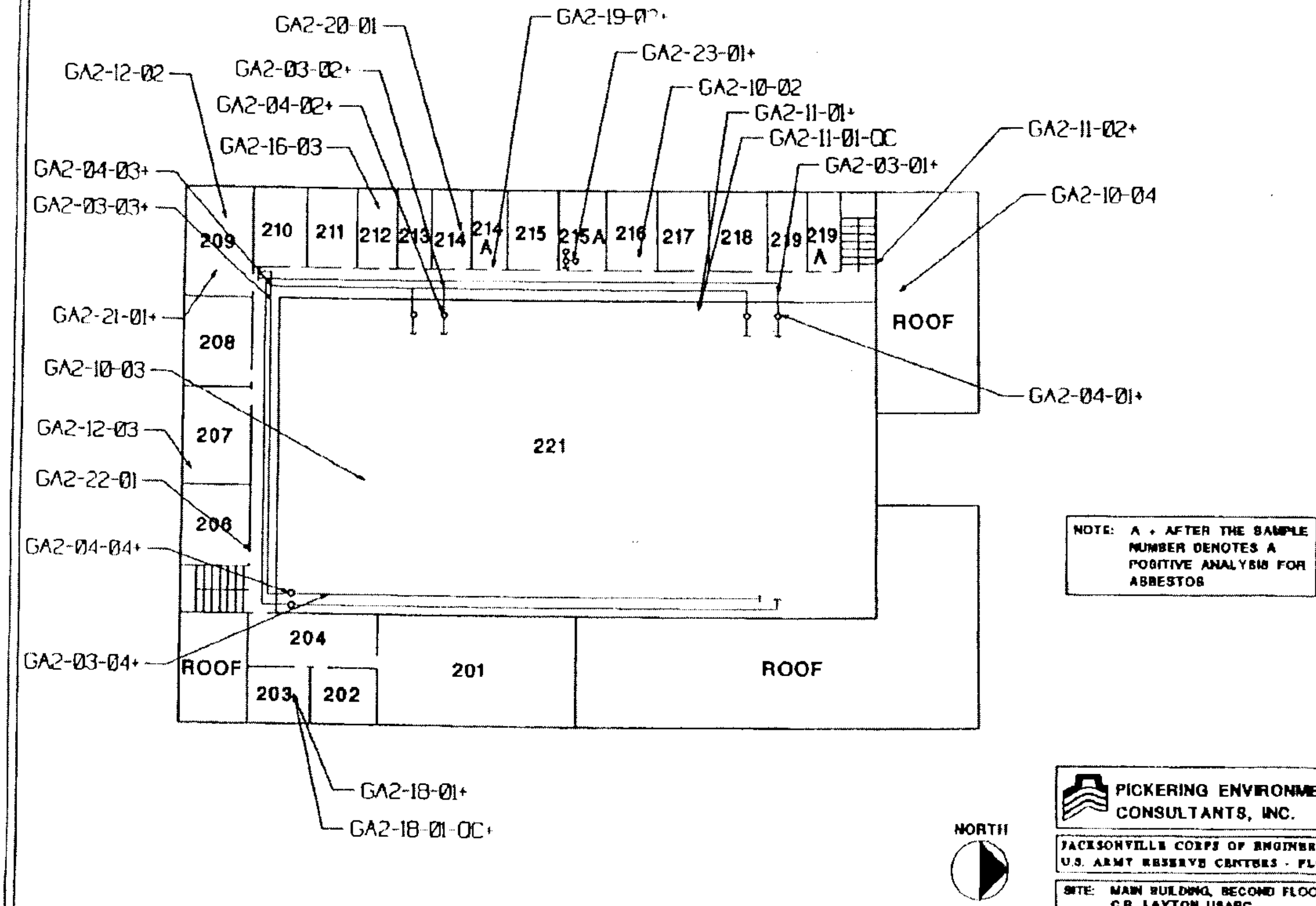
1. Light tan paint on interior walls
2. Brown paint on interior walls
3. Tan paint on interior door
4. Tan paint on interior door frame
5. Tan paint on stair handrail
6. White paint on pipe insulation jacket
7. Tan paint on radiator cover
8. Tan paint on pipe
9. Brown paint on pipe
10. Tan paint on interior window frame
11. Green paint on bathroom wall
12. Light gr[illegible]n paint on interior walls
13. Grey paint on interior walls
14. White paint on kitchen walls
15. Yellow paint on walls in Room 106
16. Chartreuse paint on walls in the gun range

#140274F



FL005
Glsb.

#140274F



PICKERING ENVIRONMENTAL CONSULTANTS, INC.

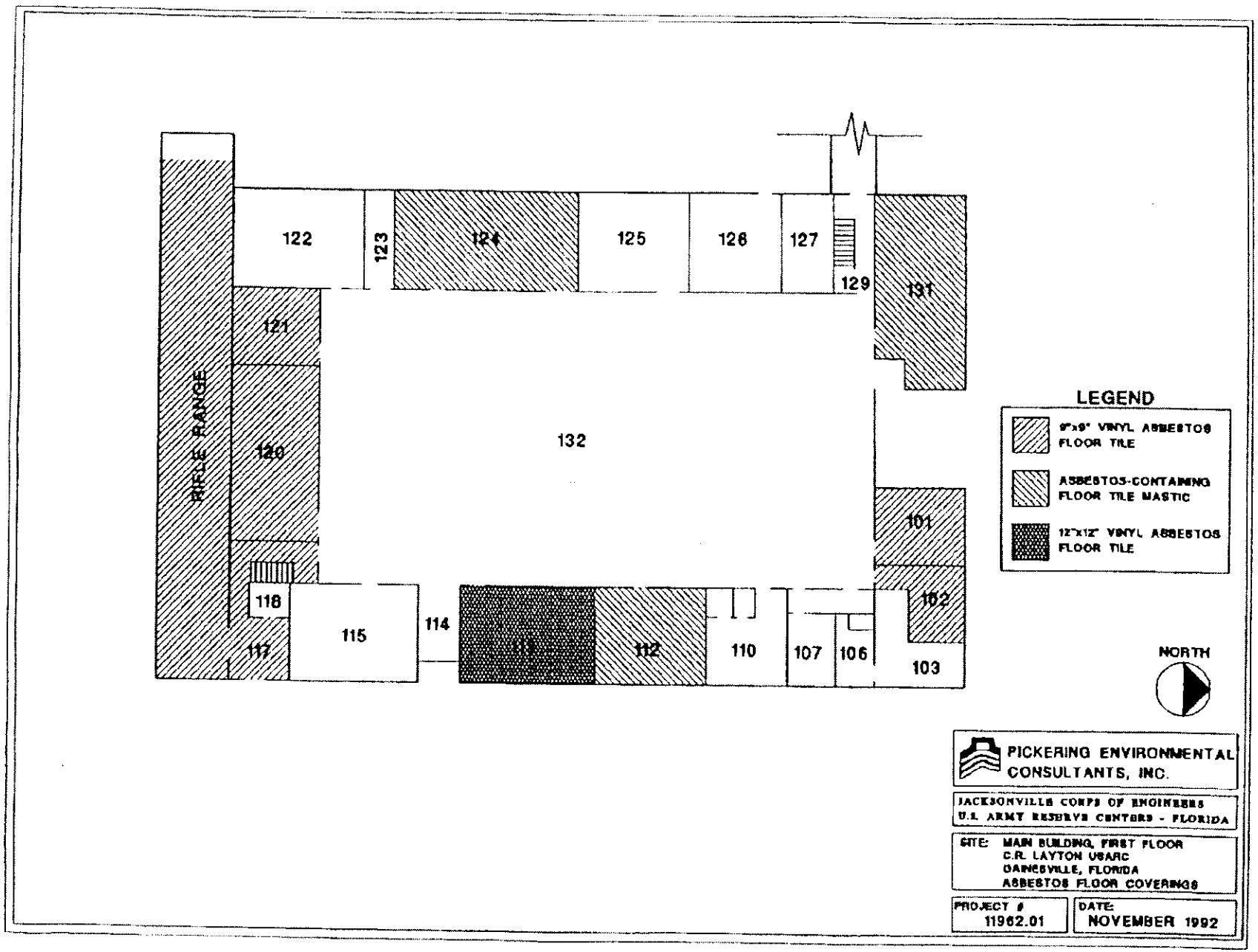
JACKSONVILLE CORPS OF ENGINEERS
U.S. ARMY RESERVE CENTERS - FLORIDA

SITE: MAIN BUILDING, SECOND FLOOR
C.R. LAYTON USARC
GAINESVILLE, FLORIDA
SAMPLE LOCATIONS & PIPING

PROJECT #	DATE:
11982.01	NOVEMBER 1992

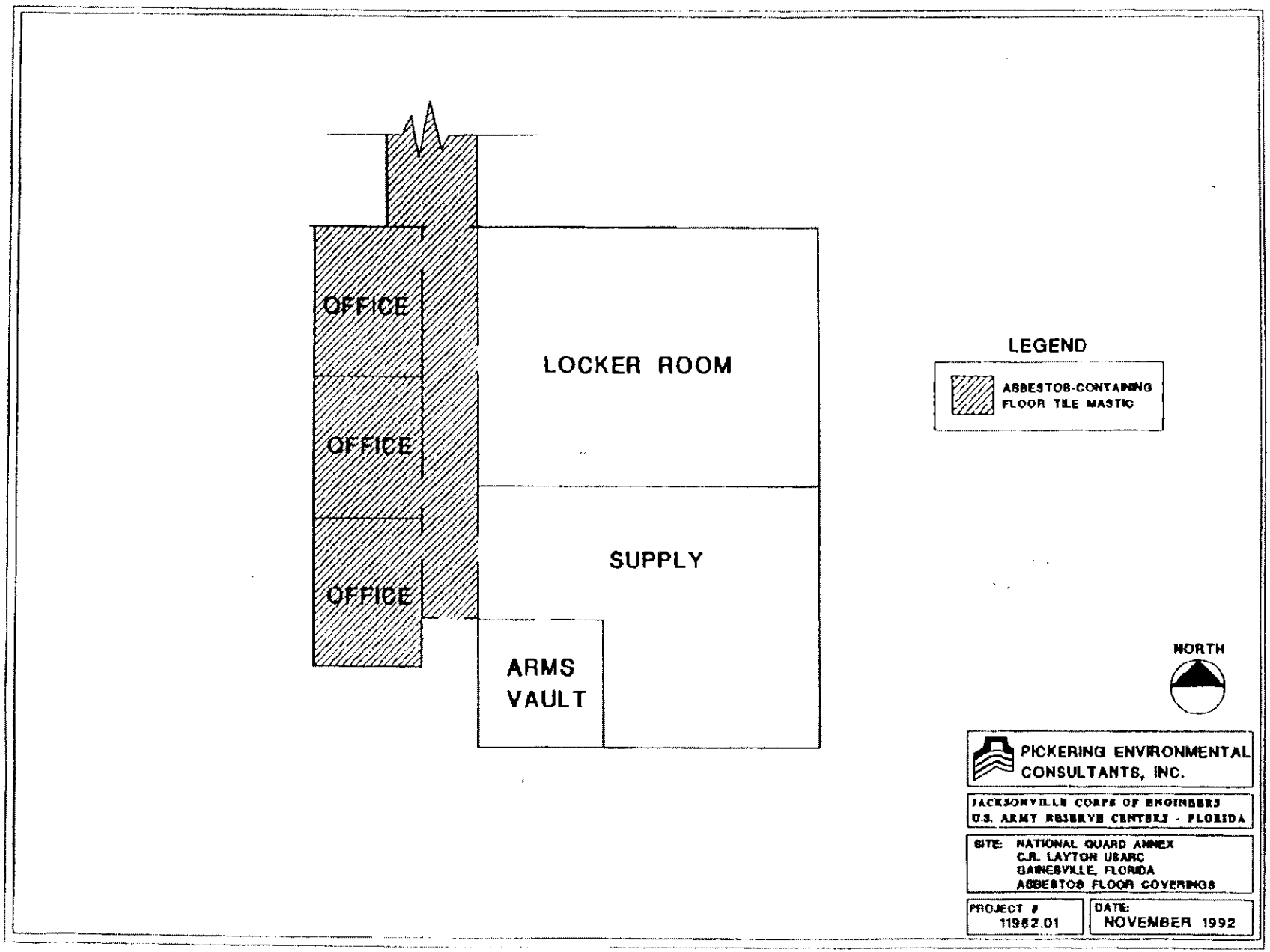
FL005
GSB

#140274F



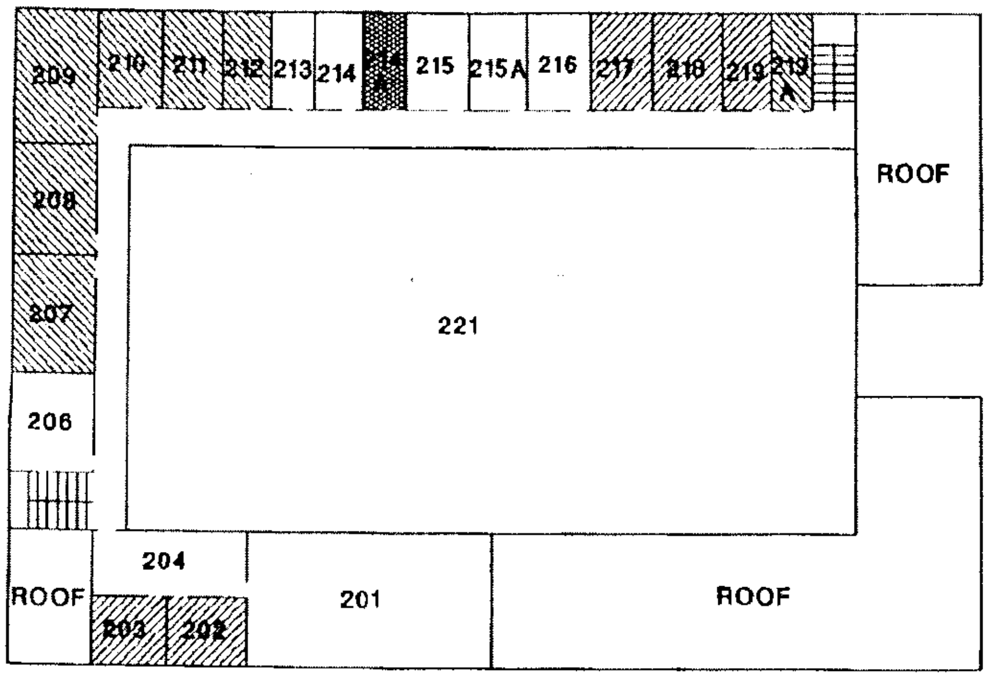
FLOOR Asb

#140274F



FL 005
059

#140274F



LEGEND

- 9"x9" VINYL ASBESTOS FLOOR TILE
- ASBESTOS-CONTAINING FLOOR TILE MASTIC
- 12"x12" VINYL ASBESTOS FLOOR TILE

PICKERING ENVIRONMENTAL CONSULTANTS, INC.

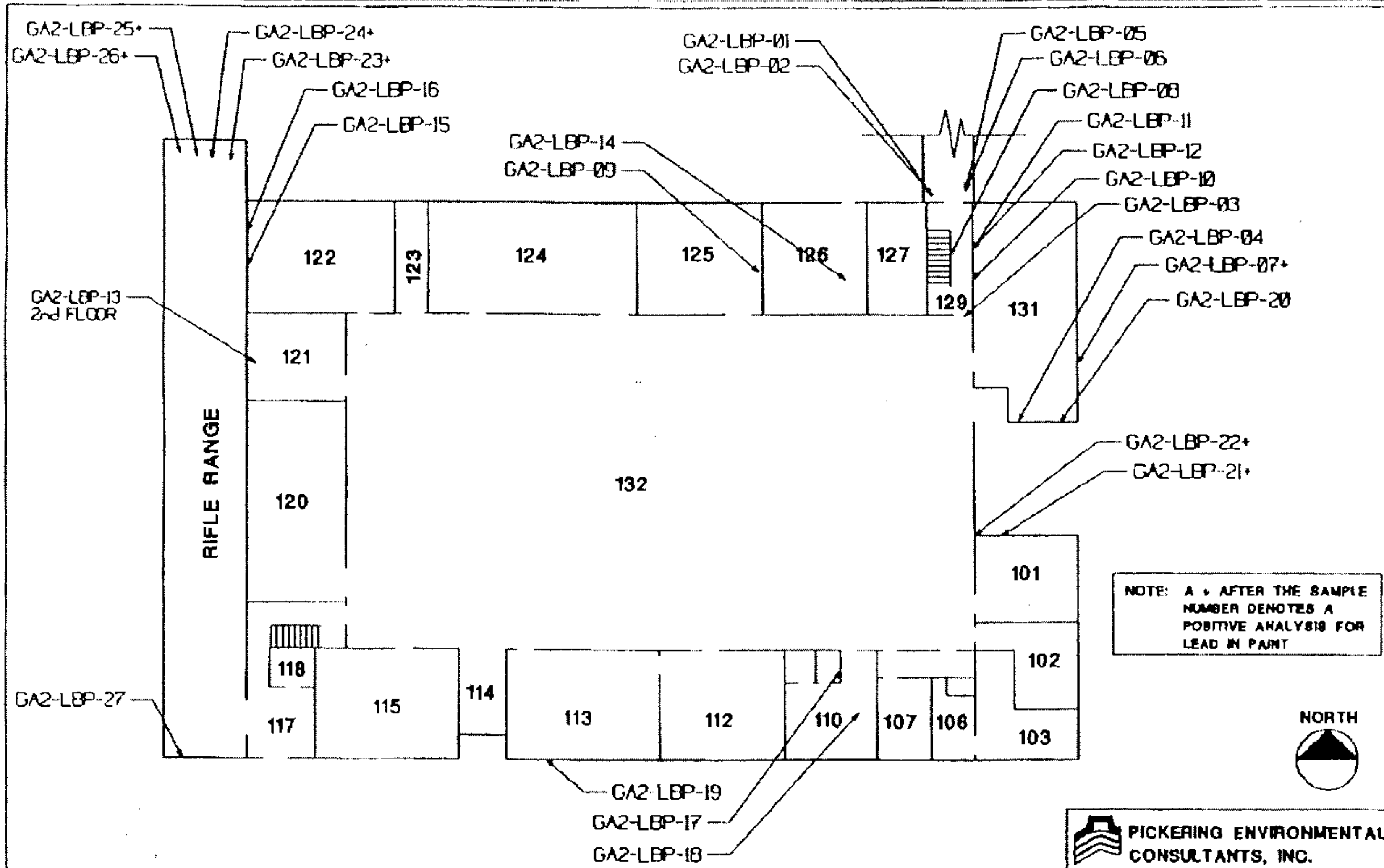
JACKSONVILLE CORPS OF ENGINEERS
U.S. ARMY RESERVE CENTERS - FLORIDA

SITE: MAIN BUILDING, SECOND FLOOR
C.R. LAYTON USARC
GAINESVILLE, FLORIDA
ASBESTOS FLOOR COVERINGS

PROJECT #	DATE:
11962.01	NOVEMBER 1992

FL005
Asb

#140274F



NOTE: A + AFTER THE SAMPLE NUMBER DENOTES A POSITIVE ANALYSIS FOR LEAD IN PAINT

PICKERING ENVIRONMENTAL CONSULTANTS, INC.

JACKSONVILLE CORPS OF ENGINEERS
U.S. ARMY RESERVE CENTERS - FLORIDA

SITE: MAIN BUILDING, FIRST FLOOR
C.R. LAYTON USARC
GAINESVILLE, FLORIDA
LEAD PAINT SAMPLE LOCATIONS

PROJECT #	DATE:
11962.01	NOVEMBER 1992

FL005
Asb

FL 005 0[illegible] #140274F

PICKERING ENVIRONMENTAL CONSULTANTS

BASIC BUILDING INSPECTION REPORT FOR JUDGEMENT ON POSSIBLE ASBESTOS OCCURRENCE

Client: JAXONVILLE CORPS
Project: JAX COE - VARIOUS
Location: CR LAYTON, GAINESVILLE FLA.

Project No: 11962.01
Utilization: ADMIN.
Useful Area: 24,468
No. of Stories: 2
Year of Construction: 1964

INFORMATION ON CONSTRUCTION SITUATION OF IMPORTANT BUILDING UNITS

		Building:	Annex:
Reinforced Concrete		☐	☐
Masonry		☑	☐
Steel		☑	☐
Wooden Girder		☐	☐
Mixed Structure		____	____

SAME

		Windows:	Roof:
Steel		☑	Flat with gravel ☑
Wood		☐	Tiles on Wood ☐
Aluminum		☐	
Plastic		☐	
Wood/Aluminum		☐	

Ceilings:		Floors:	
Plaster	in ____	Stone	in ____
Panel Ceiling	in ____	PVC	in ____
Metal Cassettes	in ____	Carpet	in ____
Gypsum Boards	in ____	Wood	in ____
MOSTLY OPEN CONCRETE		CONCRETE / SOME TILES	
SOME TEGTUM & SOME 2'x4' DRP			

Ventilation System ☐ ____ Air Conditioning System ☑ WINDOW Heating System ☑ RADIATORS/STEAM

CONDITION OF BUILDING AND GENERAL IMPRESSION

New state ☐ Good Condition ☑ Renovation Required ☐ Old ☐

Judgement and Remarks: Asbestos Suspected Yes ☐ No ☐

MOSTLY OPEN CEILING DECKS - W. SOME 2'x4' DROP CNG TILES.

