
Limited NESHAP Renovation Asbestos Survey
(Revised 4/24/2014)

Bay Pines VA
Building 22, Second Floor
10000 Bay Pines Boulevard
Bay Pines, Pinellas County, Florida 33711

January 20, 2014

Prepared for:

Mr. Jim Charlton, PMP
Bay Pines VAHCS
PO Box 5005 (138P) Bldg. 35
Bay Pines, Florida 33744



Victor Rivera
Florida Certified Inspector

Date 4/28/14


Dr. Robert D. Mitchell
LAC# DD 0000007

Date April 28, 2014

AD# 31460

Prepared by:

APOLLO ENVIRONMENTAL, INC.

P.O. Box 239
Gibsonton, Florida
(800) 348-3181

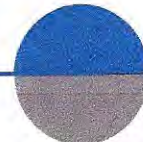


Table of Contents

Scope of Work.	1
Executive Summary.	1
Asbestos Containing Materials Summary Table.	1
Recommendations.	1
Location and Analysis Summary Table.	2
Site Characteristics.	3
Asbestos Survey Protocol.	4
General Conditions.	5

Appendix 1 Drawings - Sample Locations and ACM Locations

Appendix 2 Sample Analysis Sheets

Appendix 3 Survey Certifications

Scope of Work

At the request of Mr. Jim Charlton of Bay Pines VAHCS, Apollo Environmental, Inc. conducted a Limited NESHAP Renovation Asbestos Survey of Building 22 located on the campus of the Bay Pines VA at 10000 Bay Pines Boulevard in Bay Pines, Florida. The survey was limited to the interior of the Second Floor.

Executive Summary

On January 20, 2014, Mr. Victor Rivera, Surveyor/Inspector for Apollo Environmental, Inc., conducted the survey of the second floor of Building 22. Upon inspection of the area, 13 Homogeneous Areas (HA's) were identified as suspect asbestos-containing materials, and 34 bulk samples were collected. Laboratory analysis by Polarized Light Microscopy (PLM) found two of the HA's to be asbestos-containing materials (ACM).

ASBESTOS CONTAINING MATERIALS SUMMARY TABLE					
HA #	Location (within Scope of Work)	Material Description (ACM layers in bold)	Approx. Area	NESHAP Category	Friable or Non- Friable
4	both mechanical rooms (Rm. 207 & 253)	white mastic and foil wrap on foam glass insulation on chiller pipes	180 lf	Category I	N
9	Rm. 202, 204, 205, 210 thru 222, 224 thru 227, 233, 234	12" beige floor tile over black mastic	3,600 sf	Category I	N

Recommendations

1. A copy of this survey and any previous survey reports should remain on site during all renovation/demolition activities.
2. Non-friable ACM roofing, and flooring materials that will remain non-friable (**Category I**) may be removed prior to renovation activities by Asbestos trained personnel of their respective trades utilizing the industry standard practices. All other ACM expected to be impacted by renovation activities needs to be removed by a licensed asbestos abatement contractor prior to general construction activities.
3. If during the course of renovation activities, suspect materials are uncovered other than those detailed in this report, laboratory analysis of these materials is required prior to disturbance.
4. Compliance with OSHA regulations is required on all projects in which asbestos-containing materials are being disturbed.

Location and Analysis Summary of Homogeneous Materials						
HA #	Sample #(s)	Location (within Scope of Work)	Material Description	Approx. Area	ACM Type and Content	Condition
1	1,2	throughout most rooms (not in Rm. 234 thru 237, 239 thru 242, 244 thru 247, 251 thru 255 and Room 249)	suspended ceiling panels	11,400 sf	None Detected	Fair
2	3 thru 9	throughout	sheetrock walls w/ skimcoat	20,000 sf	None Detected	Fair
3	10,11	Room 245	carpet with glue	130 sf	None Detected	Fair
4	12,13,14	both mechanical rooms (Rm. 207 & 253)	white mastic and foil wrap on foam glass insulation on chiller pipes	180 lf	10% Chrysotile in white mastic	Fair
5	15,16,17	throughout	mastic on fiberglass on hot water piping	700 lf	None Detected	Fair
6	18,19,20	throughout (above suspended ceilings)	gray mastic on metal ductwork seams	200 sf	None Detected	Fair
7	21,22	waiting room and corridors throughout	12" floor tile (both blue & beige) w/ mastic	1,900 sf	None Detected	Fair
8	23,24	Rooms 239 thru 250 & Rooms 232 thru 237	carpet with glue	3,500 sf	None Detected	Fair
9	25,26	Rm. 202, 204, 205, 210 thru 222, 224 thru 227, 233, 234	12" beige floor tile over black mastic	3,600 sf	10% Chrysotile in black mastic	Fair
10	27,28	Rooms 210 thru 214 & Rooms 216 thru 222	sink undercoating	50 sf	None Detected	Fair
11	29,30	throughout	cove base with adhesive	1,400 sf	None Detected	Fair
12	31,32	Rooms 228 thru 231	ceramic wall tile with glue over sheetrock	250 sf	None Detected	Fair
13	33,34	throughout	concrete slab	23,800 sf	None Detected	Fair