Useful Area ____ SF No. of Stories: 2 Height approx 28' Photo No. ____

Was Asbestos Seen or Found: Yes ☐* No ☐

*If yes, see separate locality report

Processed by ____
10-22-92 (Date) (Signature)

FL 005 A#140274F

PICKERING ENVIRONMENTAL CONSULTANTS

HOMOGENEOUS AREA DATA SHEET

DATE 10-22-92 HOMOGENEOUS AREA # 01

PROJECT NAME & NO. JAX COE - VARIOUS MATERIAL DESC. PIPE INSULATION

BUILDING NAME & NO. CR. LAYTON G'VILLE ROOM NO./ LOCATION STEAM SYSTEM

INSPECTOR (1) J. Rhodes INSPECTOR (2) C. Craig

Material Type	Depth To Substrate	Material Description	Estimated Amounts	Material Cond.
Surfacing ____	3 1/4"	Key ____	Sq. Ft. 1,350 Number	Excellent ____
Thermal ✓		Comments: ____	Lin. Ft. ____ (Fittings)	Very Good ✓
Misc. ____		____	Number ____ ____	Good ____
				Fair ____
				Poor ____

Building Description:	Sample Numbers	Results
	GAZ-01-01	36-ch
	GAZ-01-02	54 ch
	GAZ-01-03	41 ch
	GAZ-01-04	54 ch

Friable	Physical Damage	Water Damage	Deterioration Delamination	Vibration	Air Flow
(Yes)	>10%	>10%	>10%	Severe	High Plenum
~~No~~	<10%	<10%	<10%	Heavy	Mod Duct
	> 5%	> 5%	> 5%	Mod	~~Low~~ Vert. Shaft
	< 5%	< 5%	< 5%	(Light)	None
	(None)	(None)	(None)	None	

Surface Texture	Thermal Expansion	Accessibility	Maint. Custodial	Barriers	Damage Potential
Rough	High	High	High	Yes	High
(Med)	(Mod)	(Mod)	Mod	(No)	Mod
Smooth	Low	Low	~~Low~~	Perm	(Low)
	None	None	None	Temp	None

Average Daily Occupants	Duration of use
10	Hr/Day 8
	Days/Yr: 300

HVAC Systems Type:

- [ ] ~~FORCED~~ AIR (WINDOW)
- [x] ~~HOT~~ WATER ONLY
- [ ] CHILLED WATER ONLY
- [ ] HOT / CHILLED WATER
- [ ] NO HVAC

Assessment:

- [ ] DAMAGED OR SIGNIFICANTLY DAMAGED THERMAL INSULATION
- [ ] DAMAGED FRIABLE SURFACING MATERIAL
- [ ] SIGNIFICANTLY DAMAGED FRIABLE SURFACING MATERIAL
- [ ] DAMAGED OR SIGNIFICANTLY DAMAGED FRIABLE MISC. MATERIAL
- [x] ACBM WITH POTENTIAL FOR DAMAGE
- [ ] ACBM WITH POTENTIAL FOR SIGNIFICANT DAMAGE
- [ ] ANY REMAINING FRIABLE ACBM OR SUSPECT ACBM

FLDOS USD. #140274F

PICKERING ENVIRONMENTAL CONSULTANTS

HOMOGENEOUS AREA DATA SHEET

DATE 10-22-92 HOMOGENEOUS AREA # 02

PROJECT NAME & NO. JAX COE - VARIOUS MATERIAL DESC. PIPE JOINT INSULATION

BUILDING NAME & NO. C.R. LAYTON - G'VILLE ROOM NO./ LOCATION STEAM SYSTEM

INSPECTOR (1) J. Rhodes INSPECTOR (2) C. Craig

Material Type	Depth To Substrate	Material Description	Estimated Amounts	Material Cond.
Surfacing ____	1/2"	Key ____	Sq. Ft. ____	Excellent ____
Thermal ✓		Comments:	Lin. Ft. ____	Very Good ✓
Misc. ____		____	Number ____	Good ____
		____	Number (Fittings) 50	Fair ____
				Poor ____

Building Description:

Sample Numbers	Results
GA2-02-01	5 AM 9 ch
GA2-02-02	3 AM 9 ch
GA2-02-03	5 AM 63 ch
~~GA2-02-04~~ N/A	

Friable	Physical Damage	Water Damage	Deterioration Delamination	Vibration	Air Flow
Yes	>10%	>10%	>10%	Severe	High Plenum
(No)	<10%	<10%	<10%	Heavy	Mod Duct
	> 5%	> 5%	> 5%	Mod	(Low) Vert. Shaft
	< 5%	< 5%	< 5%	~~High~~	None
	(None)	(None)	(None)	None	

Surface Texture	Thermal Expansion	Accessibility	Maint. Custodial	Barriers	Damage Potential
Rough	High	High	High	Yes	High
(Med)	(Mod)	(Mod)	Mod	(No)	Mod
Smooth	Low	Low	(Low)	Perm	(Low)
	None	None	None	Temp	None

Average Daily Occupants ____

Duration of use ____ Hr/Day ____ Days/Yr: ✓

HVAC Systems Type:

- ☐ FORCED AIR
- ☐ HOT WATER ONLY
- ☐ CHILLED WATER ONLY
- ☐ HOT / CHILLED WATER
- ☐ NO HVAC

Assessment:

- ☐ DAMAGED OR SIGNIFICANTLY DAMAGED THERMAL INSULATION
- ☐ DAMAGED FRIABLE SURFACING MATERIAL
- ☐ SIGNIFICANTLY DAMAGED FRIABLE SURFACING MATERIAL
- ☐ DAMAGED OR SIGNIFICANTLY DAMAGED FRIABLE MISC MATERIAL
- ☑ ACBM WITH POTENTIAL FOR DAMAGE
- ☐ ACBM WITH POTENTIAL FOR SIGNIFICANT DAMAGE
- ☐ ANY REMAINING FRIABLE ACBM OR SUSPECT ACBM

FL 005 GSB #140274F

PICKERING ENVIRONMENTAL CONSULTANTS

HOMOGENEOUS AREA DATA SHEET

DATE 10-22-92 HOMOGENEOUS AREA # 03

PROJECT NAME & NO. Jax Coe - Various MATERIAL DESC. Pipe Insulation

BUILDING NAME & NO. CE Layton - G'ville ROOM NO./ LOCATION Mechanical Hot H2O System

INSPECTOR (1) J Rhodes INSPECTOR (2) C. Craig Pope

Material Type	Depth To Substrate	Material Description	Estimated Amounts		Material Cond.
Surfacing ____	3/4"	Key ____	Sq. Ft. ____	Number (Fittings)	Excellent ____
Thermal ✓		Comments:	Lin. Ft. 675	____	Very Good ✓
Misc. ____		____	Number ____		Good ____
		____			Fair ____
					Poor ____

Building Description:	Sample Numbers	Results
	GAZ-03-01	36 ch
	GAZ-03-02	54 ch
	GAZ-03-03	36 ch
	GAZ-03-04	68 ch

Friable	Physical Damage	Water Damage	Deterioration Delamination	Vibration	Air Flow
(Yes)	>10%	>10%	>10%	Severe	High Plenum
No	<10%	<10%	<10%	Heavy	Mod Duct
	> 5%	> 5%	> 5%	Mod	~~Low~~ Vert. Shaft
	(< 5%)	< 5%	< 5%	~~Light~~	None
	~~None~~	(None)	(None)	None	

Surface Texture	Thermal Expansion	Accessibility	Maint. Custodial	Barriers	Damage Potential
Rough	High	High	High	Yes	High
(Med)	(Mod)	(Mod)	Mod	(No)	Mod
Smooth	Low	Low	(Low)	Perm	~~Low~~
	None	None	None	Temp	None

Average Daily Occupants	Duration of use	Assessment:
____	Hr/Day ____	☐ DAMAGED OR SIGNIFICANTLY DAMAGED THERMAL INSULATION
	Days/Yr: ____	☐ DAMAGED FRIABLE SURFACING MATERIAL
		☐ SIGNIFICANTLY DAMAGED FRIABLE SURFACING MATERIAL
		☐ DAMAGED OR SIGNIFICANTLY DAMAGED FRIABLE MISC. MATERIAL
		☑ ACBM WITH POTENTIAL FOR DAMAGE
		☐ ACBM WITH POTENTIAL FOR SIGNIFICANT DAMAGE
		☐ ANY REMAINING FRIABLE ACBM OR SUSPECT ACBM

HVAC Systems Type:

- ☐ FORCED AIR
- ☐ HOT WATER ONLY
- ☐ CHILLED WATER ONLY
- ☐ HOT / CHILLED WATER
- ☐ NO HVAC

FL DOS AS#140274F

PICKERING ENVIRONMENTAL CONSULTANTS

HOMOGENEOUS AREA DATA SHEET

DATE 10-22-92
PROJECT NAME & NO. Jax Coe Various
BUILDING NAME & NO. CTZ LAUNCH G'VILLE
INSPECTOR (1) J. Rhodes

HOMOGENEOUS AREA # 04
MATERIAL DESC. Pipe Joint Insulation
ROOM NO./ LOCATION Hot H2O System
INSPECTOR (2) C. Craig

Material Type	Depth To Substrate	Material Description	Estimated Amounts	Material Cond.
Surfacing ___ Thermal ✓ Misc. ___	1/2"	Key ___ Comments:	Sq. Ft. ___ Lin. Ft. ___ Number ___ Number (Fittings) 43	Excellent ___ Very Good ✓ Good ___ Fair ___ Poor ___

Building Description:

Sample Numbers	Results
GAZ-04-01	23 am 23 ch
GAZ-04-02	30 am 20 ch
GAZ-04-03	36 am 23 ch
GAZ-04-04	2 am 14 ch

Friable	Physical Damage	Water Damage	Deterioration Delamination	Vibration	Air Flow
Yes (No)	>10% <10% > 5% (< 5%) ~~None~~	>10% <10% > 5% < 5% (None)	>10% <10% > 5% < 5% (None)	Severe Heavy Mod (Light) None	High Plenum Mod Duct (Low) Vert. Shaft None

Surface Texture	Thermal Expansion	Accessibility	Maint. Custodial	Barriers	Damage Potential
Rough (Med) Smooth	High (Mod) ~~Low~~ None	High (Mod) Low None	High Mod (Low) None	Yes (No) Perm Temp	High Mod (Low) None

Average Daily Occupants ___

Duration of use
Hr/Day ___
Days/Yr. ___

HVAC Systems Type:
- [ ] FORCED AIR
- [ ] HOT WATER ONLY
- [ ] CHILLED WATER ONLY
- [ ] HOT / CHILLED WATER
- [ ] NO HVAC

Assessment:
- [ ] DAMAGED OR SIGNIFICANTLY DAMAGED THERMAL INSULATION
- [ ] DAMAGED FRIABLE SURFACING MATERIAL
- [ ] SIGNIFICANTLY DAMAGED FRIABLE SURFACING MATERIAL
- [ ] DAMAGED OR SIGNIFICANTLY DAMAGED FRIABLE MISC. MATERIAL
- [x] ACBM WITH POTENTIAL FOR DAMAGE
- [ ] ACBM WITH POTENTIAL FOR SIGNIFICANT DAMAGE
- [ ] ANY REMAINING FRIABLE ACBM OR SUSPECT ACBM

FLOOS #4240274E

PICKERING ENVIRONMENTAL CONSULTANTS

HOMOGENEOUS AREA DATA SHEET

DATE 10-22-92
PROJECT NAME & NO. JAX, COE - VARIOUS
BUILDING NAME & NO. CR LAYTON G'VILLE
INSPECTOR (1) J. Rhodes
HOMOGENEOUS AREA # 05
MATERIAL DESC. Pipe Insulation
ROOM NO./ LOCATION Domestic H2O System
INSPECTOR (2) C. Craig

Material Type	Depth To Substrate	Material Description	Estimated Amounts	Material Cond.
Surfacing ___ Thermal ✓ Misc. ___	1/2"	Key ___ Comments: ___	Sq. Ft. ___ Lin. Ft. 2,150 Number ___ Number (Fittings) ___	Excellent ___ Very Good ✓ Good ___ Fair ___ Poor ___

Building Description:

Sample Numbers	Results
GA2-05-01-QC	10 cm
GA2-05-01	5 cm
GA2-05-02	23 cm
GA2-05-03	9 cm
GA2-05-04	36 cm

Friable	Physical Damage	Water Damage	Deterioration Delamination	Vibration	Air Flow
Yes ~~No~~	>10% <10% > 5% ~~< 5%~~ ~~None~~	>10% <10% > 5% < 5% ~~None~~	>10% <10% > 5% < 5% ~~None~~	Severe Heavy Mod ~~Light~~ None	High Plenum Mod Duct (Low) Vert. Shaft None

Surface Texture	Thermal Expansion	Accessibility	Maint. Custodial	Barriers	Damage Potential
Rough ~~Med~~ Smooth	High Mod ~~Low~~ None	High ~~Mod~~ Low None	High Mod ~~Low~~ None	Yes ~~No~~ Perm Temp	High Mod ~~Low~~ None

Average Daily Occupants ___

Duration of use
Hr/Day ___
Days/Yr: ___

HVAC Systems Type:
- ☐ FORCED AIR
- ☐ HOT WATER ONLY
- ☐ CHILLED WATER ONLY
- ☐ HOT / CHILLED WATER
- ☐ NO HVAC

Assessment:
- ☐ DAMAGED OR SIGNIFICANTLY DAMAGED THERMAL INSULATION
- ☐ DAMAGED FRIABLE SURFACING MATERIAL
- ☐ SIGNIFICANTLY DAMAGED FRIABLE SURFACING MATERIAL
- ☐ DAMAGED OR SIGNIFICANTLY DAMAGED FRIABLE MISC. MATERIAL
- ☐ ACBM WITH POTENTIAL FOR DAMAGE
- ☐ ACBM WITH POTENTIAL FOR SIGNIFICANT DAMAGE
- ☐ ANY REMAINING FRIABLE ACBM OR SUSPECT ACBM

FL 005 as#140274F

PICKERING ENVIRONMENTAL CONSULTANTS

HOMOGENEOUS AREA DATA SHEET

DATE 10-22-92 HOMOGENEOUS AREA # 06

PROJECT NAME & NO. JAX COE - VARIOUS MATERIAL DESC. PIPE JOINT INSULATION

BUILDING NAME & NO. CR LAYTON G'VILLE ROOM NO / LOCATION DOMESTIC HOT SYSTEM

INSPECTOR (1) J. Rhodes INSPECTOR (2) C. CRAIG

Material Type	Depth To Substrate	Material Description	Estimated Amounts		Material Cond.
Surfacing ____	1/2"	Key ____	Sq. Ft. ____	Number (Fittings)	Excellent ____
Thermal ✓		Comments:	Lin. Ft. ____	215	Very Good ____
Misc. ____		____	Number ____		Good ✓
		____			Fair ____
					Poor ____

Building Description:

Sample Numbers	Results
GAZ-06-01	18 AM 32 CH
GAZ-06-02	10 AM 15 CH
GAZ-06-03	15 AM 10 CH
~~GAZ-06-04~~ N/A OK	

Friable	Physical Damage	Water Damage	Deterioration Delamination	Vibration	Air Flow
Yes	>10%	>10%	>10%	Severe	High Plenum
(No)	<10%	<10%	<10%	Heavy	Mod Duct
	> 5%	> 5%	> 5%	Mod	~~Low~~ Vert. Shaft
	< 5%	< 5%	< 5%	~~Light~~	None
	~~None~~	None	~~None~~	None	

Surface Texture	Thermal Expansion	Accessibility	Maint. Custodial	Barriers	Damage Potential
Rough	High	High	High	Yes	High
~~Med~~	~~Mod~~	~~Mod~~	Mod	~~No~~	Mod
Smooth	Low	Low	~~Low~~	Perm	~~Low~~
	None	None	None	Temp	None

Average Daily Occupants ____

Duration of use ____ Hr/Day ____ Days/Yr

HVAC Systems Type:

- ☐ FORCED AIR
- ☐ HOT WATER ONLY
- ☐ CHILLED WATER ONLY
- ☐ HOT / CHILLED WATER
- ☐ NO HVAC

Assessment:

- ☐ DAMAGED OR SIGNIFICANTLY DAMAGED THERMAL INSULATION
- ☐ DAMAGED FRIABLE SURFACING MATERIAL
- ☐ SIGNIFICANTLY DAMAGED FRIABLE SURFACING MATERIAL
- ☐ DAMAGED OR SIGNIFICANTLY DAMAGED FRIABLE MISC. MATERIAL
- ☑ ACBM WITH POTENTIAL FOR DAMAGE
- ☐ ACBM WITH POTENTIAL FOR SIGNIFICANT DAMAGE
- ☐ ANY REMAINING FRIABLE ACBM OR SUSPECT ACBM

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PICKERING ENVIRONMENTAL CONSULTANTS

HOMOGENEOUS AREA DATA SHEET

DATE 10-22-92 HOMOGENEOUS AREA # 07

PROJECT NAME & NO. JAX COE - VARIOUS MATERIAL DESC. MECH ROOM PIPE JOINT LAGGING

BUILDING NAME & NO. CR LAYTON G'VILLE ROOM NO./ LOCATION MECH ROOM

INSPECTOR (1) J. RHODES INSPECTOR (2) C. CRAFT

Material Type	Depth To Substrate	Material Description	Estimated Amounts	Material Cond.
Surfacing ____	1/2"	Key ____	Sq. Ft. ____	Excellent ✓
Thermal ✓		Comments:	Lin. Ft. ____	Very Good ____
Misc. ____		____	Number ____	Good ____
		____	Number (Fittings) 40	Fair ____
				Poor ____

Building Description:	Sample Numbers	Results
	GAZ-07-01	ND
	GAZ-07-02	5AM TR-Cr
	GAZ-07-03	ND

Friable	Physical Damage	Water Damage	Deterioration Delamination	Vibration	Air Flow
Yes	>10%	>10%	>10%	Severe	High Plenum
(No)	<10%	<10%	<10%	Heavy	Mod Duct
	> 5%	> 5%	> 5%	Mod	~~Low~~ Vert. Shaft
	< 5%	< 5%	< 5%	~~Light~~	None
	~~None~~	~~None~~	~~None~~	None	

Surface Texture	Thermal Expansion	Accessibility	Maint. Custodial	Barriers	Damage Potential
Rough	High	High	High	Yes	High
~~Med~~	~~Mod~~	~~Mod~~	Mod	~~No~~	Mod
Smooth	Low	Low	~~Low~~	Perm	~~Low~~
	None	None	None	Temp	None

Average Daily Occupants	Duration of use
1	Hr/Day 1
	Days/Yr: 40

HVAC Systems Type:

- ☐ FORCED AIR
- ☐ HOT WATER ONLY
- ☐ CHILLED WATER ONLY
- ☐ HOT / CHILLED WATER
- ☒ NO HVAC

Assessment:

- ☐ DAMAGED OR SIGNIFICANTLY DAMAGED THERMAL INSULATION
- ☐ DAMAGED FRIABLE SURFACING MATERIAL
- ☐ SIGNIFICANTLY DAMAGED FRIABLE SURFACING MATERIAL
- ☐ DAMAGED OR SIGNIFICANTLY DAMAGED FRIABLE MISC. MATERIAL
- ☒ ACBM WITH POTENTIAL FOR DAMAGE
- ☐ ACBM WITH POTENTIAL FOR SIGNIFICANT DAMAGE
- ☐ ANY REMAINING FRIABLE ACBM OR SUSPECT ACBM

FL 005 #140274F

PICKERING ENVIRONMENTAL CONSULTANTS

HOMOGENEOUS AREA DATA SHEET

DATE 10-22-92 HOMOGENEOUS AREA # 08

PROJECT NAME & NO. JAX COE - Various MATERIAL DESC. SINK SOUND PROOFING INSIDE

BUILDING NAME & NO. CB LAYTON GVILLE ROOM NO./ LOCATION KITCHEN

INSPECTOR (1) J. RHOADS INSPECTOR (2) C. CRAIG

Material Type	Depth To Substrate	Material Description	Estimated Amounts	Material Cond.
Surfacing ____	1/16	Key ____	Sq. Ft. 12	Excellent ____
Thermal ____		Comments: ____	Lin. Ft. ____	Very Good ____
Misc. ✓			Number ____	Good ✓
			Number (Fittings) ____	Fair ____
				Poor ____

Building Description:

Sample Numbers	Results
GA2-08-01	ND
GA2-08-02	ND
GA2-08-03	ND

Friable	Physical Damage	Water Damage	Deterioration Delamination	Vibration	Air Flow
Yes	>10%	>10%	>10%	Severe	High Plenum
(No)	<10%	<10%	<10%	Heavy	Mod Duct
	> 5%	> 5%	> 5%	(Mod)	~~Low~~ Vert. Shaft
	< 5%	< 5%	< 5%	~~Low~~	None
	~~None~~	~~None~~	~~None~~	None	

Surface Texture	Thermal Expansion	Accessibility	Maint. Custodial	Barriers	Damage Potential
~~Rough~~	High	High	High	Yes	High
Med	~~Mod~~	~~Mod~~	Mod	~~No~~	Mod
Smooth	Low	Low	~~Low~~	Perm	~~Low~~
	None	None	None	Temp	None

Average Daily Occupants 10

Duration of use

Hr/Day ____

Days/Yr ____

HVAC Systems Type:

- ☐ FORCED AIR
- ☐ HOT WATER ONLY
- ☐ CHILLED WATER ONLY
- ☐ HOT / CHILLED WATER
- ☐ NO HVAC

Assessment:

- ☐ DAMAGED OR SIGNIFICANTLY DAMAGED THERMAL INSULATION
- ☐ DAMAGED FRIABLE SURFACING MATERIAL
- ☐ SIGNIFICANTLY DAMAGED FRIABLE SURFACING MATERIAL
- ☐ DAMAGED OR SIGNIFICANTLY DAMAGED FRIABLE MISC. MATERIAL
- ☐ ACBM WITH POTENTIAL FOR DAMAGE
- ☐ ACBM WITH POTENTIAL FOR SIGNIFICANT DAMAGE
- ☑ ANY REMAINING FRIABLE ACBM OR SUSPECT ACBM

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PICKERING ENVIRONMENTAL CONSULTANTS

HOMOGENEOUS AREA DATA SHEET

DATE 10-22-92
PROJECT NAME & NO. USA COE - VARIOUS
BUILDING NAME & NO. CG LAYTON G'VILLE
INSPECTOR (1) J. Rhodes

HOMOGENEOUS AREA # 001
MATERIAL DESC. GASKET MATERIAL
ROOM NO./ LOCATION AHUS VAULT (ADDITION)
INSPECTOR (2) C. Craig

Material Type	Depth To Substrate	Material Description	Estimated Amounts	Material Cond.
Surfacing ____	1/8"	Key ____	Sq. Ft. ____ Number	Excellent ____
Thermal ____		Comments:	Lin. Ft. 24 (Fittings)	Very Good ____
Misc. ✓		____	Number ____ ____	Good ✓
		____		Fair ____
				Poor ____

Building Description:

Sample Numbers	Results
GA2-09-01	65 ch

Friable	Physical Damage	Water Damage	Deterioration Delamination	Vibration	Air Flow
Yes	>10%	>10%	>10%	Severe	High Plenum
(No)	<10%	<10%	<10%	Heavy	Mod Duct
	> 5%	> 5%	> 5%	Mod	Low Vert. Shaft
	< 5%	< 5%	< 5%	(Ligh)	(None)
	(None)	(None)	(None)	None	

Surface Texture	Thermal Expansion	Accessibility	Maint. Custodial	Barriers	Damage Potential
Rough	High	(High)	High	Yes	High
(Med)	Mod	Mod	Mod	(No)	Mod
Smooth	(Low)	Low	(Low)	Perm	(Low)
	None	None	None	Temp	None

Average Daily Occupants: 10

Duration of use: ____ Hr/Day ____ Days/Yr: ____

HVAC Systems Type:
- ☐ FORCED AIR
- ☐ HOT WATER ONLY
- ☐ CHILLED WATER ONLY
- ☐ HOT / CHILLED WATER
- ☐ NO HVAC

Assessment:
- ☐ DAMAGED OR SIGNIFICANTLY DAMAGED THERMAL INSULATION
- ☐ DAMAGED FRIABLE SURFACING MATERIAL
- ☐ SIGNIFICANTLY DAMAGED FRIABLE SURFACING MATERIAL
- ☐ DAMAGED OR SIGNIFICANTLY DAMAGED FRIABLE MISC. MATERIAL
- ☐ ACBM WITH POTENTIAL FOR DAMAGE
- ☐ ACBM WITH POTENTIAL FOR SIGNIFICANT DAMAGE
- ✓ ANY REMAINING FRIABLE ACBM OR SUSPECT ACBM

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PICKERING ENVIRONMENTAL CONSULTANTS

HOMOGENEOUS AREA DATA SHEET

DATE 10-22-92 HOMOGENEOUS AREA # 10

PROJECT NAME & NO. JAX. COE - VARIOUS MATERIAL DESC. BUILT-UP ROOFING MAT'L

BUILDING NAME & NO. CR LAYTON C'VILLE ROOM NO./ LOCATION ROOF

INSPECTOR (1) J. Rhodes INSPECTOR (2) C. Craig

Material Type	Depth To Substrate	Material Description	Estimated Amounts	Material Cond.
Surfacing ✓	2"+6"	Key	Sq. Ft. 12,500	Excellent
Thermal		Comments:	Lin. Ft.	Very Good
Misc.			Number	Good ✓
			Number (Fittings)	Fair
				Poor

Building Description:

Sample Numbers	Results
GAZ-10-01	ND
GAZ-10-02	ND
GAZ-10-03	ND
GAZ-10-04	ND

Friable	Physical Damage	Water Damage	Deterioration Delamination	Vibration	Air Flow
Yes	>10%	>10%	>10%	Severe	High Plenum
(No)	<10%	<10%	<10%	Heavy	(Mod) Duct
	> 5%	> 5%	> 5%	Mod	Low Vert. Shaft
	< 5%	< 5%	(< 5%)	(Light)	None
	(None)	(None)	None	None	

Surface Texture	Thermal Expansion	Accessibility	Maint. Custodial	Barriers	Damage Potential
(Rough)	High	High	High	Yes	High
Med	(Mod)	(Mod)	Mod	(No)	Mod
Smooth	Low	Low	(Low)	Perm	(Low)
	None	None	None	Temp	None

Average Daily Occupants	Duration of use
	Hr/Day
	Days/Yr

HVAC Systems Type:

- ☐ FORCED AIR
- ☐ HOT WATER ONLY
- ☐ CHILLED WATER ONLY
- ☐ HOT / CHILLED WATER
- ☐ NO HVAC

Assessment:

- ☐ DAMAGED OR SIGNIFICANTLY DAMAGED THERMAL INSULATION
- ☐ DAMAGED FRIABLE SURFACING MATERIAL
- ☐ SIGNIFICANTLY DAMAGED FRIABLE SURFACING MATERIAL
- ☐ DAMAGED OR SIGNIFICANTLY DAMAGED FRIABLE MISC. MATERIAL
- ☐ ACBM WITH POTENTIAL FOR DAMAGE
- ☐ ACBM WITH POTENTIAL FOR SIGNIFICANT DAMAGE
- ☑ ANY REMAINING FRIABLE ACBM OR SUSPECT ACBM

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PICKERING ENVIRONMENTAL CONSULTANTS

HOMOGENEOUS AREA DATA SHEET

DATE 10-22-92 HOMOGENEOUS AREA # 11

PROJECT NAME & NO. JAX COE - VARIOUS MATERIAL DESC. Roof Flashing Mate

BUILDING NAME & NO. CR LAYTON GIVICE ROOM NO./ LOCATION Roof

INSPECTOR (1) J. Rhodes INSPECTOR (2) C. Craig

Material Type	Depth To Substrate	Material Description	Estimated Amounts	Material Cond.
Surfacing ✓	1"	Key	Sq. Ft. 700	Excellent
Thermal		Comments:	Lin. Ft.	Very Good
Misc.			Number	Number (Fittings)	Good ✓
				Fair
				Poor

Building Description:

Sample Numbers	Results
GA2-11-01	TAN MAT ~~FRIABLE~~ NO BLACK SCR
GA2-11-02	TAN MAT ND BLACK SCR
GA2-11-01-QC	ND

Friable	Physical Damage	Water Damage	Deterioration Delamination	Vibration	Air Flow
Yes	>10%	>10%	>10%	Severe	High Plenum
~~No~~	<10%	<10%	<10%	Heavy	~~Mod~~ Duct
	> 5%	> 5%	> 5%	Mod	Low Vert. Shaft
	< 5%	< 5%	< 5%	~~Light~~	None
	~~None~~	~~None~~	~~None~~	None	

Surface Texture	Thermal Expansion	Accessibility	Maint. Custodial	Barriers	Damage Potential
~~Rough~~	High	High	High	Yes	High
Med	~~Mod~~	~~Mod~~	Mod	~~No~~	Mod
Smooth	Low	Low	~~Low~~	Perm	~~Low~~
	None	None	None	Temp	None

Average Daily Occupants

Duration of use ____ Hr/Day ____ Days/Yr

HVAC Systems Type:

- ☐ FORCED AIR
- ☐ HOT WATER ONLY
- ☐ CHILLED WATER ONLY
- ☐ HOT / CHILLED WATER
- ☐ NO HVAC

Assessment:

- ☐ DAMAGED OR SIGNIFICANTLY DAMAGED THERMAL INSULATION
- ☐ DAMAGED FRIABLE SURFACING MATERIAL
- ☐ SIGNIFICANTLY DAMAGED FRIABLE SURFACING MATERIAL
- ☐ DAMAGED OR SIGNIFICANTLY DAMAGED FRIABLE MISC. MATERIAL
- ☐ ACBM WITH POTENTIAL FOR DAMAGE
- ☐ ACBM WITH POTENTIAL FOR SIGNIFICANT DAMAGE
- ☑ ANY REMAINING FRIABLE ACBM OR SUSPECT ACBM

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PICKERING ENVIRONMENTAL CONSULTANTS

HOMOGENEOUS AREA DATA SHEET

DATE 10-22-92 HOMOGENEOUS AREA # 12

PROJECT NAME & NO. JAX COE - VARIOUS MATERIAL DESC. 2x4 CEILING TILE

BUILDING NAME & NO. CR LAYTON G'VILLE ROOM NO./ LOCATION THROUGHT

INSPECTOR (1) J. Rhodes INSPECTOR (2) C. CRAIG

Material Type	Depth To Substrate	Material Description	Estimated Amounts	Material Cond.
Surfacing ____	1/2"	Key ____	Sq. Ft. 1700	Excellent ____
Thermal ____		Comments: ____	Lin. Ft. ____	Very Good ____
Misc. ✓		____	Number ____	Good ✓
			Number (Fittings) ____	Fair ____
				Poor ____

Building Description:

Sample Numbers	Results
GA2-12-01	ND
GA2-12-02	ND
GA2-12-03	ND

Friable	Physical Damage	Water Damage	Deterioration Delamination	Vibration	Air Flow
Yes	>10%	>10%	>10%	Severe	High Plenum
(NO)	<10%	<10%	<10%	Heavy	Mod Duct
	> 5%	> 5%	> 5%	Mod	(Low) Vert. Shaft
	< 5%	< 5%	< 5%	~~Light~~	None
	~~None~~	~~None~~	(None)	None	

Surface Texture	Thermal Expansion	Accessibility	Maint. Custodial	Barriers	Damage Potential
(Rough)	High	High	High	Yes	High
Med	Mod	(Mod)	Mod	(No)	Mod
Smooth	~~Low~~	Low	~~Low~~	Perm	~~Low~~
	None	None	None	Temp	None

Average Daily Occupants	Duration of use
6	____ Hr/Day ____ Days/Yr: ____

HVAC Systems Type:

- ☐ FORCED AIR
- ☐ HOT WATER ONLY
- ☐ CHILLED WATER ONLY
- ☐ HOT / CHILLED WATER
- ☐ NO HVAC

Assessment:

- ☐ DAMAGED OR SIGNIFICANTLY DAMAGED THERMAL INSULATION
- ☐ DAMAGED FRIABLE SURFACING MATERIAL
- ☐ SIGNIFICANTLY DAMAGED FRIABLE SURFACING MATERIAL
- ☐ DAMAGED OR SIGNIFICANTLY DAMAGED FRIABLE MISC. MATERIAL
- ☐ ACBM WITH POTENTIAL FOR DAMAGE
- ☐ ACBM WITH POTENTIAL FOR SIGNIFICANT DAMAGE
- ☑ ANY REMAINING FRIABLE ACBM OR SUSPECT ACBM

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PICKERING ENVIRONMENTAL CONSULTANTS

HOMOGENEOUS AREA DATA SHEET

DATE 10-22-92
PROJECT NAME & NO. Jax Coe - Various
BUILDING NAME & NO. CR LAYTON G'VILLE
INSPECTOR (1) J. Rhodes

HOMOGENEOUS AREA # 13
MATERIAL DESC. Black 4" Cove Base
ROOM NO./ LOCATION ~~OFFICE~~ 1ST Floor ADDITN.
INSPECTOR (2) C. Craig

Material Type	Depth To Substrate	Material Description	Estimated Amounts		Material Cond.
Surfacing ____	1/16"	Key ____	Sq. Ft. ____	Number (Fittings)	Excellent ____
Thermal ____		Comments:	Lin. Ft. 200		Very Good ____
Misc. ✓		____	Number ____	____	Good ✓
		____			Fair ____
					Poor ____

Building Description:

Sample Numbers	Results
GAZ-13-01	ND
GAZ-13-02	ND
GAZ-13-03	ND

Friable	Physical Damage	Water Damage	Deterioration Delamination	Vibration	Air Flow
Yes	>10%	>10%	>10%	Severe	High Plenum
(No)	<10%	<10%	<10%	Heavy	Mod Duct
	> 5%	> 5%	> 5%	Mod	~~Low~~ Vert. Shaft
	< 5%	< 5%	< 5%	~~Light~~	None
	~~None~~	~~None~~	~~None~~	None	

Surface Texture	Thermal Expansion	Accessibility	Maint. Custodial	Barriers	Damage Potential
Rough	High	~~High~~	High	(Yes)	High
Med	Mod	Mod	~~Mod~~	No	Mod
~~Smooth~~	~~Low~~	Low	Low	Perm	~~Low~~
	None	None	None	(Temp)	None

Average Daily Occupants	Duration of use
____	____ Hr/Day ____ Days/Yr: ____

HVAC Systems Type:
- ☐ FORCED AIR
- ☐ HOT WATER ONLY
- ☐ CHILLED WATER ONLY
- ☐ HOT / CHILLED WATER
- ☐ NO HVAC

Assessment:
- ☐ DAMAGED OR SIGNIFICANTLY DAMAGED THERMAL INSULATION
- ☐ DAMAGED FRIABLE SURFACING MATERIAL
- ☐ SIGNIFICANTLY DAMAGED FRIABLE SURFACING MATERIAL
- ☐ DAMAGED OR SIGNIFICANTLY DAMAGED FRIABLE MISC. MATERIAL
- ☐ ACBM WITH POTENTIAL FOR DAMAGE
- ☐ ACBM WITH POTENTIAL FOR SIGNIFICANT DAMAGE
- ☑ ANY REMAINING FRIABLE ACBM OR SUSPECT ACBM

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PICKERING ENVIRONMENTAL CONSULTANTS

HOMOGENEOUS AREA DATA SHEET

DATE 10-22-92 HOMOGENEOUS AREA # 14

PROJECT NAME & NO. JAX COE - VARIOUS MATERIAL DESC. BROWN 4" COVE BASE

BUILDING NAME & NO. CR LAYTON GIVILLE ROOM NO./ LOCATION ORDERLY ROOM

INSPECTOR (1) J. Rhodes INSPECTOR (2) C. CRAIG

Material Type	Depth To Substrate	Material Description	Estimated Amounts	Material Cond.
Surfacing ____	1/16"	Key ____	Sq. Ft. ____	Excellent ____
Thermal ____		Comments: ____	Lin. Ft. 55	Very Good ____
Misc. ✓		____	Number ____	Good ____
			Number (Fittings) ____	Fair ____
				Poor ____

Building Description:

Sample Numbers	Results
GA2-14-01	ND
GA2-14-02	ND
GA2-14-03	ND

Friable	Physical Damage	Water Damage	Deterioration Delamination	Vibration	Air Flow
Yes	>10%	>10%	>10%	Severe	High Plenum
(No)	<10%	<10%	<10%	Heavy	Mod Duct
	> 5%	> 5%	> 5%	Mod	(Low) Vert. Shaft
	< 5%	< 5%	< 5%	~~Light~~	None
	~~None~~	(None)	(None)	None	

Surface Texture	Thermal Expansion	Accessibility	Maint. Custodial	Barriers	Damage Potential
Rough	High	~~High~~	High	Yes	High
Med	Mod	Mod	~~Mod~~	~~No~~	Mod
(Smooth)	~~Low~~	Low	Low	Perm	(Low)
	None	None	None	Temp	None

Average Daily Occupants ____

Duration of use ____ Hr/Day ____ Days/Yr: ✓

HVAC Systems Type:

- ☐ FORCED AIR
- ☐ HOT WATER ONLY
- ☐ CHILLED WATER ONLY
- ☐ HOT / CHILLED WATER
- ☐ NO HVAC

Assessment:

- ☐ DAMAGED OR SIGNIFICANTLY DAMAGED THERMAL INSULATION
- ☐ DAMAGED FRIABLE SURFACING MATERIAL
- ☐ SIGNIFICANTLY DAMAGED FRIABLE SURFACING MATERIAL
- ☐ DAMAGED OR SIGNIFICANTLY DAMAGED FRIABLE MISC. MATERIAL
- ☐ ACBM WITH POTENTIAL FOR DAMAGE
- ☐ ACBM WITH POTENTIAL FOR SIGNIFICANT DAMAGE
- ☑ ANY REMAINING FRIABLE ACBM OR SUSPECT ACBM

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PICKERING ENVIRONMENTAL CONSULTANTS

HOMOGENEOUS AREA DATA SHEET

DATE 10-22-92 HOMOGENEOUS AREA # 15

PROJECT NAME & NO. JOE COE - VACIOUS MATERIAL DESC. WINDOW PUTTY

BUILDING NAME & NO. CR WAYNE GIVILLE ROOM NO./ LOCATION WINDOWS

INSPECTOR (1) J. Rhodes INSPECTOR (2) C. Crain

Material Type	Depth To Substrate	Material Description	Estimated Amounts	Material Cond.
Surfacing ____	1/4"	Key ____	Sq. Ft. ____ Number (Fittings)	Excellent ____
Thermal ____		Comments: ____	Lin. Ft. 4680 ____	Very Good ____
Misc. ✓		____	Number ____ ____	Good ✓
				Fair ____
				Poor ____

Building Description:

Sample Numbers	Results
GAZ-15-01	ND
GAZ-15-02	ND
GAZ-15-03	ND

Friable	Physical Damage	Water Damage	Deterioration Delamination	Vibration	Air Flow
Yes	>10%	>10%	>10%	Severe	High Plenum
(No)	<10%	<10%	<10%	Heavy	Mod Duct
	> 5%	> 5%	> 5%	Mod	(Low) Vert. Shaft
	< 5%	< 5%	< 5%	~~Light~~	None
	~~None~~	~~None~~	~~None~~	None	

Surface Texture	Thermal Expansion	Accessibility	Maint. Custodial	Barriers	Damage Potential
Rough	High	High	High	Yes	High
Med	~~Mod~~	Mod	Mod	~~No~~	Mod
~~Smooth~~	Low	~~Low~~	~~Low~~	Perm	~~Low~~
	None	None	None	Temp	None

Average Daily Occupants: OUTSIDE

Duration of use: Hr/Day ____ Days/Yr ____

HVAC Systems Type:

- ☐ FORCED AIR
- ☐ HOT WATER ONLY
- ☐ CHILLED WATER ONLY
- ☐ HOT / CHILLED WATER
- ☐ NO HVAC

Assessment:

- ☐ DAMAGED OR SIGNIFICANTLY DAMAGED THERMAL INSULATION
- ☐ DAMAGED FRIABLE SURFACING MATERIAL
- ☐ SIGNIFICANTLY DAMAGED FRIABLE SURFACING MATERIAL
- ☐ DAMAGED OR SIGNIFICANTLY DAMAGED FRIABLE MISC. MATERIAL
- ☐ ACBM WITH POTENTIAL FOR DAMAGE
- ☐ ACBM WITH POTENTIAL FOR SIGNIFICANT DAMAGE
- ☑ ANY REMAINING FRIABLE ACBM OR SUSPECT ACBM

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PICKERING ENVIRONMENTAL CONSULTANTS

HOMOGENEOUS AREA DATA SHEET

DATE 10-22-92 HOMOGENEOUS AREA # 16

PROJECT NAME & NO. Jax COE - Various MATERIAL DESC. 12 x 12 VAT (LT. BROWN) & MASTIC

BUILDING NAME & NO. CR Layton Gville ROOM NO./ LOCATION NEW ADDITION & VARIOUS OFFICES

INSPECTOR (1) J. Rhodes INSPECTOR (2) C. Cerda

Material Type	Depth To Substrate	Material Description	Estimated Amounts	Material Cond.
Surfacing ____	11 & 8"	Key ____	Sq. Ft. 4,000 Number (Fittings)	Excellent ____
Thermal ____		Comments: ____	Lin. Ft. ____	Very Good ✓
Misc. ✓		____	Number ____ ____	Good ____
				Fair ____
				Poor ____

Building Description:

Sample Numbers	Results
GAZ-16-01 6"ch	TILE ND - MASTIC 30"ch
GAZ-16-02 T2	TILE-ND MAST 30 ch
GAZ-16-03	ND

Friable	Physical Damage	Water Damage	Deterioration Delamination	Vibration	Air Flow
Yes	>10%	>10%	>10%	Severe	High Plenum
~~No~~	<10%	<10%	<10%	Heavy	Mod Duct
	> 5%	> 5%	> 5%	Mod	~~Low~~ Vert. Shaft
	< 5%	< 5%	< 5%	~~Light~~	None
	~~None~~	~~None~~	~~None~~	None	

Surface Texture	Thermal Expansion	Accessibility	Maint. Custodial	Barriers	Damage Potential
Rough	High	~~High~~	High	~~Yes~~	High
Med	Mod	Mod	~~Mod~~	No	Mod
~~Smooth~~	~~Low~~	Low	Low	Perm	~~Low~~
	None	None	None	~~Temp~~	None

Average Daily Occupants	Duration of use
____	Hr/Day ____
	Days/Yr: ____

HVAC Systems Type

- [x] FORCED AIR
- [ ] HOT WATER ONLY
- [ ] CHILLED WATER ONLY
- [ ] HOT / CHILLED WATER
- [ ] NO HVAC

Assessment:

- [ ] DAMAGED OR SIGNIFICANTLY DAMAGED THERMAL INSULATION
- [ ] DAMAGED FRIABLE SURFACING MATERIAL
- [ ] SIGNIFICANTLY DAMAGED FRIABLE SURFACING MATERIAL
- [ ] DAMAGED OR SIGNIFICANTLY DAMAGED FRIABLE MISC. MATERIAL
- [ ] ACBM WITH POTENTIAL FOR DAMAGE
- [ ] ACBM WITH POTENTIAL FOR SIGNIFICANT DAMAGE
- [x] ANY REMAINING FRIABLE ACBM OR SUSPECT ACBM

FL 005 #140274F

PICKERING ENVIRONMENTAL CONSULTANTS

HOMOGENEOUS AREA DATA SHEET

DATE 10-22-97 HOMOGENEOUS AREA # 17

PROJECT NAME & NO. JAX COE - VARIOUS MATERIAL DESC. 9x9 BLACK VAT & MASTIC

BUILDING NAME & NO CR LAYTON GVILLE ROOM NO./ LOCATION FIRING RANGE

INSPECTOR (1) J. Rhodes INSPECTOR (2) C. Crain

Material Type	Depth To Substrate	Material Description	Estimated Amounts	Material Cond.
Surfacing ____ Thermal ____ Misc. ✓	1/16"	Key ____ Comments: ____	Sq. Ft. 3250 Lin. Ft. ____ Number ____ Number (Fittings) ____	Excellent ____ Very Good ____ Good ✓ Fair ____ Poor ____

Building Description:	Sample Numbers	Results
	GAZ-17-01	9-Ch
	GAZ-17-02	8-Ch
	GAZ-17-03	11-Ch
		TSI & Mastic

Friable	Physical Damage	Water Damage	Deterioration Delamination	Vibration	Air Flow
Yes ~~No~~	>10% <10% > 5% (< 5%) ~~None~~	>10% <10% > 5% < 5% ~~None~~	>10% <10% > 5% (< 5%) None	Severe Heavy Mod ~~Light~~ None	High Plenum Mod Duct ~~Low~~ Vert. Shaft None

Surface Texture	Thermal Expansion	Accessibility	Maint. Custodial	Barriers	Damage Potential
Rough Med ~~Smooth~~	High Mod ~~Low~~ None	~~High~~ Mod Low None	High ~~Mod~~ ~~Low~~ None	~~Yes~~ No Perm ~~Temp~~	High Mod ~~Low~~ None

Average Daily Occupants ____

Duration of use ____ Hr/Day ____ Days/Yr: ____

HVAC Systems Type:

- ☐ FORCED AIR
- ☐ HOT WATER ONLY
- ☐ CHILLED WATER ONLY
- ☐ HOT / CHILLED WATER
- ☐ NO HVAC

Assessment:

- ☐ DAMAGED OR SIGNIFICANTLY DAMAGED THERMAL INSULATION
- ☐ DAMAGED FRIABLE SURFACING MATERIAL
- ☐ SIGNIFICANTLY DAMAGED FRIABLE SURFACING MATERIAL
- ☐ DAMAGED OR SIGNIFICANTLY DAMAGED FRIABLE MISC. MATERIAL
- ☑ ACBM WITH POTENTIAL FOR DAMAGE
- ☐ ACBM WITH POTENTIAL FOR SIGNIFICANT DAMAGE
- ☐ ANY REMAINING FRIABLE ACBM OR SUSPECT ACBM

FL 005 a#P40274F

PICKERING ENVIRONMENTAL CONSULTANTS

HOMOGENEOUS AREA DATA SHEET

DATE 10-22-92
HOMOGENEOUS AREA # 18
PROJECT NAME & NO. JAX COE - VARIOUS
MATERIAL DESC. 9x9 VAT (BROWN) & MASTIC
BUILDING NAME & NO. C12 LAYTON-GIVILE
ROOM NO./ LOCATION THROUGHOUT
INSPECTOR (1) J. Rhodes
INSPECTOR (2) C. Creamer

Material Type	Depth To Substrate	Material Description	Estimated Amounts	Material Cond.
Surfacing ____ Thermal ____ Misc. ✓	N/A	Key ____ Comments: ____	Sq. Ft. 1800 Lin. Ft. ____ Number ____ Number (Fittings) ____	Excellent ____ Very Good ____ Good ✓ Fair ____ Poor ____

Building Description:

Sample Numbers	Results
GA2-18-01	26-Ch
GA2-18-02	26-Ch
GA2-18-03	26-Ch
GA2-18-01-QC	11-Ch

Friable	Physical Damage	Water Damage	Deterioration Delamination	Vibration	Air Flow
Yes (No)	>10% <10% > 5% (< 5%) None	>10% <10% > 5% < 5% (None)	>10% <10% > 5% (< 5%) None	Severe Heavy Mod (Light) None	High Plenum Mod Duct (Low) Vert. Shaft None

Surface Texture	Thermal Expansion	Accessibility	Maint. Custodial	Barriers	Damage Potential
Rough Med (Smooth)	High Mod (Low) None	(High) Mod Low None	High (Mod) Low None	(Yes) No Perm (Temp)	High Mod (Low) None

Average Daily Occupants ____

Duration of use
Hr/Day ____
Days/Yr: ____

HVAC Systems Type:
- [x] FORCED AIR
- [ ] HOT WATER ONLY
- [ ] CHILLED WATER ONLY
- [ ] HOT / CHILLED WATER
- [ ] NO HVAC

Assessment:
- [ ] DAMAGED OR SIGNIFICANTLY DAMAGED THERMAL INSULATION
- [ ] DAMAGED FRIABLE SURFACING MATERIAL
- [ ] SIGNIFICANTLY DAMAGED FRIABLE SURFACING MATERIAL
- [ ] DAMAGED OR SIGNIFICANTLY DAMAGED FRIABLE MISC. MATERIAL
- [x] ACBM WITH POTENTIAL FOR DAMAGE
- [ ] ACBM WITH POTENTIAL FOR SIGNIFICANT DAMAGE
- [ ] ANY REMAINING FRIABLE ACBM OR SUSPECT ACBM

FL 005 a#140274F

PICKERING ENVIRONMENTAL CONSULTANTS

HOMOGENEOUS AREA DATA SHEET

DATE 10-22-92 HOMOGENEOUS AREA # 19

PROJECT NAME & NO. Jax CoE - Various MATERIAL DESC. 12x12 VAT (GREEN) & MASTIC

BUILDING NAME & NO. CR Hayden Gville ROOM NO./ LOCATION ~~Rooms~~ 106 & 209

INSPECTOR (1) J. Rhodes INSPECTOR (2) VARIOUS CLASSROOMS

Material Type	Depth To Substrate	Material Description	Estimated Amounts	Material Cond.
Surfacing ____	1/16"	Key ____	Sq. Ft. 720	Excellent ____
Thermal ____		Comments:	Lin. Ft. ____	Very Good ____
Misc. ✓		____	Number ____	Good ✓
		____	Number (Fittings) ____	Fair ____
				Poor ____

Building Description:

Sample Numbers	Results
GAZ-19-01	6-Ch
GAZ-19-02	6-Ch
GAZ-19-03	5-Ch
____	Tile & Mastic

Friable	Physical Damage	Water Damage	Deterioration Delamination	Vibration	Air Flow
Yes	>10%	>10%	>10%	Severe	High Plenum
~~No~~	<10%	<10%	<10%	Heavy	Mod Duct
	> 5%	> 5%	> 5%	Mod	~~Low~~ Vert. Shaft
	< 5%	< 5%	< 5%	~~Light~~	None
	~~None~~	~~None~~	~~None~~	None	

Surface Texture	Thermal Expansion	Accessibility	Maint. Custodial	Barriers	Damage Potential
Rough	High	~~High~~	High	Yes	High
Med	Mod	Mod	Mod	~~No~~	Mod
~~Smooth~~	~~Low~~	Low	~~Low~~	Perm	~~Low~~
	None	None	None	Temp	None

Average Daily Occupants	Duration of use
____	Hr/Day ____
	Days/Yr: ____

HVAC Systems Type:

- ☐ FORCED AIR
- ☑ HOT WATER ONLY
- ☐ CHILLED WATER ONLY
- ☐ HOT / CHILLED WATER
- ☐ NO HVAC

Assessment:

- ☐ DAMAGED OR SIGNIFICANTLY DAMAGED THERMAL INSULATION
- ☐ DAMAGED FRIABLE SURFACING MATERIAL
- ☐ SIGNIFICANTLY DAMAGED FRIABLE SURFACING MATERIAL
- ☐ DAMAGED OR SIGNIFICANTLY DAMAGED FRIABLE MISC MATERIAL
- ☐ ACBM WITH POTENTIAL FOR DAMAGE
- ☐ ACBM WITH POTENTIAL FOR SIGNIFICANT DAMAGE
- ☑ ANY REMAINING FRIABLE ACBM OR SUSPECT ACBM

FL 005 asb #140274F

PICKERING ENVIRONMENTAL CONSULTANTS

HOMOGENEOUS AREA DATA SHEET

DATE 10-22-92 HOMOGENEOUS AREA # 20

PROJECT NAME & NO. JAX COE - VARIOUS MATERIAL DESC. 12 x 12 VAT (GREY)

BUILDING NAME & NO. CRLAYTON - GVILLE ROOM NO./ LOCATION

INSPECTOR (1) J. Rivers INSPECTOR (2) C. Craig

Material Type	Depth To Substrate	Material Description	Estimated Amounts		Material Cond.
Surfacing Thermal Misc. ✓	1/16"	Key Comments:	Sq. Ft. 225 Lin. Ft. Number	Number (Fittings)	Excellent Very Good ✓ Good Fair Poor

Building Description:

Sample Numbers	Results
GA2-20-01	ND Both TEM & PLM

Friable	Physical Damage	Water Damage	Deterioration Delamination	Vibration	Air Flow
Yes (No)	>10% <10% > 5% < 5% ~~None~~	>10% <10% > 5% < 5% ~~None~~	>10% <10% > 5% < 5% ~~None~~	Severe Heavy Mod ~~Light~~ None	High Plenum Mod Duct ~~Low~~ Vert. Shaft None

Surface Texture	Thermal Expansion	Accessibility	Maint. Custodial	Barriers	Damage Potential
Rough Med (Smooth)	High Mod ~~Low~~ None	~~High~~ Mod Low None	High ~~Mod~~ ~~Low~~ None	Yes ~~No~~ Perm Temp	High Mod ~~Low~~ None

Average Daily Occupants	Duration of use
	Hr/Day Days/Yr:

HVAC Systems Type:

- ☑ FORCED AIR
- ☐ HOT WATER ONLY
- ☐ CHILLED WATER ONLY
- ☐ HOT / CHILLED WATER
- ☐ NO HVAC

Assessment:

- ☐ DAMAGED OR SIGNIFICANTLY DAMAGED THERMAL INSULATION
- ☐ DAMAGED FRIABLE SURFACING MATERIAL
- ☐ SIGNIFICANTLY DAMAGED FRIABLE SURFACING MATERIAL
- ☐ DAMAGED OR SIGNIFICANTLY DAMAGED FRIABLE MISC. MATERIAL
- ☐ ACBM WITH POTENTIAL FOR DAMAGE
- ☐ ACBM WITH POTENTIAL FOR SIGNIFICANT DAMAGE
- ☑ ANY REMAINING FRIABLE ACBM OR SUSPECT ACBM

FL 005 AS#140274F

PICKERING ENVIRONMENTAL CONSULTANTS

HOMOGENEOUS AREA DATA SHEET

DATE 10-22-92 HOMOGENEOUS AREA # 21

PROJECT NAME & NO. Jax COE - VARIOUS MATERIAL DESC. 12x12 VAT (TAN) & MASTIC

BUILDING NAME & NO. CR LAYTON - G'VILLE ROOM NO./ LOCATION 109

INSPECTOR (1) L. RHODES INSPECTOR (2) C CRAIG

Material Type	Depth To Substrate	Material Description	Estimated Amounts	Material Cond.
Surfacing ____	1/16"	Key ____	Sq. Ft. 150	Excellent ____
Thermal ____		Comments:	Lin. Ft. ____	Very Good ✓
Misc. ✓		____	Number ____	Good ____
		____	Number (Fittings) ____	Fair ____
				Poor ____

Building Description:

Sample Numbers	Results
GA2-21-01 TR-Ch	ND-Tile
	30-Ch. Mastic

Friable	Physical Damage	Water Damage	Deterioration Delamination	Vibration	Air Flow
Yes	>10%	>10%	>10%	Severe	High Plenum
~~No~~	<10%	<10%	<10%	Heavy	Mod Duct
	> 5%	> 5%	> 5%	Mod	~~Low~~ Vert. Shaft
	< 5%	< 5%	< 5%	~~Light~~	None
	~~None~~	~~None~~	~~None~~	None	

Surface Texture	Thermal Expansion	Accessibility	Maint. Custodial	Barriers	Damage Potential
Rough	High	~~High~~	High	Yes	High
Med	Mod	Mod	Mod	~~No~~	Mod
~~Smooth~~	~~Low~~	Low	~~Low~~	Perm	Low
	None	None	None	Temp	None

Average Daily Occupants ____

Duration of use ____ Hr/Day ____ Days/Yr: ____

HVAC Systems Type:

- ☐ FORCED AIR
- ☐ HOT WATER ONLY
- ☐ CHILLED WATER ONLY
- ☐ HOT / CHILLED WATER
- ☐ NO HVAC

Assessment:

- ☐ DAMAGED OR SIGNIFICANTLY DAMAGED THERMAL INSULATION
- ☐ DAMAGED FRIABLE SURFACING MATERIAL
- ☐ SIGNIFICANTLY DAMAGED FRIABLE SURFACING MATERIAL
- ☐ DAMAGED OR SIGNIFICANTLY DAMAGED FRIABLE MISC. MATERIAL
- ☐ ACBM WITH POTENTIAL FOR DAMAGE
- ☐ ACBM WITH POTENTIAL FOR SIGNIFICANT DAMAGE
- ☑ ANY REMAINING FRIABLE ACBM OR SUSPECT ACBM

FL#9405466

PICKERING ENVIRONMENTAL CONSULTANTS

HOMOGENEOUS AREA DATA SHEET

DATE 10-22-92 HOMOGENEOUS AREA # 22

PROJECT NAME & NO. Jax Core - Various MATERIAL DESC. 12x12 VAT (WHITE)

BUILDING NAME & NO. CP Layout - Giwine ROOM NO./ LOCATION 206

INSPECTOR (1) L. Rhodes INSPECTOR (2) C. Craig

Material Type	Depth To Substrate	Material Description	Estimated Amounts		Material Cond.
Surfacing ____	1/16"	Key ____	Sq. Ft. 225	Number (Fittings)	Excellent ____
Thermal ____		Comments:	Lin. Ft. ____		Very Good ✓
Misc. ✓		____	Number ____	____	Good ____
		____			Fair ____
					Poor ____

Building Description:	Sample Numbers	Results
	GA2-22-01	ND
		Tile & Mastic

Friable	Physical Damage	Water Damage	Deterioration Delamination	Vibration	Air Flow
Yes	>10%	>10%	>10%	Severe	High Plenum
(No)	<10%	<10%	<10%	Heavy	Mod Duct
	> 5%	> 5%	> 5%	Mod	Low Vert. Shaft
	< 5%	< 5%	< 5%	Light	None
	(None)	(None)	(None)	None	

Surface Texture	Thermal Expansion	Accessibility	Maint. Custodial	Barriers	Damage Potential
Rough	High	(High)	High	Yes	High
Med	Mod	Mod	Mod	(No)	Mod
(Smooth)	(Low)	Low	(Low)	Perm	(Low)
	None	None	None	Temp	None

Average Daily Occupants	Duration of use	Assessment:
	____ Hr/Day	☐ DAMAGED OR SIGNIFICANTLY DAMAGED THERMAL INSULATION
	____ Days/Yr	☐ DAMAGED FRIABLE SURFACING MATERIAL
		☐ SIGNIFICANTLY DAMAGED FRIABLE SURFACING MATERIAL
		☐ DAMAGED OR SIGNIFICANTLY DAMAGED FRIABLE MISC. MATERIAL
		☐ ACBM WITH POTENTIAL FOR DAMAGE
		☐ ACBM WITH POTENTIAL FOR SIGNIFICANT DAMAGE
		☑ ANY REMAINING FRIABLE ACBM OR SUSPECT ACBM

HVAC Systems Type:

- ☐ FORCED AIR
- ☐ HOT WATER ONLY
- ☐ CHILLED WATER ONLY
- ☐ HOT / CHILLED WATER
- ☐ NO HVAC

FL ODS #140274F

PICKERING ENVIRONMENTAL CONSULTANTS

HOMOGENEOUS AREA DATA SHEET

DATE 10-22-92 HOMOGENEOUS AREA # 23

PROJECT NAME & NO. Jan Coe - Various MATERIAL DESC. Pipe insulation Jacket & Mastic

BUILDING NAME & NO. CR Layton-G'ville ROOM NO./ LOCATION 215 (2nd floor

INSPECTOR (1) J. Rhodes INSPECTOR (2) C. Craig

Material Type	Depth To Substrate	Material Description	Estimated Amounts		Material Cond.
Surfacing ____ Thermal ____ Misc. —	1/16"	Key ____ Comments:	Sq. Ft. ____ Lin. Ft. 20 Number ____	Number (Fittings) ____	Excellent ____ Very Good ____ Good — Fair ____ Poor ____

Building Description:	Sample Numbers	Results
	GAZ-23-01	15-Ch

Friable	Physical Damage	Water Damage	Deterioration Delamination	Vibration	Air Flow
Yes (No)	>10% <10% > 5% < 5% (None)	>10% <10% > 5% < 5% (None)	>10% <10% > 5% < 5% (None)	Severe Heavy (Mod) Light None	High Plenum Mod Duct (Low) Vert. Shaft None

Surface Texture	Thermal Expansion	Accessibility	Maint. Custodial	Barriers	Damage Potential
Rough (Mod) Smooth	High Mod (Low) None	(High) Mod Low None	High Mod (Low) None	Yes (No) Perm Temp.	High Mod (Low) None

Average Daily Occupants ____

Duration of use
Hr/Day ____
Days/Yr: ____

HVAC Systems Type:
- [ ] FORCED AIR
- [ ] HOT WATER ONLY
- [ ] CHILLED WATER ONLY
- [ ] HOT / CHILLED WATER
- [ ] NO HVAC

Assessment:
- [ ] DAMAGED OR SIGNIFICANTLY DAMAGED THERMAL INSULATION
- [ ] DAMAGED FRIABLE SURFACING MATERIAL
- [ ] SIGNIFICANTLY DAMAGED FRIABLE SURFACING MATERIAL
- [ ] DAMAGED OR SIGNIFICANTLY DAMAGED FRIABLE MISC. MATERIAL
- [x] ACBM WITH POTENTIAL FOR DAMAGE
- [ ] ACBM WITH POTENTIAL FOR SIGNIFICANT DAMAGE
- [ ] ANY REMAINING FRIABLE ACBM OR SUSPECT ACBM

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PICKERING ENVIRONMENTAL CONSULTANTS

HOMOGENEOUS AREA DATA SHEET

DATE 10-22-92

PROJECT NAME & NO. Jax Coe - Various

BUILDING NAME & NO. CL Layton

INSPECTOR (1) J Rhodes

HOMOGENEOUS AREA # 24

MATERIAL DESC. 2'x4' Drop Ang (large fissures)

ROOM NO./ LOCATION Room #100

INSPECTOR (2) C Craig

Material Type	Depth To Substrate	Material Description	Estimated Amounts		Material Cond.
Surfacing ____ Thermal ____ Misc. ✓	1/2"	Key ____ Comments:	Sq. Ft. 280 Lin. Ft. ____ Number ____	Number (Fittings) ____	Excellent ____ Very Good ✓ Good ____ Fair ____ Poor ____

Building Description:	Sample Numbers	Results
	GA2-24-01	ND

Friable	Physical Damage	Water Damage	Deterioration Delamination	Vibration	Air Flow
Yes No	>10% <10% > 5% < 5% None	>10% <10% > 5% < 5% None	>10% <10% > 5% < 5% None	Severe Heavy Mod Light None	High / Plenum Mod / Duct Low / Vert. Shaft None

Surface Texture	Thermal Expansion	Accessibility	Maint. Custodial	Barriers	Damage Potential
Rough Med Smooth	High Mod Low None	High Mod Low None	High Mod Low None	Yes No Perm Temp	High Mod Low None

Average Daily Occupants

Duration of use

Hr/Day ____

Days/Yr: ____

SNA 4

HVAC Systems Type:

- [ ] FORCED AIR
- [ ] HOT WATER ONLY
- [ ] CHILLED WATER ONLY
- [ ] HOT / CHILLED WATER
- [ ] NO HVAC

Assessment:

- [ ] DAMAGED OR SIGNIFICANTLY DAMAGED THERMAL INSULATION
- [ ] DAMAGED FRIABLE SURFACING MATERIAL
- [ ] SIGNIFICANTLY DAMAGED FRIABLE SURFACING MATERIAL
- [ ] DAMAGED OR SIGNIFICANTLY DAMAGED FRIABLE MISC MATERIAL
- [ ] ACBM WITH POTENTIAL FOR DAMAGE
- [ ] ACBM WITH POTENTIAL FOR SIGNIFICANT DAMAGE
- [x] ANY REMAINING FRIABLE ACBM OR SUSPECT ACBM

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Pickering Environmental

Sheet ___ of ___

Date: 10-22-02
Surveyor: Rhodes / Geary
TPF Proj #: 11962.01
Client Proj #: ___

Building: CR Layton
Address: Gainesville
___
Client Contact: ___

SAMPLE NUMBER	LOCATION	TYPE OF MATERIAL	ACCESSIBILITY	PHYSICAL CONDITION OF AREA SAMPLED	FRIABILITY OF MATERIAL SAMPLED	ACTIVITY OF AREA SAMPLED PEOPLE TRAFFIC	WATER DAMAGE
GA2-LBP-01	Room ALL INTERIOR WALLS Space COLOR: LIGHT TAN Floor ___		___ HIGH ___ MOD ___ LOW	___ GOOD ___ POOR	___ HIGH ___ MOD ___ LOW ___ NON	___ HIGH ___ MOD ___ LOW	___ YES ___ NO
CONTENT	ALL INTERIOR WALLS LIGHT TAN ND	COMMENTS: THIS IS THE DOMINANT COLOR OF THE INTERIOR					
GA2-LBP-02	Room ALL INTERIOR WALLS Space COLOR: BROWN Floor ___		___ HIGH ___ MOD ___ LOW	___ GOOD ___ POOR	___ HIGH ___ MOD ___ LOW ___ NON	___ HIGH ___ MOD ___ LOW	___ YES ___ NO
CONTENT	ALL INTERIOR WALLS <1.5	COMMENTS: INTERIOR WALLS - LOWER PORTION					
GA2-LBP-03	Room DOORS Space INTERIOR SIDE OF DOOR Floor ___		___ HIGH ___ MOD ___ LOW	___ GOOD ___ POOR	___ HIGH ___ MOD ___ LOW ___ NON	___ HIGH ___ MOD ___ LOW	___ YES ___ NO
CONTENT	INTERIOR DOORS TAN <1.5	COMMENTS:					
GA2-LBP-04	Room ___ Space ___ Floor ___		___ HIGH ___ MOD ___ LOW	___ GOOD ___ POOR	___ HIGH ___ MOD ___ LOW ___ NON	___ HIGH ___ MOD ___ LOW	___ YES ___ NO
CONTENT	INTERIOR DOOR FRAME TAN <1.5	COMMENTS:					

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#140274F

Pickering Environmental

Sheet ____ of ____

Date: 10-22-92
Surveyor: Rhodes / Cents
TPF Proj #: 11962.01
Client Proj #:

Building: CR Layton
Address: Gainesville

Client Contact:

SAMPLE NUMBER	LOCATION	TYPE OF MATERIAL	ACCESSIBILITY	PHYSICAL CONDITION OF AREA SAMPLED	FRIABILITY OF MATERIAL SAMPLED	ACTIVITY OF AREA SAMPLED PEOPLE TRAFFIC	WATER DAMAGE
GA2- LBP-05	Room ____ Space ____ Floor ____		__ HIGH __ MOD __ LOW	__ GOOD __ POOR	__ HIGH __ MOD __ LOW __ NON	__ HIGH __ MOD __ LOW	__ YES __ NO
CONTENT	Exterior Doors Maroon	COMMENTS: Not Analyzed					
GA2- LBP-06	Room ____ Space ____ Floor ____		__ HIGH __ MOD __ LOW	__ GOOD __ POOR	__ HIGH __ MOD __ LOW __ NON	__ HIGH __ MOD __ LOW	__ YES __ NO
CONTENT	Exterior Door Frame Maroon	COMMENTS: Not Analyzed					
GA2- LBP-07	Room ____ Space ____ Floor ____		__ HIGH __ MOD __ LOW	__ GOOD __ POOR	__ HIGH __ MOD __ LOW __ NON	__ HIGH __ MOD __ LOW	__ YES __ NO
CONTENT	Exterior Window ~~Paint~~ Frame Maroon 1.4	COMMENTS:					
GA2- LBP-08	Room ____ Space ____ Floor ____		__ HIGH __ MOD __ LOW	__ GOOD __ POOR	__ HIGH __ MOD __ LOW __ NON	__ HIGH __ MOD __ LOW	__ YES __ NO
CONTENT	Interior Stairs Handrail Tan <.5	COMMENTS:					

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Pickering Environmental

Sheet ___ of ___

Date: 10-22-92
Surveyor: TRhodes/GRAIG
TPF Proj #: 11962.01
Client Proj #: ___

Building: CR HAYTON
Address: GAINESVILLE
___
Client Contact: ___

SAMPLE NUMBER	LOCATION	TYPE OF MATERIAL	ACCESSIBILITY	PHYSICAL CONDITION OF AREA SAMPLED	FRIABILITY OF MATERIAL SAMPLED	ACTIVITY OF AREA SAMPLED PEOPLE TRAFFIC	WATER DAMAGE
GA2-~~SCP~~ LBP-09	Room ___ Space ___ Floor ___		___ HIGH ___ MOD ___ LOW	___ GOOD ___ POOR	___ HIGH ___ MOD ___ LOW ___ NON	___ HIGH ___ MOD ___ LOW	___ YES ___ NO
CONTENT	PIPE INSULATION JACKET WHITE <1.5	COMMENTS: ALL OF THERMAL SYSTEM INSULATION WAS WRAPPED WITH A JACKET THAT HAD BEEN PAINTED WHITE.					
GA2-~~SCP~~ LBP-10	Room ___ Space ___ Floor ___		___ HIGH ___ MOD ___ LOW	___ GOOD ___ POOR	___ HIGH ___ MOD ___ LOW ___ NON	___ HIGH ___ MOD ___ LOW	___ YES ___ NO
CONTENT	RADIATOR COVER TAN <1.5	COMMENTS: WIRE MESH COVER ON ALL RADIATORS					
GA2-~~SCP~~ LBP-11	Room ___ Space ___ Floor ___		___ HIGH ___ MOD ___ LOW	___ GOOD ___ POOR	___ HIGH ___ MOD ___ LOW ___ NON	___ HIGH ___ MOD ___ LOW	___ YES ___ NO
CONTENT	BARE PIPE PAINT TAN <1.5	COMMENTS: ~~PIPES FROM~~ BARE PIPES FROM STEAM LINES TO RADIATORS (TO MATCH WALLS)					
GA2-~~SCP~~ LBP-12	Room ___ Space ___ Floor ___		___ HIGH ___ MOD ___ LOW	___ GOOD ___ POOR	___ HIGH ___ MOD ___ LOW ___ NON	___ HIGH ___ MOD ___ LOW	___ YES ___ NO
CONTENT	BARE PIPE PAINT BROWN <.5	COMMENTS: BARE PIPES FROM STEAM LINES TO RADIATORS (TO MATCH WALLS)					

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#140274F

Pickering Environmental

Sheet ___ of ___

Date: 10-22-92
Surveyor: Rhodes / CRA'9
TPF Proj #: 1196.01
Client Proj #: ___

Building: C.R. Hayton
Address: Gainesville
Client Contact: ___

SAMPLE NUMBER	LOCATION	TYPE OF MATERIAL	ACCESSIBILITY	PHYSICAL CONDITION OF AREA SAMPLED	FRIABILITY OF MATERIAL SAMPLED	ACTIVITY OF AREA SAMPLED PEOPLE TRAFFIC	WATER DAMAGE
GA2-LBP-13	Room ___ Space ___ Floor ___		___ HIGH ___ MOD ___ LOW	___ GOOD ___ POOR	___ HIGH ___ MOD ___ LOW ___ NON	___ HIGH ___ MOD ___ LOW	___ YES ___ NO
CONTENT	INTERIOR WINDOW FRAME TAN <.5	COMMENTS:					
GA2-LBP-14	Room ___ Space ___ Floor ___		___ HIGH ___ MOD ___ LOW	___ GOOD ___ POOR	___ HIGH ___ MOD ___ LOW ___ NON	___ HIGH ___ MOD ___ LOW	___ YES ___ NO
CONTENT	INTERIOR WALL PAINT DARK GREEN <.5	COMMENTS: LOCATED IN THE MENS RESTROOM					
GA2-LBP-15	Room ___ Space ___ Floor ___		___ HIGH ___ MOD ___ LOW	___ GOOD ___ POOR	___ HIGH ___ MOD ___ LOW ___ NON	___ HIGH ___ MOD ___ LOW	___ YES ___ NO
CONTENT	INTERIOR WALL PAINT LIGHT GREEN <.5	COMMENTS: IN BOILER ROOM & SEVERAL VARIOUS LOCATIONS					
GA2-LBP-16	Room ___ Space ___ Floor ___		___ HIGH ___ MOD ___ LOW	___ GOOD ___ POOR	___ HIGH ___ MOD ___ LOW ___ NON	___ HIGH ___ MOD ___ LOW	___ YES ___ NO
CONTENT	INTERIOR WALL PAINT GREY <.5	COMMENTS: LOCATED IN BOILER ROOM					

FL 005 (sb)

#140274F

Pickering Environmental

Sheet ___ of ___

Date: 10-22-92
Surveyor: RHODES / CRAIG
TPF Proj #: 1962.01
Client Proj #: ___

Building: C. R. LAYTON
Address: GAINESVILLE
___
Client Contact: ___

SAMPLE NUMBER	LOCATION	TYPE OF MATERIAL	ACCESSIBILITY	PHYSICAL CONDITION OF AREA SAMPLED	FRIABILITY OF MATERIAL SAMPLED	ACTIVITY OF AREA SAMPLED PEOPLE TRAFFIC	WATER DAMAGE
GA2-LBP-17	Room KITCHEN Space ___ Floor ___		___ HIGH ___ MOD ___ LOW	___ GOOD ___ POOR	___ HIGH ___ MOD ___ LOW ___ NON	___ HIGH ___ MOD ___ LOW	___ YES ___ NO
CONTENT	KITCHEN WALL PAINT WHITE <.5	COMMENTS:					
GA2-LBP-18	Room KITCHEN Space ___ Floor ___		___ HIGH ___ MOD ___ LOW	___ GOOD ___ POOR	___ HIGH ___ MOD ___ LOW ___ NON	___ HIGH ___ MOD ___ LOW	___ YES ___ NO
CONTENT	KITCHEN FLOOR PAINT GREEN	COMMENTS: NOT ANALYZED					
GA2-LBP-19	Room ___ Space ___ Floor ___		___ HIGH ___ MOD ___ LOW	___ GOOD ___ POOR	___ HIGH ___ MOD ___ LOW ___ NON	___ HIGH ___ MOD ___ LOW	___ YES ___ NO
CONTENT	WALL PAINT ROOM #106 YELLOW ND	COMMENTS:					
GA2-LBP-20	Room ___ Space ___ Floor ___		___ HIGH ___ MOD ___ LOW	___ GOOD ___ POOR	___ HIGH ___ MOD ___ LOW ___ NON	___ HIGH ___ MOD ___ LOW	___ YES ___ NO
CONTENT	EXTERIOR DOOR BRIGHT RED NOT ANALYZED	COMMENTS: ONLY ONE DOOR THIS COLOR LOCATED JUST SOUTH OF THE GARAGE DOOR					

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Sheet ___ of ___

Date: 10-22-92
Surveyor: RHODES / CRAIG
TPF Proj #: 11962.01
Client Proj #: ___

Building: C.R. LAYTON
Address: GAINESVILLE
___
Client Contact: ___

SAMPLE NUMBER	LOCATION	TYPE OF MATERIAL	ACCESSIBILITY	PHYSICAL CONDITION OF AREA SAMPLED	FRIABILITY OF MATERIAL SAMPLED	ACTIVITY OF AREA SAMPLED PEOPLE TRAFFIC	WATER DAMAGE
GA2 - LBP - 21	Room ___ Space ___ Floor ___		___ HIGH ___ MOD ___ LOW	___ GOOD ___ POOR	___ HIGH ___ MOD ___ LOW ___ NON	___ HIGH ___ MOD ___ LOW	___ YES ___ NO
CONTENT	GARAGE DOOR FRAME RED PRIMER 1.2	COMMENTS:					
GA2 - LBP - 22	Room ___ Space ___ Floor ___		___ HIGH ___ MOD ___ LOW	___ GOOD ___ POOR	___ HIGH ___ MOD ___ LOW ___ NON	___ HIGH ___ MOD ___ LOW	___ YES ___ NO
CONTENT	HAZARD MARKER AT BASE OF GARAGE DOOR YELLOW .890	COMMENTS:					
GA2 - LBP - 23	Room ___ Space ___ Floor ___		___ HIGH ___ MOD ___ LOW	___ GOOD ___ POOR	___ HIGH ___ MOD ___ LOW ___ NON	___ HIGH ___ MOD ___ LOW	___ YES ___ NO
CONTENT	FIRING RANGE SAND 7.9	COMMENTS: SAND LOCATED IN PIT AT THE END OF THE RANGE					
GA2 - LBP - 24	Room ___ Space ___ Floor ___		___ HIGH ___ MOD ___ LOW	___ GOOD ___ POOR	___ HIGH ___ MOD ___ LOW ___ NON	___ HIGH ___ MOD ___ LOW	___ YES ___ NO
CONTENT	FIRING RANGE SAND 2.9	COMMENTS: SAND LOCATED IN PIT AT THE END OF THE RANGE					

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Pickering Environmental

Sheet ___ of ___

Date: 10-22-98
Surveyor: RHODES / CRAIG
TPF Proj #: 1962.01
Client Proj #: ___

Building: C. R. LAYTON
Address: GAINESVILLE
Client Contact: ___

SAMPLE NUMBER	LOCATION	TYPE OF MATERIAL	ACCESSIBILITY	PHYSICAL CONDITION OF AREA SAMPLED	FRIABILITY OF MATERIAL SAMPLED	ACTIVITY OF AREA SAMPLED PEOPLE TRAFFIC	WATER DAMAGE
GAZ-LBP-25	Room ___ Space ___ Floor ___		___ HIGH ___ MOD ___ LOW	___ GOOD ___ POOR	___ HIGH ___ MOD ___ LOW ___ NON	___ HIGH ___ MOD ___ LOW	___ YES ___ NO
CONTENT	FIRING RANGE SAND 2.1	COMMENTS: SAND LOCATED IN PIT AT THE END OF THE FIRING RANGE					
GAZ-LBP-26	Room ___ Space ___ Floor ___		___ HIGH ___ MOD ___ LOW	___ GOOD ___ POOR	___ HIGH ___ MOD ___ LOW ___ NON	___ HIGH ___ MOD ___ LOW	___ YES ___ NO
CONTENT	FIRING RANGE 9.0 BLACK DEFLECTION WALL	COMMENTS: DEFLECTION WALL LOCATED AT THE END OF THE FIRING RANGE					
GAZ-LBP-27	Room ___ Space ___ Floor ___		___ HIGH ___ MOD ___ LOW	___ GOOD ___ POOR	___ HIGH ___ MOD ___ LOW ___ NON	___ HIGH ___ MOD ___ LOW	___ YES ___ NO
CONTENT	FIRING RANGE 4.5 CHARTRUCE WALL	COMMENTS:					
	Room ___ Space ___ Floor ___		___ HIGH ___ MOD ___ LOW	___ GOOD ___ POOR	___ HIGH ___ MOD ___ LOW ___ NON	___ HIGH ___ MOD ___ LOW	___ YES ___ NO
CONTENT		COMMENTS:					

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RESULTS OF BULK ASBESTOS SAMPLE ANALYSIS BY POLARIZED LIGHT MICROSCOPY (PLM) EPA-600/M4-82-020

Client: **Pickering Firm Inc.**

LGN: **302992**

Project ID: **11962.01, Jax Coe, Various, CR Layton**

Sample Description:

Sample Number	Sample Date	Description
GA2-01-01*	10/22/92	Aircell with wrap
GA2-01-01 [A]	10/22/92	Aircell
GA2-01-01 [B]	10/22/92	Wrap
GA2-01-02*	10/22/92	Aircell with wrap
GA2-01-02 [A]	10/22/92	Aircell

Results of PLM Analysis: Visual Area Estimation: Percentages Detected

Sample Number:	GA2-01-01*	GA2-01-01 [A]	GA2-01-01 [B]	GA2-01-02*	GA2-01-02 [A]
Asbestiform Minerals:					
Amosite					
Anthophyllite					
Chrysotile	36	40		54	60
Crocidolite					
Tremolite-Actinolite					
TOTAL ASBESTOS	36	40	0	54	60
Other Fibrous Materials:					
Fibrous Glass					
Cellulose	54	50	90	23	15
Synthetics					
Other:					
Percent Nonfibrous Material	10	10	10	23	25

* Composite analysis (multilayered sample, see individual layer analyses).

Analyst: Fritz Fischer

Date: 11/06/92

#140274F

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RESULTS OF BULK ASBESTOS SAMPLE ANALYSIS BY POLARIZED LIGHT MICROSCOPY (PLM) EPA-600/M4-82-020

Client: **Pickering Firm Inc.** LGN: **302992**

Project ID: **11962.01, Jax Coe, Various, CR Layton**

Sample Description:

Sample Number	Sample Date	Description
GA2-01-02 [B]	10/22/92	Wrap
GA2-01-03*	10/22/92	Aircell with wrap
GA2-01-03 [A]	10/22/92	Aircell
GA2-01-03 [B]	10/22/92	Wrap
GA2-01-04*	10/22/92	Aircell with wrap

Results of PLM Analysis: Visual Area Estimation: Percentages Detected

Sample Number:	GA2-01-02 [B]	GA2-01-03*	GA2-01-03 [A]	GA2-01-03 [B]	GA2-01-04*
Asbestiform Minerals:					
Amosite					
Anthophyllite					
Chrysotile		41	45		54
Crocidolite					
Tremolite-Actinolite					
TOTAL ASBESTOS	0	41	45	0	54
Other Fibrous Materials:					
Fibrous Glass					
Cellulose	90	23	15	90	23
Synthetics					
Other:					
Percent Nonfibrous Material	10	36	40	10	23

* Composite analysis (multilayered sample, see individual layer analyses).

Analyst: _____
Fritz Fischer

Date: 11/06/92

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RESULTS OF BULK ASBESTOS SAMPLE ANALYSIS BY POLARIZED LIGHT MICROSCOPY (PLM) EPA-600/M4-82-020

Client: **Pickering Firm Inc.**

LGN: **302992**

Project ID: **11962.01, Jax Coe, Various, CR Layton**

Sample Description:

Sample Number	Sample Date	Description
GA2-01-04 [A]	10/22/92	Aircell
GA2-01-04 [B]	10/22/92	Wrap
GA2-02-01*	10/22/92	Insulation with wrap
GA2-02-01 [A]	10/22/92	Insulation
GA2-02-01 [B]	10/22/92	Wrap

Results of PLM Analysis: Visual Area Estimation: Percentages Detected

Sample Number:	GA2-01-04 [A]	GA2-01-04 [B]	GA2-02-01*	GA2-02-01 [A]	GA2-02-01 [B]
Asbestiform Minerals:					
Amosite			5	5	
Anthophyllite					
Chrysotile	60		9	10	
Crocidolite					
Tremolite-Actinolite					
TOTAL ASBESTOS	60	0	14	15	0
Other Fibrous Materials:					
Fibrous Glass					
Cellulose	15	85	9		90
Synthetics					
Other:					
Percent Nonfibrous Material	25	15	77	85	10

* Composite analysis (multilayered sample, see individual layer analyses).

Analyst: Fritz Fischer

Date: 11/06/92

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RESULTS OF BULK ASBESTOS SAMPLE ANALYSIS BY POLARIZED LIGHT MICROSCOPY (PLM) EPA-600/M4-82-020

Client: **Pickering Firm Inc.** LGN: **302992**

Project ID: **11962.01, Jax Coe, Various, CR Layton**

Sample Description:

Sample Number	Sample Date	Description
GA2-02-02*	10/22/92	Insulation with wrap
GA2-02-02 [A]	10/22/92	Insulation
GA2-02-02 [B]	10/22/92	Wrap
GA2-02-03*	10/22/92	Insulation with wrap
GA2-02-03 [A]	10/22/92	Insulation

Results of PLM Analysis: Visual Area Estimation: Percentages Detected

Sample Number:	GA2-02-02*	GA2-02-02 [A]	GA2-02-02 [B]	GA2-02-03*	GA2-02-03 [A]
Asbestiform Minerals:					
Amosite	3	3		5	5
Anthophyllite					
Chrysotile	9	10		63	70
Crocidolite					
Tremolite-Actinolite					
TOTAL ASBESTOS	12	13	0	68	75
Other Fibrous Materials:					
Fibrous Glass					
Cellulose	9		90	9	
Synthetics					
Other:					
Percent Nonfibrous Material	79	87	10	23	25

* Composite analysis (multilayered sample, see individual layer analyses).

Analyst: Fritz Fischer Date: 11/06/92

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RESULTS OF BULK ASBESTOS SAMPLE ANALYSIS BY POLARIZED LIGHT MICROSCOPY (PLM) EPA-600/M4-82-020

Client: **Pickering Firm Inc.**

LGN: **302992**

Project ID: **11962.01, Jax Coe, Various, CR Layton**

Sample Description:

Sample Number	Sample Date	Description
GA2-02-03 [B]	10/22/92	Wrap
GA2-03-01*	10/22/92	Aircell with wrap
GA2-03-01 [A]	10/22/92	Aircell
GA2-03-01 [B]	10/22/92	Wrap
GA2-03-02*	10/22/92	Aircell with wrap

Results of PLM Analysis: Visual Area Estimation: Percentages Detected

Sample Number:	GA2-02-03 [B]	GA2-03-01*	GA2-03-01 [A]	GA2-03-01 [B]	GA2-03-02*
Asbestiform Minerals:					
Amosite					
Anthophyllite					
Chrysotile		36	40		54
Crocidolite					
Tremolite-Actinolite					
TOTAL ASBESTOS	0	36	40	0	54
Other Fibrous Materials:					
Fibrous Glass					
Cellulose	85	36	30	90	27
Synthetics					
Other:					
Percent Nonfibrous Material	15	28	30	10	19

* Composite analysis (multilayered sample, see individual layer analyses).

Analyst: _____
Fritz Fischer

Date: 11/06/92

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RESULTS OF BULK ASBESTOS SAMPLE ANALYSIS BY POLARIZED LIGHT MICROSCOPY (PLM) EPA-600/M4-82-020

Client: **Pickering Firm Inc.** LGN: **302992**

Project ID: **11962.01, Jax Coe, Various, CR Layton**

Sample Description:

Sample Number	Sample Date	Description
GA2-03-02 [A]	10/22/92	Aircell
GA2-03-02 [B]	10/22/92	Wrap
GA2-03-03*	10/22/92	Aircell with wrap
GA2-03-03 [A]	10/22/92	Aircell
GA2-03-03 [B]	10/22/92	Wrap

Results of PLM Analysis: Visual Area Estimation: Percentages Detected

Sample Number:	GA2-03-02 [A]	GA2-03-02 [B]	GA2-03-03*	GA2-03-03 [A]	GA2-03-03 [B]
Asbestiform Minerals:					
Amosite					
Anthophyllite					
Chrysotile	60		36	40	
Crocidolite					
Tremolite-Actinolite					
TOTAL ASBESTOS	60	0	36	40	0
Other Fibrous Materials:					
Fibrous Glass					
Cellulose	20	90	45	40	90
Synthetics					
Other:					
Percent Nonfibrous Material	20	10	19	20	10

* Composite analysis (multilayered sample, see individual layer analyses).

Analyst: Fritz Fischer Date: 11/06/92

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RESULTS OF BULK ASBESTOS SAMPLE ANALYSIS BY POLARIZED LIGHT MICROSCOPY (PLM) EPA-600/M4-82-020

Client: **Pickering Firm Inc.** LGN: **302992**

Project ID: **11962.01, Jax Coe, Various, CR Layton** Page: 7 of 12

Sample Description:

Sample Number	Sample Date	Description
GA2-03-04*	10/22/92	Aircell with wrap
GA2-03-04 [A]	10/22/92	Aircell
GA2-03-04 [B]	10/22/92	Wrap
GA2-04-01*	10/22/92	Insulation with wrap
GA2-04-01 [A]	10/22/92	Insulation

Results of PLM Analysis: Visual Area Estimation: Percentages Detected

Sample Number:	GA2-03-04*	GA2-03-04 [A]	GA2-03-04 [B]	GA2-04-01*	GA2-04-01 [A]
Asbestiform Minerals:					
Amosite				23	25
Anthophyllite					
Chrysotile	68	75		23	25
Crocidolite					
Tremolite-Actinolite					
TOTAL ASBESTOS	68	75	0	46	50
Other Fibrous Materials:					
Fibrous Glass					
Cellulose	9		90	10	
Synthetics					
Other:					
Percent Nonfibrous Material	23	25	10	44	50

* Composite analysis (multilayered sample, see individual layer analyses).

Analyst: Fritz Fischer

Date: 11/06/92

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RESULTS OF BULK ASBESTOS SAMPLE ANALYSIS BY POLARIZED LIGHT MICROSCOPY (PLM) EPA-600/M4-82-020

Client: **Pickering Firm Inc.** LGN: **302992**

Project ID: **11962.01, Jax Coe, Various, CR Layton**

Sample Description:

Sample Number	Sample Date	Description
GA2-04-01 [B]	10/22/92	Wrap
GA2-04-02	10/22/92	Insulation
GA2-04-03*	10/22/92	Insulation with wrap
GA2-04-03 [A]	10/22/92	Insulation
GA2-04-03 [B]	10/22/92	Wrap

Results of PLM Analysis: Visual Area Estimation; Percentages Detected

Sample Number:	GA2-04-01 [B]	GA2-04-02	GA2-04-03*	GA2-04-03 [A]	GA2-04-03 [B]
Asbestiform Minerals:					
Amosite		30	36	40	
Anthophyllite					
Chrysotile		20	23	25	
Crocidolite					
Tremolite-Actinolite					
TOTAL ASBESTOS	0	50	59	65	0
Other Fibrous Materials:					
Fibrous Glass					
Cellulose	95		9		90
Synthetics					
Other:					
Percent Nonfibrous Material	5	50	32	35	10

* Composite analysis (multilayered sample, see individual layer analyses).

Analyst: _____
Fritz Fischer

Date: 11/06/92

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RESULTS OF BULK ASBESTOS SAMPLE ANALYSIS BY POLARIZED LIGHT MICROSCOPY (PLM) EPA-600/M4-82-020

Client: **Pickering Firm Inc.** LGN: **302992**

Project ID: **11962.01, Jax Coe, Various, CR Layton** Page: 9 of 12

Sample Description:

Sample Number	Sample Date	Description
GA2-04-04*	10/22/92	Insulation with wrap
GA2-04-04 [A]	10/22/92	Insulation
GA2-04-04 [B]	10/22/92	Wrap
GA2-05-01*	10/22/92	Aircell with wrap
GA2-05-01 [A]	10/22/92	Aircell

Results of PLM Analysis: Visual Area Estimation: Percentages Detected

Sample Number:	GA2-04-04*	GA2-04-04 [A]	GA2-04-04 [B]	GA2-05-01*	GA2-05-01 [A]
Asbestiform Minerals:					
Amosite	2	2			
Anthophyllite					
Chrysotile	14	15		5	5
Crocidolite					
Tremolite-Actinolite					
TOTAL ASBESTOS	16	17	0	5	5
Other Fibrous Materials:					
Fibrous Glass					
Cellulose	9		85	86	85
Synthetics					
Other:					
Percent Nonfibrous Material	75	83	15	9	10

* Composite analysis (multilayered sample, see individual layer analyses).

Analyst: Fritz Fischer Date: 11/06/92

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RESULTS OF BULK ASBESTOS SAMPLE ANALYSIS BY POLARIZED LIGHT MICROSCOPY (PLM) EPA-600/M4-82-020

Client: **Pickering Firm Inc.**

LGN: **302992**

Project ID: **11962.01, Jax Coe, Various, CR Layton**

Sample Description:

Sample Number	Sample Date	Description
GA2-05-01 [B]	10/22/92	Wrap
GA2-05-02*	10/22/92	Aircell with wrap
GA2-05-02 [A]	10/22/92	Aircell
GA2-05-02 [B]	10/22/92	Wrap
GA2-05-03*	10/22/92	Aircell with wrap

Results of PLM Analysis: Visual Area Estimation: Percentages Detected

Sample Number:	GA2-05-01 [B]	GA2-05-02*	GA2-05-02 [A]	GA2-05-02 [B]	GA2-05-03*
Asbestiform Minerals:					
Amosite					
Anthophyllite					
Chrysotile		23	25		9
Crocidolite					
Tremolite-Actinolite					
TOTAL ASBESTOS	0	23	25	0	9
Other Fibrous Materials:					
Fibrous Glass					
Cellulose	90	64	60	95	77
Synthetics					
Other:					
Percent Nonfibrous Material	10	13	15	5	14

* Composite analysis (multilayered sample, see individual layer analyses).

Analyst: Fritz Fischer

Date: 11/06/92

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RESULTS OF BULK ASBESTOS SAMPLE ANALYSIS BY POLARIZED LIGHT MICROSCOPY (PLM) EPA-600/M4-82-020

Client: **Pickering Firm Inc.** LGN: **302992**

Project ID: **11962.01, Jax Coe, Various, CR Layton**

Sample Description:

Sample Number	Sample Date	Description
GA2-05-03 [A]	10/22/92	Aircell
GA2-05-03 [B]	10/22/92	Wrap
GA2-05-04*	10/22/92	Aircell with wrap
GA2-05-04 [A]	10/22/92	Aircell
GA2-05-04 [B]	10/22/92	Wrap

Results of PLM Analysis: Visual Area Estimation: Percentages Detected

Sample Number:	GA2-05-03 [A]	GA2-05-03 [B]	GA2-05-04*	GA2-05-04 [A]	GA2-05-04 [B]
Asbestiform Minerals:					
Amosite					
Anthophyllite					
Chrysotile	10		36	40	
Crocidolite					
Tremolite-Actinolite					
TOTAL ASBESTOS	10	0	36	40	0
Other Fibrous Materials:					
Fibrous Glass					
Cellulose	75	90	51	45	95
Synthetics					
Other:					
Percent Nonfibrous Material	15	10	13	15	5

* Composite analysis (multilayered sample, see individual layer analyses).

Analyst: Fritz Fischer Date: 11/06/92

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RESULTS OF BULK ASBESTOS SAMPLE ANALYSIS BY POLARIZED LIGHT MICROSCOPY (PLM) EPA-600/M4-82-020

Client: **Pickering Firm Inc.**

LGN: **302992**

Project ID: **11962.01, Jax Coe, Various, CR Layton**

Sample Description:

Sample Number	Sample Date	Description
GA2-06-01*	10/22/92	Aircell with wrap
GA2-06-01 [A]	10/22/92	Aircell
GA2-06-01 [B]	10/22/92	Wrap

Results of PLM Analysis: Visual Area Estimation: Percentages Detected

Sample Number:	GA2-06-01*	GA2-06-01 [A]	GA2-06-01 [B]		
Asbestiform Minerals:					
Amosite	18	20			
Anthophyllite					
Chrysotile	32	35			
Crocidolite					
Tremolite-Actinolite					
TOTAL ASBESTOS	50	55	0		
Other Fibrous Materials:					
Fibrous Glass					
Cellulose	9		85		
Synthetics					
Other:					
Percent Nonfibrous Material	41	45	15		

* Composite analysis (multilayered sample, see individual layer analyses).

Analyst: Fritz Fischer

Date: 11/06/92

#140274F

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RESULTS OF BULK ASBESTOS SAMPLE ANALYSIS BY POLARIZED LIGHT MICROSCOPY (PLM) EPA-600/M4-82-020

Client: **Pickering Firm Inc.**

LGN: **302994**

Project ID: **11962.01, Jax Coe, Various, CR Layton G'ville**

Sample Description:

Sample Number	Sample Date	Description
GA2-13-03 [B]	10/22/92	Adhesive
GA2-14-01*	10/22/92	Cove base with adhesive
GA2-14-01 [A]	10/22/92	Cove base
GA2-14-01 [B]	10/22/92	Adhesive
GA2-14-02	10/22/92	Cove base

Results of PLM Analysis: Visual Area Estimation: Percentages Detected

Sample Number:	GA2-13-03 [B]	GA2-14-01*	GA2-14-01 [A] Ashed	GA2-14-01 [B]	GA2-14-02 Ashed
Asbestiform Minerals:					
Amosite					
Anthophyllite					
Chrysotile					
Crocidolite					
Tremolite-Actinolite					
TOTAL ASBESTOS	0	0	0	0	0
Other Fibrous Materials:					
Fibrous Glass					
Cellulose					
Synthetics					
Other:					
Percent Nonfibrous Material	100	100	100	100	100

* Composite analysis (multilayered sample, see individual layer analyses).

Analyst: Jeff Wingerter

Date: 11/07/92

#140274F

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RESULTS OF BULK ASBESTOS SAMPLE ANALYSIS BY POLARIZED LIGHT MICROSCOPY (PLM) EPA-600/M4-82-020

Client: **Pickering Firm Inc.**

LGN: **302994**

Project ID: **11962.01, Jax Coe, Various, CR Layton G'ville**

Sample Description:

Sample Number	Sample Date	Description
GA2-13-02*	10/22/92	Cove base with adhsive
GA2-13-02 [A]	10/22/92	Cove base
GA2-13-02 [B]	10/22/92	Adhesive
GA2-13-03*	10/22/92	Cove base with adhesive
GA2-13-03 [A]	10/22/92	Cove base

Results of PLM Analysis: Visual Area Estimation: Percentages Detected

Sample Number:	GA2-13-02*	GA2-13-02 [A]	GA2-13-02 [B]	GA2-13-03*	GA2-13-03 [A]
Asbestiform Minerals:					
Amosite		Ashed			Ashed
Anthophyllite					
Chrysotile					
Crocidolite					
Tremolite-Actinolite					
TOTAL ASBESTOS	0	0	0	0	0
Other Fibrous Materials:					
Fibrous Glass					
Cellulose	Trace <1%		Trace <1%		
Synthetics					
Other:					
Percent Nonfibrous Material	99	100	99	100	100

* Composite analysis (multilayered sample, see individual layer analyses).

Analyst: Jeff Wingerter

Date: 11/07/92

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RESULTS OF BULK ASBESTOS SAMPLE ANALYSIS BY POLARIZED LIGHT MICROSCOPY (PLM) EPA-600/M4-82-020

Client: **Pickering Firm Inc.**

LGN: **302993**

Project ID: **11962.01, Jax Coe, Various, CR Layton, G'ville**

Sample Description:

Sample Number	Sample Date	Description
GA2-06-02	10/22/92	Insulation with wrap (inseparable)
GA2-06-03	10/22/92	Insulation with wrap (inseparable)
GA2-07-01	10/22/92	Insulation with wrap (inseparable)
GA2-07-02	10/22/92	Insulation with wrap (inseparable)
GA2-07-03	10/22/92	Insulation

Results of PLM Analysis: Visual Area Estimation; Percentages Detected

Sample Number:	GA2-06-02	GA2-06-03	GA2-07-01	GA2-07-02	GA2-07-03
Asbestiform Minerals:					
Amosite	10	15		5	
Anthophyllite					
Chrysotile	15	10		Trace <1%	
Crocidolite					
Tremolite-Actinolite					
TOTAL ASBESTOS	25	25	0	6	0
Other Fibrous Materials:					
Fibrous Glass					
Cellulose	Trace <1%	Trace <1%	30	30	35
Synthetics				2	Trace <1%
Other:					
Percent Nonfibrous Material	74	74	70	62	64

Analyst: Jeff Wingerter

Date: 11/06/92

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RESULTS OF BULK ASBESTOS SAMPLE ANALYSIS BY POLARIZED LIGHT MICROSCOPY (PLM) EPA-600/M4-82-020

Client: **Pickering Firm Inc.**

LGN: **302993**

Project ID: **11962.01, Jax Coe, Various, CR Layton, G'ville**

Sample Description:

Sample Number	Sample Date	Description
GA2-08-01	10/22/92	Brown material
GA2-08-02	10/22/92	Black material
GA2-08-03	10/22/92	Black material
GA2-09-01	10/22/92	Woven material
GA2-10-01*	10/22/92	Brown insulation with black material

Results of PLM Analysis: Visual Area Estimation: Percentages Detected

Sample Number:	GA2-08-01	GA2-08-02	GA2-08-03	GA2-09-01	GA2-10-01*
Asbestiform Minerals:					
Amosite					
Anthophyllite					
Chrysotile					
Crocidolite				65	
Tremolite-Actinolite					
TOTAL ASBESTOS	0	0	0	65	0
Other Fibrous Materials:					
Fibrous Glass	Trace <1%	Trace <1%	Trace <1%		
Cellulose	Trace <1%	Trace <1%	Trace <1%	5	62
Synthetics	5	5	5		
Other:					
Percent Nonfibrous Material	94	94	94	30	38

* Composite analysis (multilayered sample, see individual layer analyses).

Analyst: [signature] 1721
Jeff Wingerter

Date: 11/06/92

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RESULTS OF BULK ASBESTOS SAMPLE ANALYSIS BY POLARIZED LIGHT MICROSCOPY (PLM) EPA-600/M4-82-020

Client: **Pickering Firm Inc.**

LGN: **302993**

Project ID: **11962.01, Jax Coe, Various, CR Layton, G'ville**

Sample Description:

Sample Number	Sample Date	Description
GA2-10-01 [A]	10/22/92	Brown insulation
GA2-10-01 [B]	10/22/92	Black material
GA2-10-02*	10/22/92	Black material with tarry material
GA2-10-02 [A]	10/22/92	Black material
GA2-10-02 [B]	10/22/92	Tarry material

Results of PLM Analysis: Visual Area Estimation: Percentages Detected

Sample Number:	GA2-10-01 [A]	GA2-10-01 [B]	GA2-10-02*	GA2-10-02 [A]	GA2-10-02 [B]
Asbestiform Minerals:					
Amosite					
Anthophyllite					
Chrysotile					
Crocidolite					
Tremolite-Actinolite					
TOTAL ASBESTOS	0	0	0	0	0
Other Fibrous Materials:					
Fibrous Glass					
Cellulose	75	25	8	Trace <1%	30
Synthetics					
Other:					
Percent Nonfibrous Material	25	75	92	99	70

* Composite analysis (multilayered sample, see individual layer analyses).

Analyst: Jeff Wingerter

Date: 11/06/92

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RESULTS OF BULK ASBESTOS SAMPLE ANALYSIS BY POLARIZED LIGHT MICROSCOPY (PLM) EPA-600/M4-82-020

Client: **Pickering Firm Inc.**

LGN: **302993**

Project ID: **11962.01, Jax Coe, Various, CR Layton, G'ville**

Sample Description:

Sample Number	Sample Date	Description
GA2-10-03	10/22/92	Loose Insulation
GA2-10-04*	10/22/92	Black insulation with tarry material
GA2-10-04 [A]	10/22/92	Black insulation
GA2-10-04 [B]	10/22/92	Tarry material
GA2-11-01*	10/22/92	Tan material with black material

Results of PLM Analysis: Visual Area Estimation; Percentages Detected

Sample Number:	GA2-10-03	GA2-10-04*	GA2-10-04 [A]	GA2-10-04 [B]	GA2-11-01*
Asbestiform Minerals:					
Amosite					
Anthophyllite					
Chrysotile					
Crocidolite					Trace <1%
Tremolite-Actinolite					
TOTAL ASBESTOS	0	0	0	0	Trace <1%
Other Fibrous Materials:					
Fibrous Glass					
Cellulose	90	13	Trace <1%	50	83
Synthetics					
Other:					
Percent Nonfibrous Material	10	87	99	50	16

* Composite analysis (multilayered sample, see individual layer analyses).

Analyst: Jeff Wingerter

Date: 11/06/92

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RESULTS OF BULK ASBESTOS SAMPLE ANALYSIS BY POLARIZED LIGHT MICROSCOPY (PLM) EPA-600/M4-82-020

Client: **Pickering Firm Inc.**

LGN: **302993**

Project ID: **11962.01, Jax Coe, Various, CR Layton, G'ville**

Sample Description:

Sample Number	Sample Date	Description
GA2-11-01 [A]	10/22/92	Tan material
GA2-11-01 [B]	10/22/92	Black material
GA2-11-02*	10/22/92	Tan material with black material
GA2-11-02 [A]	10/22/92	Tan material
GA2-11-02 [B]	10/22/92	Black material

Results of PLM Analysis: Visual Area Estimation: Percentages Detected

Sample Number:	GA2-11-01 [A]	GA2-11-01 [B]	GA2-11-02*	GA2-11-02 [A]	GA2-11-02 [B]
Asbestiform Minerals:					
Amosite					
Anthophyllite					
Chrysotile		5	Trace <1%		5
Crocidolite					
Tremolite-Actinolite					
TOTAL ASBESTOS	0	5	Trace <1%	0	5
Other Fibrous Materials:					
Fibrous Glass					
Cellulose	95	10	91	95	25
Synthetics					
Other:					
Percent Nonfibrous Material	5	85	8	5	70

* Composite analysis (multilayered sample, see individual layer analyses).

Analyst: Jeff Wingerter

Date: 11/06/92

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RESULTS OF BULK ASBESTOS SAMPLE ANALYSIS BY POLARIZED LIGHT MICROSCOPY (PLM) EPA-600/M4-82-020

Client: **Pickering Firm Inc.**

LGN: **302993**

Project ID: **11962.01, Jax Coe, Various, CR Layton, G'ville**

Sample Description:

Sample Number	Sample Date	Description
GA2-12-01	10/22/92	Ceiling tile
GA2-12-02	10/22/92	Ceiling tile
GA2-12-03	10/22/92	Ceiling tile
GA2-13-01	10/22/92	Cove base

Results of PLM Analysis: Visual Area Estimation: Percentages Detected

Sample Number:	GA2-12-01	GA2-12-02	GA2-12-03	GA2-13-01	
Asbestiform Minerals:					
Amosite				Ashed	
Anthophyllite					
Chrysotile					
Crocidolite					
Tremolite-Actinolite					
TOTAL ASBESTOS	0	0	0	0	
Other Fibrous Materials:					
Fibrous Glass	40	40	40		
Cellulose	30	30	30		
Synthetics					
Other:					
Percent Nonfibrous Material	30	30	30	100	

* Composite analysis (multilayered sample, see individual layer analyses).

Analyst: Jeff Wingerter

Date: 11/06/92

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RESULTS OF BULK ASBESTOS SAMPLE ANALYSIS BY POLARIZED LIGHT MICROSCOPY (PLM) EPA-600/M4-82-020

Client: **Pickering Firm Inc.**

LGN: **302994**

Project ID: **11962.01, Jax Coe, Various, CR Layton G'ville**

Sample Description:

Sample Number	Sample Date	Description
GA2-14-03*	10/22/92	Cove base with adhesive
GA2-14-03 [A]	10/22/92	Cove base
GA2-14-03 [B]	10/22/92	Adhesive
GA2-15-01	10/22/92	Caulk
GA2-15-02	10/22/92	Caulk

Results of PLM Analysis: Visual Area Estimation: Percentages Detected

Sample Number:	GA2-14-03*	GA2-14-03 [A]	GA2-14-03 [B]	GA2-15-01	GA2-15-02
Asbestiform Minerals:		Ashed			
Amosite					
Anthophyllite					
Chrysotile					
Crocidolite					
Tremolite-Actinolite					
TOTAL ASBESTOS	0	0	0	0	0
Other Fibrous Materials:					
Fibrous Glass					
Cellulose	Trace <1%		Trace <1%		
Synthetics					
Other:					
Percent Nonfibrous Material	99	100	99	100	100

* Composite analysis (multilayered sample, see individual layer analyses).

Analyst: Jeff Wingerter

Date: 11/07/92

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RESULTS OF BULK ASBESTOS SAMPLE ANALYSIS BY POLARIZED LIGHT MICROSCOPY (PLM) EPA-600/M4-82-020

Client: **Pickering Firm Inc.**

LGN: **302994**

Project ID: **11962.01, Jax Coe, Various, CR Layton G'ville**

Sample Description:

Sample Number	Sample Date	Description
GA2-15-03	10/22/92	Caulk
GA2-16-01*	10/22/92	Floor tile with brown material
GA2-16-01 [A]	10/22/92	Floor tile
GA2-16-01 [B]	10/22/92	Brown material
GA2-16-02*	10/22/92	Floor tile, grey material and black material

Results of PLM Analysis: Visual Area Estimation: Percentages Detected

Sample Number:	GA2-15-03	GA2-16-01*	GA2-16-01 [A]	GA2-16-01 [B]	GA2-16-02*
Asbestiform Minerals:					
Amosite					
Anthophyllite					
Chrysotile		6		30	Trace <1%
Crocidolite					
Tremolite-Actinolite					
TOTAL ASBESTOS	0	6	0	30	Trace <1%
Other Fibrous Materials:					
Fibrous Glass					
Cellulose	Trace <1%	Trace <1%	Trace <1%		Trace <1%
Synthetics					
Other:	2				
Percent Nonfibrous Material	97	93	99	70	99

* Composite analysis (multilayered sample, see individual layer analyses).

Analyst: Jeff Wingerter

Date: 11/07/92

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RESULTS OF BULK ASBESTOS SAMPLE ANALYSIS BY POLARIZED LIGHT MICROSCOPY (PLM) EPA-600/M4-82-020

Client: **Pickering Firm Inc.**

LGN: **302994**

Project ID: **11962.01, Jax Coe, Various, CR Layton G'ville**

Sample Description:

Sample Number	Sample Date	Description
GA2-16-02 [A]	10/22/92	Floor tile
GA2-16-02 [B]	10/22/92	Grey material
GA2-16-02 [C]	10/22/92	Black material
GA2-16-03*	10/22/92	Floor tile with adhesive
GA2-16-03 [A]	10/22/92	Floor tile

Results of PLM Analysis: Visual Area Estimation: Percentages Detected

Sample Number:	GA2-16-02 [A]	GA2-16-02 [B]	GA2-16-02 [C]	GA2-16-03*	GA2-16-03 [A]
Asbestiform Minerals:					
Amosite					
Anthophyllite					
Chrysotile			30		
Crocidolite					
Tremolite-Actinolite					
TOTAL ASBESTOS	0	0	30	0	0
Other Fibrous Materials:					
Fibrous Glass					
Cellulose		Trace <1%		Trace <1%	Trace <1%
Synthetics					
Other:					
Percent Nonfibrous Material	100	99	70	99	99

* Composite analysis (multilayered sample, see individual layer analyses).

Analyst: Jeff Wingerter

Date: 11/07/92

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RESULTS OF BULK ASBESTOS SAMPLE ANALYSIS BY POLARIZED LIGHT MICROSCOPY (PLM) EPA-600/M4-82-020

Client: **Pickering Firm Inc.** LGN: **302994**

Project ID: **11962.01, Jax Coe, Various, CR Layton G'ville** Page: 6 of 13

Sample Description:

Sample Number	Sample Date	Description
GA2-16-03 [B]	10/22/92	Adhesive
GA2-17-01*	10/22/92	Floor tile with mastic
GA2-17-01 [A]	10/22/92	Floor tile
GA2-17-01 [B]	10/22/92	Mastic
GA2-17-02	10/22/92	Floor tile

Results of PLM Analysis: Visual Area Estimation: Percentages Detected

Sample Number:	GA2-16-03 [B]	GA2-17-01*	GA2-17-01 [A]	GA2-17-01 [B]	GA2-17-02
Asbestiform Minerals:					
Amosite					
Anthophyllite					
Chrysotile		9	8	30	8
Crocidolite					
Tremolite-Actinolite					
TOTAL ASBESTOS	0	9	8	30	8
Other Fibrous Materials:					
Fibrous Glass					
Cellulose	Trace <1%				
Synthetics					
Other:					
Percent Nonfibrous Material	99	91	92	70	92

* Composite analysis (multilayered sample, see individual layer analyses).

Analyst: Jeff Wingerter Date: 11/07/92

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RESULTS OF BULK ASBESTOS SAMPLE ANALYSIS BY POLARIZED LIGHT MICROSCOPY (PLM) EPA-600/M4-82-020

Client: **Pickering Firm Inc.** LGN: **302994**

Project ID: **11962.01, Jax Coe, Various, CR Layton G'ville** Page: 7 of 13

Sample Description:

Sample Number	Sample Date	Description
GA2-17-03*	10/22/92	Floor tile with mastic
GA2-17-03 [A]	10/22/92	Floor tile
GA2-17-03 [B]	10/22/92	Mastic
GA2-18-01*	10/22/92	Floor tile with mastic
GA2-18-01 [A]	10/22/92	Floor tile

Results of PLM Analysis: Visual Area Estimation: Percentages Detected

Sample Number:	GA2-17-03*	GA2-17-03 [A]	GA2-17-03 [B]	GA2-18-01*	GA2-18-01 [A]
Asbestiform Minerals:					
Amosite					
Anthophyllite					
Chrysotile	11	10	30	26	25
Crocidolite					
Tremolite-Actinolite					
TOTAL ASBESTOS	11	10	30	26	25
Other Fibrous Materials:					
Fibrous Glass					
Cellulose					
Synthetics					
Other:					
Percent Nonfibrous Material	89	90	70	74	75

* Composite analysis (multilayered sample, see individual layer analyses).

Analyst: Jeff Wingerter Date: 11/07/92

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RESULTS OF BULK ASBESTOS SAMPLE ANALYSIS BY POLARIZED LIGHT MICROSCOPY (PLM) EPA-600/M4-82-020

Client: **Pickering Firm Inc.**

LGN: **302994**

Project ID: **11962.01, Jax Coe, Various, CR Layton G'ville**

Sample Description:

Sample Number	Sample Date	Description
GA2-18-01 [B]	10/22/92	Mastic
GA2-18-02*	10/22/92	Floor tile with mastic
GA2-18-02 [A]	10/22/92	Floor tile
GA2-18-02 [B]	10/22/92	Mastic
GA2-18-03*	10/22/92	Floor tile with mastic

Results of PLM Analysis: Visual Area Estimation; Percentages Detected

Sample Number:	GA2-18-01 [B]	GA2-18-02*	GA2-18-02 [A]	GA2-18-02 [B]	GA2-18-03*
Asbestiform Minerals:					
Amosite					
Anthophyllite					
Chrysotile	30	26	25	30	26
Crocidolite					
Tremolite-Actinolite					
TOTAL ASBESTOS	30	26	25	30	26
Other Fibrous Materials:					
Fibrous Glass					
Cellulose					
Synthetics					
Other:					
Percent Nonfibrous Material	70	74	75	70	74

* Composite analysis (multilayered sample, see individual layer analyses).

Analyst: Jeff Wingerter

Date: 11/07/92

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RESULTS OF BULK ASBESTOS SAMPLE ANALYSIS BY POLARIZED LIGHT MICROSCOPY (PLM) EPA-600/M4-82-020

Client: **Pickering Firm Inc.**

LGN: **302994**

Project ID: **11962.01, Jax Coe, Various, CR Layton G'ville**

Sample Description:

Sample Number	Sample Date	Description
GA2-18-03 [A]	10/22/92	Floor tile
GA2-18-03 [B]	10/22/92	Mastic
GA2-19-01*	10/22/92	Floor tile with mastic
GA2-19-01 [A]	10/22/92	Floor tile
GA2-19-01 [B]	10/22/92	Mastic

Results of PLM Analysis: Visual Area Estimation: Percentages Detected

Sample Number:	GA2-18-03 [A]	GA2-18-03 [B]	GA2-19-01*	GA2-19-01 [A]	GA2-19-01 [B]
Asbestiform Minerals:					
Amosite					
Anthophyllite					
Chrysotile	25	30	6	5	30
Crocidolite					
Tremolite-Actinolite					
TOTAL ASBESTOS	25	30	6	5	30
Other Fibrous Materials:					
Fibrous Glass					
Cellulose					
Synthetics					
Other:					
Percent Nonfibrous Material	75	70	94	95	70

* Composite analysis (multilayered sample, see individual layer analyses).

Analyst: Jeff Wingerter

Date: 11/07/92

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RESULTS OF BULK ASBESTOS SAMPLE ANALYSIS BY POLARIZED LIGHT MICROSCOPY (PLM) EPA-600/M4-82-020

Client: **Pickering Firm Inc.** LGN: **302994**

Project ID: **11962.01, Jax Coe, Various, CR Layton G'ville**

Sample Description:

Sample Number	Sample Date	Description
GA2-19-02*	10/22/92	Floor tile with mastic
GA2-19-02 [A]	10/22/92	Floor tile
GA2-19-02 [B]	10/22/92	Mastic
GA2-19-03*	10/22/92	Floor tile with adhesive
GA2-19-03 [A]	10/22/92	Floor tile

Results of PLM Analysis: Visual Area Estimation: Percentages Detected

Sample Number:	GA2-19-02*	GA2-19-02 [A]	GA2-19-02 [B]	GA2-19-03*	GA2-19-03 [A]
Asbestiform Minerals:					
Amosite					
Anthophyllite					
Chrysotile	6	5	30	5	5
Crocidolite					
Tremolite-Actinolite					
TOTAL ASBESTOS	6	5	30	5	5
Other Fibrous Materials:					
Fibrous Glass					
Cellulose					
Synthetics				Trace <1%	
Other:					
Percent Nonfibrous Material	94	95	70	94	95

* Composite analysis (multilayered sample, see individual layer analyses).

Analyst: Jeff Wingerter Date: 11/07/92

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RESULTS OF BULK ASBESTOS SAMPLE ANALYSIS BY POLARIZED LIGHT MICROSCOPY (PLM) EPA-600/M4-82-020

Client: **Pickering Firm Inc.**

LGN: **302994**

Project ID: **11962.01, Jax Coe, Various, CR Layton G'ville**

Sample Description:

Sample Number	Sample Date	Description
GA2-19-03 [B]	10/22/92	Adhesive
GA2-20-01*	10/22/92	Floor tile with adhesive
GA2-20-01 [A]	10/22/92	Floor tile
GA2-20-01 [B]	10/22/92	Adhesive
GA2-21-01*	10/22/92	Floor tile with mastic

Results of PLM Analysis: Visual Area Estimation: Percentages Detected

Sample Number:	GA2-19-03 [B]	GA2-20-01*	GA2-20-01 [A]	GA2-20-01 [B]	GA2-21-01*
Asbestiform Minerals:					
Amosite					
Anthophyllite					
Chrysotile					
Crocidolite					Trace <1%
Tremolite-Actinolite					
TOTAL ASBESTOS	0	0	0	0	Trace <1%
Other Fibrous Materials:					
Fibrous Glass					
Cellulose	Trace <1%	3	2	5	4
Synthetics					
Other:					
Percent Nonfibrous Material	99	97	98	95	95

* Composite analysis (multilayered sample, see individual layer analyses).

Analyst: Jeff Wingerter

Date: 11/07/92

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FAX: (303) 420-1434

RESULTS OF BULK ASBESTOS SAMPLE ANALYSIS BY POLARIZED LIGHT MICROSCOPY (PLM) EPA-600/M4-82-020

Client: **Pickering Firm Inc.** LGN: **302994**

Project ID: **11962.01, Jax Coe, Various, CR Layton G'ville**

Sample Description:

Sample Number	Sample Date	Description
GA2-21-01 [A]	10/22/92	Floor tile
GA2-21-01 [B]	10/22/92	Mastic
GA2-22-01*	10/22/92	Floor tile with adhesive
GA2-22-01 [A]	10/22/92	Floor tile
GA2-22-01 [B]	10/22/92	Adhesive

Results of PLM Analysis: Visual Area Estimation: Percentages Detected

Sample Number:	GA2-21-01 [A]	GA2-21-01 [B]	GA2-22-01*	GA2-22-01 [A]	GA2-22-01 [B]
Asbestiform Minerals:					
Amosite					
Anthophyllite					
Chrysotile		30			
Crocidolite					
Tremolite-Actinolite					
TOTAL ASBESTOS	0	30	0	0	0
Other Fibrous Materials:					
Fibrous Glass					
Cellulose	4		5	4	5
Synthetics					
Other:					
Percent Nonfibrous Material	96	70	95	96	95

* Composite analysis (multilayered sample, see individual layer analyses).

Analyst: Jeff Wingerter

Date: 11/07/92

#140274F

FLoos Asb.

ANALYTICA SOLUTIONS
an Analytica Group company

18000 W. Highway 72
Golden, CO 80403-8299
(303) 420-4449
(800) 873-8707
FAX: (303) 420-1434

RESULTS OF BULK ASBESTOS SAMPLE ANALYSIS BY POLARIZED LIGHT MICROSCOPY (PLM) EPA-600/M4-82-020

Client: **Pickering Firm Inc.**

LGN: **302994**

Project ID: **11962.01, Jax Coe, Various, CR Layton G'ville**

Sample Description:

Sample Number	Sample Date	Description
GA2-23-01	10/22/92	Insulation
GA2-24-01	10/22/92	Ceiling tile

Results of PLM Analysis: Visual Area Estimation: Percentages Detected

Sample Number:	GA2-23-01	GA2-24-01			
Asbestiform Minerals:					
Amosite					
Anthophyllite					
Chrysotile	15				
Crocidolite					
Tremolite-Actinolite					
TOTAL ASBESTOS	15	0			
Other Fibrous Materials:					
Fibrous Glass	25	40			
Cellulose		30			
Synthetics					
Other:					
Percent Nonfibrous Material	60	30			

* Composite analysis (multilayered sample, see individual layer analyses).

Analyst: Jeff Wingerter

Date: 11/07/92

#140274F

FLOOS Asb.

CHAIN OF CUSTODY FORM

Pickering Environmental Consultants 1750 Madison Avenue, Suite 500 Memphis, TN 38104

Retain this form with bulk samples - Transmit a copy to Pickering Environmental with the hard copy of the sample results.

JOB NUMBER: 11962.01 **JOB NAME:** JAX COE - VARIOUS
BUILDING NAME/NO. CZ LAYTON **DATE:** 10-22-92

Each sample must be listed individually - Do not group sample numbers

SAMPLE NUMBERS	DATE & INIT. OF SENDER	DATE & INIT. OF RECPT.	DATE & INIT. OF SENDER	DATE & INIT. OF RECPT.
GAZ-01-01	10/22/92	/ /	/ /	/ /
GAZ-01-02	10/22/92	/ /	/ /	/ /
GAZ-01-03	10/22/92	/ /	/ /	/ /
GAZ-01-04	10/22/92	/ /	/ /	/ /
GAZ-02-01	10/22/92	/ /	/ /	/ /
GAZ-02-02	10/22/92	/ /	/ /	/ /
GAZ-02-03	10/22/92	/ /	/ /	/ /
GAZ-03-01	10/22/92	/ /	/ /	/ /
GAZ-03-02	10/22/92	/ /	/ /	/ /
GAZ-03-03	10/22/92	/ /	/ /	/ /
GAZ-03-04	10/22/92	/ /	/ /	/ /
GAZ-04-01	10/22/92	/ /	/ /	/ /
GAZ-04-02	10/22/92	/ /	/ /	/ /
GAZ-04-03	10/22/92	/ /	/ /	/ /
GAZ-04-04	10/22/92	/ /	/ /	/ /
GAZ-05-01	10/22/92	/ /	/ /	/ /
GAZ-05-02	10/22/92	/ /	/ /	/ /
GAZ-05-03	10/22/92	/ /	/ /	/ /
GAZ-05-04	10/22/92	/ /	/ /	/ /
GAZ-06-01	10/22/92	/ /	/ /	/ /

NAME AND ADDRESS OF LAB:

*SAMPLES WILL BE ARCHIVED WITH LAB OF RECORD UNLESS NOTED

RQ HAZARDOUS SUBSTANCE
SOLID, N.O.S. (ASBESTOS), NA - 9188
ORME - E

#140274F

FL 005 Asb.

CHAIN OF CUSTODY FORM

Pickering Environmental Consultants 1750 Madison Avenue, Suite 500 Memphis, TN 38104

Retain this form with bulk samples - Transmit a copy to Pickering Environmental with the hard copy of the sample results.

302-993

JOB NUMBER: 11962.01 **JOB NAME:** Jax COE - Various

BUILDING NAME/NO. GR LAWTON GIVENS **DATE:** 10-22-92

Each sample must be listed individually - Do not group sample numbers

SAMPLE NUMBERS	DATE & INIT. OF SENDER	DATE & INIT. OF RECPT.	DATE & INIT. OF SENDER	DATE & INIT. OF RECPT.
GA2-06-02	10/22/92	/ /	/ /	/ /
GA2-06-03	10/22/92	/ /	/ /	/ /
GA2-07-01	10/22/92	/ /	/ /	/ /
GA2-07-02	10/22/92	/ /	/ /	/ /
GA2-07-03	10/22/92	/ /	/ /	/ /
GA2-08-01	10/22/92	/ /	/ /	/ /
GA2-08-02	10/22/92	/ /	/ /	/ /
GA2-08-03	10/22/92	/ /	/ /	/ /
GA2-09-01	10/22/92	/ /	/ /	/ /
GA2-10-01	10/22/92	/ /	/ /	/ /
GA2-10-02	10/22/92	/ /	/ /	/ /
GA2-10-03	10/22/92	/ /	/ /	/ /
GA2-10-04	10/22/92	/ /	/ /	/ /
GA2-11-01	10/22/92	/ /	/ /	/ /
GA2-11-02	10/22/92	/ /	/ /	/ /
~~GA2-11-03~~	/ /	/ /	/ /	/ /
GA2-12-01	10/22/92	/ /	/ /	/ /
GA2-12-02	10/22/92	/ /	/ /	/ /
GA2-12-03	10/22/92	/ /	/ /	/ /
GA2-13-01	10/22/92	/ /	/ /	/ /

NAME AND ADDRESS OF LAB:

*SAMPLES WILL BE ARCHIVED WITH LAB OF RECORD UNLESS NOTED

RQ HAZARDOUS SUBSTANCE
SOLID, N.O.S. (ASBESTOS), NA - 9188
ORME - E

#140274F

FL 005 Asb.

CHAIN OF CUSTODY FORM

Pickering Environmental Consultants 1750 Madison Avenue, Suite 500 Memphis, TN 38104

Retain this form with bulk samples - Transmit a copy to Pickering Environmental with the hard copy of the sample results.

302991

JOB NUMBER: 11962.01 **JOB NAME:** Jax Cos - Various

BUILDING NAME/NO. CR Layton Gville **DATE:** 10-22-92

Each sample must be listed individually - Do not group sample numbers

SAMPLE NUMBERS	DATE & INIT. OF SENDER	DATE & INIT. OF RECPT.	DATE & INIT. OF SENDER	DATE & INIT. OF RECPT.
GA2-13-02	10/22/92	/ /	/ /	/ /
GA2-13-03	10/22/92	/ /	/ /	/ /
GA2-14-01	10/22/92	/ /	/ /	/ /
GA2-14-02	10/22/92	/ /	/ /	/ /
GA2-14-03	10/22/92	/ /	/ /	/ /
GA2-15-01	10/22/92	/ /	/ /	/ /
GA2-15-02	10/22/92	/ /	/ /	/ /
GA2-15-03	10/22/92	/ /	/ /	/ /
GA2-16-01	10/22/92	/ /	/ /	/ /
GA2-16-02	10/22/92	/ /	/ /	/ /
GA2-16-03	10/22/92	/ /	/ /	/ /
GA2-17-01	10/22/92	/ /	/ /	/ /
GA2-17-02	10/22/92	/ /	/ /	/ /
GA2-17-03	10/22/92	/ /	/ /	/ /
GA2-18-01	10/22/92	/ /	/ /	/ /
GA2-18-02	10/22/92	/ /	/ /	/ /
GA2-18-03	10/22/92	/ /	/ /	/ /
GA2-19-01	10/22/92	/ /	/ /	/ /
GA2-19-02	10/22/92	/ /	/ /	/ /
GA2-19-03	10/22/92	/ /	/ /	/ /

NAME AND ADDRESS OF LAB: _____

*SAMPLES WILL BE ARCHIVED WITH LAB OF RECORD UNLESS NOTED

RQ HAZARDOUS SUBSTANCE
SOLID, N.O.S. (ASBESTOS), NA - 9188
ORME - E

#140274F

Floos Asb.

CHAIN OF CUSTODY FORM

Pickering Environmental Consultants 1750 Madison Avenue, Suite 500 Memphis, TN 38104

302994

Retain this form with bulk samples - Transmit a copy to Pickering Environmental with the hard copy of the sample results.

JOB NUMBER: 11962.01 JOB NAME: Jax Coe - Various

BUILDING NAME/NO. CR Layton G'ville DATE: 10-22-92

Each sample must be listed individually - Do not group sample numbers

SAMPLE NUMBERS	DATE & INIT. OF SENDER	DATE & INIT. OF RECPT.	DATE & INIT. OF SENDER	DATE & INIT. OF RECPT.
GA2-20-01	10/22/92 JR	/ / JR	/ /	/ /
GA2-21-01	10/22/92 JR	/ / JR	/ /	/ /
GA2-22-01	10/22/92 JR	/ / JR	/ /	/ /
GA2-23-01	10/22/92 JR	/ / JR	/ /	/ /
GA2-24-01	10/22/92 JR	/ / JR	/ /	/ /
	/ /	/ /	/ /	/ /
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NAME AND ADDRESS OF LAB: ______________________

*SAMPLES WILL BE ARCHIVED WITH LAB OF RECORD UNLESS NOTED

RQ HAZARDOUS SUBSTANCE
SOLID, N.O.S. (ASBESTOS), NA - 9188
ORME - E

#140274F

FL 005 Asb.

EnviroChem, Inc.

Asbestos and Analytical Laboratories

CLIENT : Pickering, Inc.
ADDRESS: 1750 Madison Ave., Suite 500
Memphis, Tennessee 38104

PROJECT: Jaxcose Various Florida
DATE TESTED: 11/04/92

CLIENT NO. : E92-443
LABORATORY NO.: 2730

METHOD : PLM Test method outlined by the EPA Interim Method for the Determination of Asbestos in Bulk Insulation Samples.

SAMPLE ID NUMBER		07	08	09	10	11	12
SAMPLE DESCRIPTION		JAX-14-01-QC CL Burpee	GA1-01-01-QC Gainesville	GA1-09-01-QC Gainesville	GA1-16-01-QC Gainesville	GA2-05-01-QC CR Layton	GA2-11-01-QC CR Layton
SAMPLE COLOR		Green	Wht/Blk	Brn/Wht	Brown	Wht/Brn	Brn/Blk
ANALYST		Brian Williams	Brian Williams	Brian Williams	Brian Williams	Brian Williams	Brian Williams
ESTIMATED PERCENT ASBESTOS MINERALS	CHRYSOTILE	2				10	
	AMOSITE						
	CROCIDOLITE						
	OTHER						
	TOTAL PERCENT	2	N/D	N/D	N/D	10	N/D
ESTIMATED PERCENT OTHER FIBROUS MINERALS	MINERAL WOOL						1
	FIBER GLASS		15				
	CELLULOSE	2	5	5	2	40	45
	SYNTHETICS						
	OTHER						
OTHER NON-FIBROUS MINERALS NOTED	CARBONATES	x	x	x	x	x	x
	MORTAR						
	MICACEOUS PART						
	PERLITE						
	QUARTZ	x	x	x	x	x	x
	BINDER					x	
	OTHER			x Glue/Vinyl	x Glue		x Tar

The reported test results relate only to the items tested. The percentages reported are only estimates with an accuracy of +/- 10 to 15%. The EPA has no established guidelines for analyzing floor tile samples therefore asbestos fibers may not be detected in floor tile samples analyzed. N/D indicates asbestos fibers were not detected using PLM Methods. EnviroChem Inc. will retain samples for a period of 30 days. If no instructions are received, they will be disposed of at that time. It is certified by the signature below that laboratory identified above is accredited by the National Bureau of Standards under the NVLAP program for polarized light microscope (PLM) analysis. This report is not to be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government.

DATA REVIEW: _____ REPORT DATE: 11/04/92

#140274F

FLoos Asb.

EnviroChem, Inc.

Asbestos and Analytical Laboratories

CLIENT : Pickering, Inc.
ADDRESS: 1750 Madison Ave., Suite 500
Memphis, Tennessee 38104

PROJECT: Jaxcose Various Florida
DATE TESTED: 11/04/92

CLIENT NO. : E92-443
LABORATORY NO.: 2730

METHOD : PLM Test method outlined by the EPA Interim Method for the Determination of Asbestos in Bulk Insulation Samples.

SAMPLE ID NUMBER		13	14	15	16	17	18
SAMPLE DESCRIPTION		GA2-18-01-QC CR Layton	WPB-08-01-QC Babcock	WPB-09-03-QC Babcock	WPB-11-03-QC Babcock	TA1-16-05-QC Tampa	TA1-25-01-QC Tampa
SAMPLE COLOR		Brn/Blk	Blk/Brn	White	Grey	Wht/Tan	Grey
ANALYST		Brian Williams	Brian Williams	Brian Williams	Brian Williams	Brian Williams	Brian Williams
ESTIMATED PERCENT ASBESTOS MINERALS	CHRYSOTILE	10	10				30
	AMOSITE						
	CROCIDOLITE						
	OTHER	1 in Mastic					
	TOTAL PERCENT	11	10	N/D	N/D	N/D	30
ESTIMATED PERCENT OTHER FIBROUS MINERALS	MINERAL WOOL						
	FIBER GLASS						
	CELLULOSE	5	15	2	2	2	5
	SYNTHETICS						
	OTHER						
OTHER NON-FIBROUS MINERALS NOTED	CARBONATES	x	x	x	x	x	x
	MORTAR						
	MICACEOUS PART						
	PERLITE						
	QUARTZ	x	x	x	x	x	x
	BINDER				x	x	x
	OTHER	x Mastic	x Foilpaper/Mast.			x Paint	x Paint

The reported test results relate only to the items tested. The percentages reported are only estimates with an accuracy of +/- 10 to 15%. The EPA has no established guidelines for analyzing floor tile samples therefore asbestos fibers may not be detected in floor tile samples analyzed. N/D indicates asbestos fibers were not detected using PLM Methods. EnviroChem Inc. will retain samples for a period of 30 days. If no instructions are received, they will be disposed of at that time. It is certified by the signature below that laboratory identified above is accredited by the National Bureau of Standards under the NVLAP program for polarized light microscope (PLM) analysis. This report is not to be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government.

DATA REVIEW: _____ REPORT DATE: 11/04/92

#140274F

Floos Asb.

CHAIN OF CUSTODY FORM

Pickering Environmental Consultants 1750 Madison Avenue, Suite 500 Memphis, TN 38104

Retain this form with bulk samples - Transmit a copy to Pickering Environmental with the hard copy of the sample results.

JOB NUMBER: 11962.01 **JOB NAME:** Jax COC - Various
BUILDING NAME/NO. CE LAYTON-GIVING **DATE:** 10-22-92

Each sample must be listed individually - Do not group sample numbers

	SAMPLE NUMBERS	DATE & INIT. OF SENDER	DATE & INIT. OF RECPT.	DATE & INIT. OF SENDER	DATE & INIT. OF RECPT.
11	GA2-05-01-QC	10/22/92 CC	11/02/92 RW	/ /	/ /
12	GA2-11-01-QC	10/22/92 CC	11/02/92 RW	/ /	/ /
13	GA2-1B-01-QC	10/22/92 CC	11/02/92 RW	/ /	/ /
		/ /	/ /	/ /	/ /
		/ /	/ /	/ /	/ /
		/ /	/ /	/ /	/ /
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NAME AND ADDRESS OF LAB: ~~ES~~ Envirochem
4320 Midmost Dr
P.O. Box 16012 Mobile AL

*SAMPLES WILL BE ARCHIVED WITH LAB OF RECORD UNLESS NOTED

RQ HAZARDOUS SUBSTANCE
SOLID, N.O.S. (ASBESTOS), NA - 9188
ORME - E

#140274F

FLOOS Asb.

ANALYTICA SOLUTIONS
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18000 W. Highway 72
Golden, CO 80403-8299
(303) 420-4449
(800) 873-8707
FAX: (303) 420-1434

November 12, 1992

Mr. Nat Whitten
Pickering Firm Inc.
1750 Madison
Suite 500
Memphis, TN 38104

Re: LGN 800083 Project: 11962.01, Jax Coe-Various

Dear Mr. Nat Whitten:

The paint samples recently submitted to our laboratory have been analyzed by flame atomic absorption for lead according to EPA SW846 methods, as recommended by HUD. The results of these analyses are summarized in the enclosed table.

Also enclosed is a copy of your Chain of Custody form containing your field data.

Please call if you have any questions about this work.

Sincerely,

Roger Shay

General Manager

Enclosures

#140274F
FL oos Asb

ANALYTICA SOLUTIONS
an Analytica Group company

18000 W. Highway 72
Golden, CO 80403-8299
(303) 420-4449
(800) 873-8707
FAX: (303) 420-1434

RESULTS OF LEAD ANALYSIS BY
FLAME ATOMIC ABSORPTION
PAINT SAMPLE

Client: **Pickering Firm Inc.** LGN: **800083**

Project ID: **11962.01, Jax Coe-Various** Page: 1 of 6

Sample Number	Sample Date	Description
GA2-LBP-01	10/22/92	
GA2-LBP-02	10/22/92	
GA2-LBP-03	10/22/92	
GA2-LBP-04	10/22/92	
GA2-LBP-05	10/22/92	[Not enough sample to analyze]

lts of LEAD Analysis:

Sample Number	% By Weight	Detection Limit
GA2-LBP-01	Not Detected	(0.0040)
GA2-LBP-02	0.120	(0.0050)
GA2-LBP-03	0.300	(0.0050)
GA2-LBP-04	0.300	(0.0050)
GA2-LBP-05	Not analyzed	

Analyst: RAY THERIAULT

Date: 11/09/92

#140274F

FL 005 Asb

ANALYTICA SOLUTIONS
an Analytica Group company

18000 W. Highway 72
Golden, CO 80403-8299
(303) 420-4449
(800) 873-8707
FAX. (303) 420-1434

RESULTS OF LEAD ANALYSIS BY
FLAME ATOMIC ABSORPTION
PAINT SAMPLE

Client: **Pickering Firm Inc.** LGN: **800083**

Project ID: **11962.01, Jax Coe-Various** Page: 2 of 6

Sample Number	Sample Date	Description
GA2-LBP-06	10/22/92	[Not enough sample to analyze]
GA2-LBP-07	10/22/92	
GA2-LBP-08	10/22/92	
GA2-LBP-09	10/22/92	
GA2-LBP-10	10/22/92	

Results of LEAD Analysis:

Sample Number	% By Weight	Detection Limit
GA2-LBP-06	Not analyzed	
GA2-LBP-07	1.400	(0.0080)
GA2-LBP-08	0.190	(0.0020)
GA2-LBP-09	0.085	(0.0020)
GA2-LBP-10	0.350	(0.0060)

Analyst: RAY THERIAULT

Date: 11/09/92

#140274F

FL 005 Asb.

ANALYTICA SOLUTIONS
an Analytica Group company

18000 W. Highway 72
Golden, CO 80403-8299
(303) 420-4449
(800) 873-8707
FAX (303) 420-1434

RESULTS OF LEAD ANALYSIS BY
FLAME ATOMIC ABSORPTION
PAINT SAMPLE

Client: **Pickering Firm Inc.** LGN: **800083**

Project ID: **11962.01, Jax Coe-Various** Page: 3 of 6

Sample Number	Sample Date	Description
GA2-LBP-11	10/22/92	
GA2-LBP-12	10/22/92	
GA2-LBP-13	10/22/92	
GA2-LBP-14	10/22/92	
GA2-LBP-15	10/22/92	

Results of LEAD Analysis:

Sample Number	% By Weight	Detection Limit
GA2-LBP-11	0.089	(0.0020)
GA2-LBP-12	0.330	(0.0100)
GA2-LBP-13	0.120	(0.0030)
GA2-LBP-14	0.200	(0.0040)
GA2-LBP-15	0.098	(0.0050)

Analyst: RAY THERIAULT

Date: 11/09/92

#140274F

FL oos Asb.

ANALYTICA SOLUTIONS
an Analytica Group company

18000 W. Highway 72
Golden, CO 80403-8299
(303) 420-4449
(800) 873-8707
FAX: (303) 420-1434

RESULTS OF LEAD ANALYSIS BY
FLAME ATOMIC ABSORPTION
PAINT SAMPLE

Client: **Pickering Firm Inc.**

LGN: **800083**

Project ID: **11962.01, Jax Coe-Various**

Sample Number	Sample Date	Description
GA2-LBP-16	10/22/92	
GA2-LBP-17	10/22/92	
GA2-LBP-18	10/22/92	[Not enough sample to analyze]
GA2-LBP-19	10/22/92	
GA2-LBP-20	10/22/92	[Not enough sample to analyze]

lts of LEAD Analysis:

Sample Number	% By Weight	Detection Limit
GA2-LBP-16	0.440	(0.0020)
GA2-LBP-17	0.091	(0.0010)
GA2-LBP-18	Not analyzed	
GA2-LBP-19	Not Detected	(0.0050)
GA2-LBP-20	Not analyzed	

Analyst: RAY THERIAULT

Date: 11/09/92

#140274F

Floors Asb.

ANALYTICA SOLUTIONS
an Analytica Group company

15000 W. Highway 72
Golden, CO 80403-8299
(303) 420-4449
(800) 873-8707
FAX (303) 420-1434

RESULTS OF LEAD ANALYSIS BY FLAME ATOMIC ABSORPTION PAINT SAMPLE

Client: **Pickering Firm Inc.**

LGN: **800083**

Project ID: **11962.01, Jax Coe-Various**

Sample Number	Sample Date	Description
GA2-LBP-21	10/22/92	
GA2-LBP-22	10/22/92	
GA2-LBP-23	10/22/92	
GA2-LBP-24	10/22/92	
GA2-LBP-25	10/22/92	

Results of LEAD Analysis:

Sample Number	% By Weight	Detection Limit
GA2-LBP-21	1.200	(0.0100)
GA2-LBP-22	0.890	(0.0080)
GA2-LBP-23	7.900	(0.0200)
GA2-LBP-24	2.900	(0.0100)
GA2-LBP-25	2.100	(0.0100)

Analyst: RT Theriault
RAY THERIAULT

Date: 11/09/92

#140274F

FL 005 Asb.

ANALYTICA SOLUTIONS
an Analytica Group company

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Golden, CO 80403-8299
(303) 420-4449
(800) 873-8707
FAX: (303) 420-1434

RESULTS OF LEAD ANALYSIS BY FLAME ATOMIC ABSORPTION PAINT SAMPLE

Client: Pickering Firm Inc.

LGN: 800083

Project ID: 11962.01, Jax Coe-Various

Sample Number	Sample Date	Description
GA2-LBP-26	10/22/92	
GA2-LBP-27	10/22/92	

lts of LEAD Analysis:

Sample Number	% By Weight	Detection Limit
GA2-LBP-26	0.960	(0.0030)
GA2-LBP-27	0.400	(0.0010)

Analyst: RAY THERIAULT

Date: 11/09/92

FL 005 Asb. #140274F

CHAIN OF CUSTODY FORM

Pickering Environmental Consultants 1750 Madison Avenue, Suite 500 Memphis, TN 38104

Retain this form with bulk samples - Transmit a copy to Pickering Environmental with the hard copy of the sample results. 800083

JOB NUMBER: 11962.01 **JOB NAME:** Jax Cos - Various
BUILDING NAME/NO. CR LAYTON G'VILLE **DATE:** 10-22-92

Each sample must be listed individually - Do not group sample numbers

SAMPLE NUMBERS	DATE & INIT. OF SENDER	DATE & INIT. OF RECPT.	DATE & INIT. OF SENDER	DATE & INIT. OF RECPT.
GA2-LBP-01	10/22/92	/ /	/ /	/ /
GA2-LBP-02	10/22/92	/ /	/ /	/ /
GA2-LBP-03	10/22/92	/ /	/ /	/ /
GA2-LBP-04	10/22/92	/ /	/ /	/ /
GA2-LBP-05	10/22/92	/ /	/ /	/ /
GA2-LBP-06	10/22/92	/ /	/ /	/ /
GA2-LBP-07	10/22/92	/ /	/ /	/ /
GA2-LBP-08	10/22/92	/ /	/ /	/ /
GA2-LBP-09	10/22/92	/ /	/ /	/ /
GA2-LBP-10	10/22/92	/ /	/ /	/ /
GA2-LBP-11	10/22/92	/ /	/ /	/ /
GA2-LBP-12	10/22/92	/ /	/ /	/ /
GA2-LBP-13	10/22/92	/ /	/ /	/ /
GA2-LBP-14	10/22/92	/ /	/ /	/ /
GA2-LBP-15	10/22/92	/ /	/ /	/ /
GA2-LBP-16	10/22/92	/ /	/ /	/ /
GA2-LBP-17	10/22/92	/ /	/ /	/ /
GA2-LBP-18	10/22/92	/ /	/ /	/ /
GA2-LBP-19	10/22/92	/ /	/ /	/ /
GA2-LBP-20	10/22/92	/ /	/ /	/ /

NAME AND ADDRESS OF LAB: AMA by TICA
18001 W Highway 72
Golden CO 80403

*SAMPLES WILL BE ARCHIVED WITH LAB OF RECORD UNLESS NOTED

RQ HAZARDOUS SUBSTANCE
SOLID, N.O.S. (ASBESTOS), NA - 9188
ORME - E

#140274F

FL 005 Gsb

CHAIN OF CUSTODY FORM

Pickering Environmental Consultants 1750 Madison Avenue, Suite 500 Memphis, TN 38104

800883

Retain this form with bulk samples - Transmit a copy to Pickering Environmental with the hard copy of the sample results.

JOB NUMBER: 11962.01 **JOB NAME:** Jax Coe - Various

BUILDING NAME/NO. CE Layton - Garage **DATE:** 10-22-92

Each sample must be listed individually - Do not group sample numbers

SAMPLE NUMBERS	DATE & INIT. OF SENDER	DATE & INIT. OF RECPT.	DATE & INIT. OF SENDER	DATE & INIT. OF RECPT.
GAZ-LBP-21	10/22/92	/ /	/ /	/ /
GAZ-LBP-22	10/22/92	/ /	/ /	/ /
GAZ-LBP-23	10/22/92	/ /	/ /	/ /
GAZ-LBP-24	10/22/92	/ /	/ /	/ /
GAZ-LBP-25	10/22/92	/ /	/ /	/ /
GAZ-LBP-26	10/22/92	/ /	/ /	/ /
GAZ-LBP-27	10/22/92	/ /	/ /	/ /
	/ /	/ /	/ /	/ /
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NAME AND ADDRESS OF LAB: Analytica
18000 W. Highway 72
Golden CO 80403

*SAMPLES WILL BE ARCHIVED WITH LAB OF RECORD UNLESS NOTED

RQ HAZARDOUS SUBSTANCE
SOLID, N.O.S. (ASBESTOS), NA - 9188
ORME - E

#140274F

FL 005 Asb.

EnviroChem, Inc.

Asbestos and Analytical Laboratories

December 1, 1992

PICKERING ENVIRONMENTAL
1750 Madison Ave.
Suite 500
Memphis, TENN 38104
ATN: Mr. Curt Craig

Dear: Mr. Curt Craig:

Below are the results of analysis of 3 samples received for examination on November 4, 1992:

Sample I.D. AA11515
Sample Type: PAINT
Sample collector: CLIENT
Lab submittal date: 11/04/92

Client Code: 443-PICK
Location Description: GA2-LBP-10QC
Sample collection date: 11/02/92
Time: 10:30

TEST PARAMETER	UNITS	TEST RESULT	DETECTION LIMIT
(16) LEAD, Pb	ppm	37	10

Sample I.D. AA11516
Sample Type: PAINT
Sample collector: CLIENT
Lab submittal date: 11/04/92

Client Code: 443-PICK
Location Description: GA2-LBP-12QC
Sample collection date: 11/02/92
Time: 10:30

TEST PARAMETER	UNITS	TEST RESULT	DETECTION LIMIT
(16) LEAD, Pb	ppm	3332	10

Sample I.D. AA11517
Sample Type: PAINT
Sample collector: CLIENT
Lab submittal date: 11/04/92

Client Code: 443-PICK
Location Description: GA2-LBP-18QC
Sample collection date: 11/02/92
Time: 10:30

TEST PARAMETER	UNITS	TEST RESULT	DETECTION LIMIT
(16) LEAD, Pb	ppm	71	10

#140274F

FL 005 Asb.

CHAIN OF CUSTODY FORM

Pickering Environmental Consultants 1750 Madison Avenue, Suite 500 Memphis, TN 38104

Retain this form with bulk samples - Transmit a copy to Pickering Environmental with the hard copy of the sample results.

JOB NUMBER: 11962.01 **JOB NAME:** VARIOUS FLORIDA
BUILDING NAME/NO. SR LAYTONE GAINESVILLE **DATE:** 11-2-92

Each sample must be listed individually - Do not group sample numbers

SAMPLE NUMBERS	DATE & INIT. OF SENDER	DATE & INIT. OF RECPT.	DATE & INIT. OF SENDER	DATE & INIT. OF RECPT.
1515,14 GA2-LBP-10QC	11/2/92 MC	11/4/92 DD	/ /	/ /
1516,15 GA2-LBP-12QC	11/2/92 MC	11/4/92 DD	/ /	/ /
1517,16 GA2-LBP-18QC	11/2/92 MC	11/4/92 DD	/ /	/ /
	/ /	/ /	/ /	/ /
	/ /	/ /	/ /	/ /
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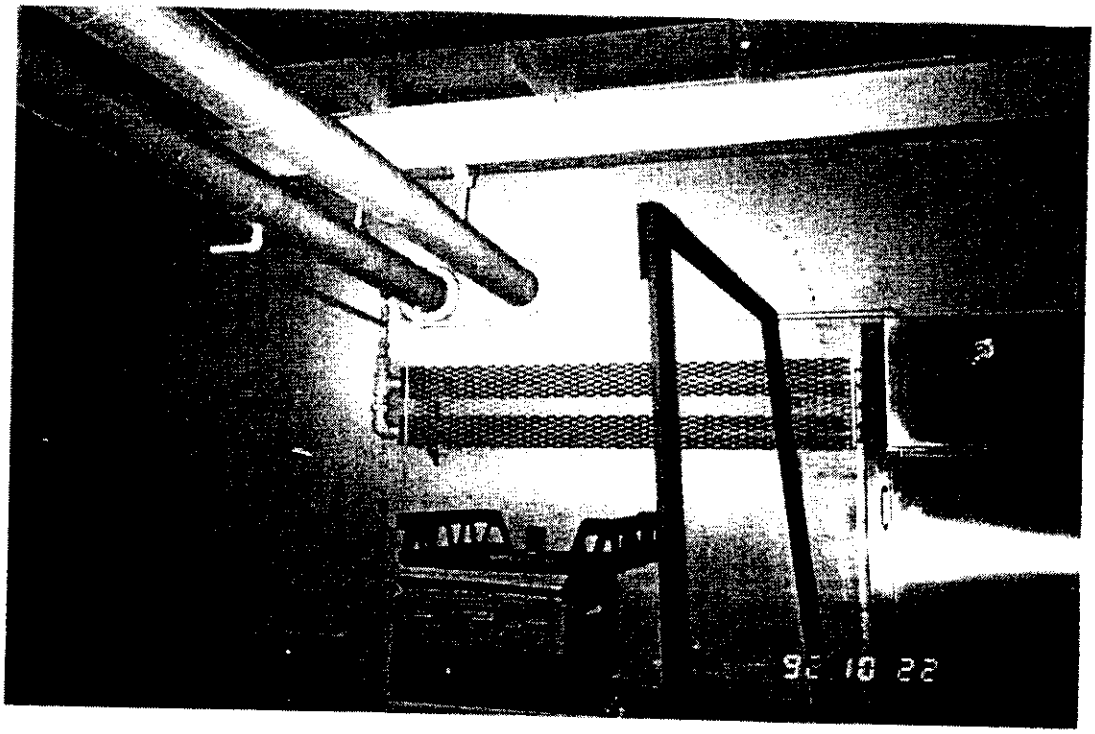
NAME AND ADDRESS OF LAB:

*SAMPLES WILL BE ARCHIVED WITH LAB OF RECORD UNLESS NOTED

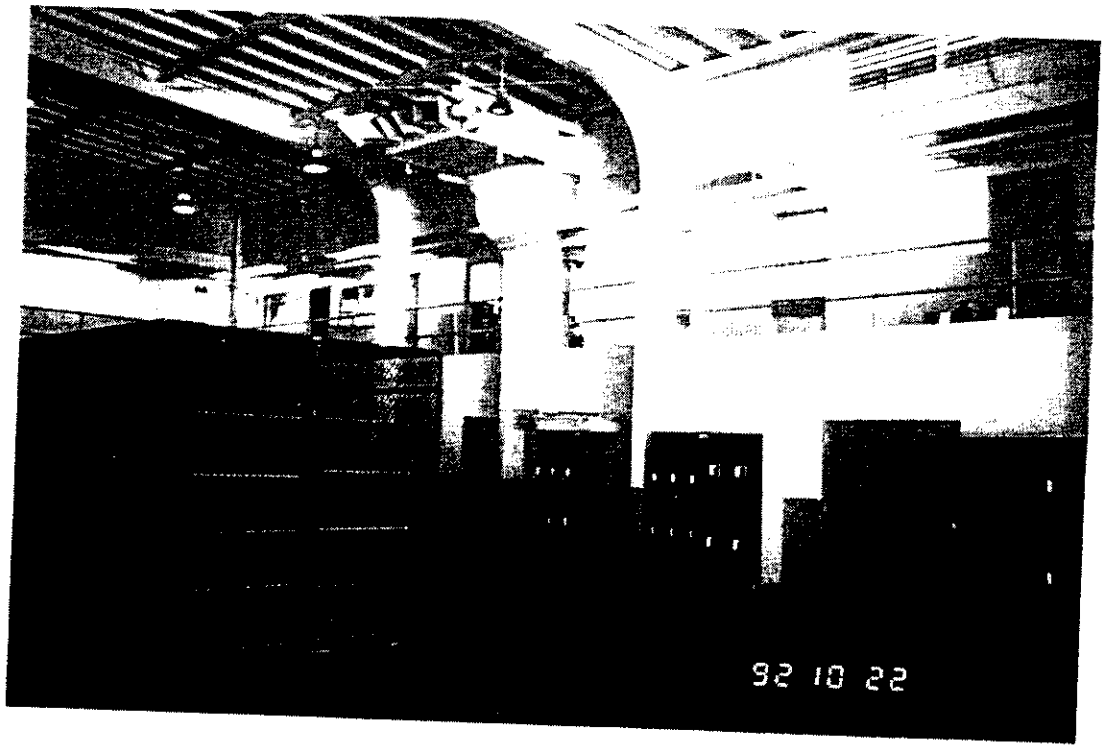
RQ HAZARDOUS SUBSTANCE
SOLID, N.O.S. (ASBESTOS), NA - 9188
ORME - E

#140274F

FL 005 Asb.



C. R. Layton USARC - Steam Pipe Insulation

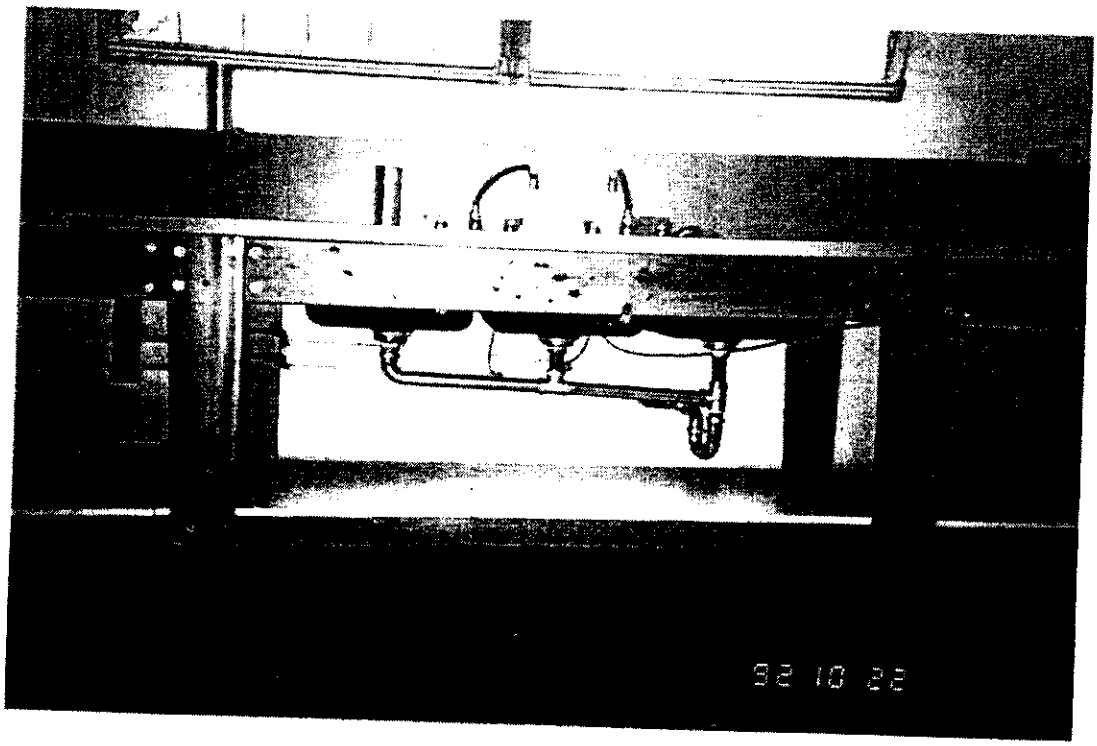


C. R. Layton USARC - Assembly Hall and Offices

FL 005 Asb

#140274F

C. R. Layton USARC - Exterior



C. R. Layton USARC - Sink Sound Attenuation

APPENDIX D—INSPECTOR'S CERTIFICATION

#140274F

M·E·T·A

Mayhew Environmental Training Associates

INCORPORATED

Certificate # 7ME02141202AIR0004

This is to certify that

John H. Clary

has on 2/14/12, in Tampa, FL
completed the requirements for asbestos accreditation under Section 206 of TSCA Title II, 15 U.S.C. 2646

AHERA Asbestos Building Inspector Refresher Course

as approved by the State of Florida and the U.S.E.P.A. under 40 C.F.R. 763 (AHERA)
on 2/14/12 - 2/14/12 and passed the associated examination on 2/14/12
with a score of 70% or better
CM = 0.5

KANSAS MAYHEW EST. 1985 INC. 1987 ENVIRONMENTAL TRAINING ASSOCIATES SAFETY IN GOD ALONE

Provider #: FL49-0001221

Course # : FL49-0004718

Soc. Sec #: XXX-XX-9245

Accreditation Expires: 2/14/13

W a Young

Instructor
Bill Young

President
Thomas Bradford Mayhew

M E T A - P.O. Box 786 - Lawrence KS 66044 - 800-444-6382

#140274E

Professional Service Industries, Inc.

Having dutifully completed candidacy and
having satisfied all other requirements

Chris Hundley

is hereby appointed as

Principal Consultant

for Asbestos Surveys/Monitoring, Lead Based Paint Surveys/Monitoring & Lead Based Paint Design/O&M Plans

And is hereby authorized to serve as such with all the authority, responsibilities, and honors pertaining thereto.
In testimony whereof the signatures of the President and Chief Operating Officer have been affixed this day, January 21, 2005

[psi] Information To Build On
Engineering • Consulting • Testing

Howell Branum, P.E.
President

Walter Goin, P.E.
Chief Operating Officer