Site Characteristics

- General:** Building 22 is a four-story building constructed of concrete block with stucco and a peaked roof. The second floor impacted by upcoming renovations totaled approximately 23,000 square feet of floor space.
- Ceilings:** Ceilings were open to the concrete deck in many of the rooms. No insulation was observed above the suspended ceilings. The following suspect ceiling material was identified and sampled:
HA 1: suspended ceiling panels
- Walls:** The exterior walls are concrete block with stucco. The following suspect wall materials were identified and sampled:
HA 2: sheetrock walls w/ skimcoat
HA 12: ceramic wall tile with glue over sheetrock
- Floors:** The floors are concrete slab. The following suspect flooring materials were identified and sampled:
HA 3: carpet with glue
HA 7: 12" floor tile (both blue & beige) w/ mastic
HA 8: carpet with glue
HA 9: 12" beige floor tile over black mastic
HA 13: concrete slab
- HVAC:** The chiller, located outside the scope of work, feeds air-handlers in both mechanical rooms (Rooms 207 & 253). The rubber vibration isolators are not suspect. The following suspect HVAC materials were identified and sampled:
HA 4: white mastic and foil wrap on foam glass insulation on chiller pipes
HA 6: gray mastic on metal ductwork seams
- Plum:** No water heater was found on the second floor. The following suspect plumbing material was identified and sampled:
HA 5: mastic on fiberglass on hot water piping
- Misc:** No door, window or baseboard caulking, or spray-applied fireproofing was observed. The following suspect miscellaneous materials were identified and sampled:
HA 10: sink undercoating
HA 11: cove base with adhesive

Asbestos Survey Protocol

The purpose of this survey was to locate and assess the suspect asbestos-containing materials as defined in the Scope of Work. The site was surveyed for the presence of materials that are typically suspect to contain asbestos. Prior to collecting any samples, distinct homogeneous sampling areas are identified and a sampling strategy is developed. A **homogeneous sampling area** can be described as any suspect asbestos material that is similar in appearance and texture, having similar installation, age, use and function.

Sampling locations are chosen to be representative of the homogeneous sampling area. While an effort is made to collect the samples randomly, samples are taken preferentially from as many rooms as possible and, for occupied facilities, from areas that are the least visible. As these materials were identified, bulk samples were obtained and placed into individual sample containers for transport to the Apollo Environmental laboratory. Suspect materials were sampled in an effort to obtain all representative layers that characterize their composition. All sample locations were identified by a numbered label. These numbers directly correspond with the numbers listed in the analytical results tables, laboratory analysis sheets and drawings.

Each suspected asbestos-containing material is classified as either friable or non-friable. **Friable** materials as defined by the EPA may be crumbled, pulverized, or reduced to a powder by hand pressure when dry. Friable asbestos-containing material is usually more hazardous than non-friable asbestos-containing material because it has greater potential to readily release airborne asbestos fibers.

Materials that were hidden or not accessible were not evaluated as part of this survey. These materials should be analyzed if and when they are located during any renovation or demolition. Materials visibly identifiable as non-asbestos (fibrous glass, foam rubber, wood, etc.) were not sampled.

The survey was performed as required by NESHAP, 40 CFR, Part 61, Subpart M. The sampling protocol/strategy is based on EPA Reg. 40 CFR, Part 763 (ASHERA) with modifications. As 40 CFR, Part 763, does not address the assessment of roofing and limited exterior components of the buildings, these additional materials were added in accordance with NESHAP, Part 61, Subpart M, and assessed using the 40 CFR, Part 763 protocols. Inventory, general supplies, etc. are not included as NESHAP building components. Additionally, samples are not collected in a completely random manner (see second paragraph of survey protocol).

Bulk asbestos samples were analyzed by Apollo by Polarized Light Microscopy (PLM) using dispersion staining techniques according to US EPA method 600/M4-82-020 incorporating visual estimates (area) of identified materials percentages and Apollo's NVLAP accredited procedures.

Any material that contains greater than one percent of any type of asbestos is considered by the EPA, OSHA and the State of Florida, an **asbestos-containing material (ACM)** and must be handled according to regulations. Apollo Environmental, Inc. participates in the National Voluntary Laboratory Accreditation Program (NVLAP), and other quality control programs for asbestos analysis.

General Conditions

1. **DOCUMENTS:** All documents, including but not limited to drawings, specifications, reports, field notes, laboratory test data, calculations, and estimates prepared by Apollo Environmental Incorporated (AEI) pursuant to this Agreement, shall be the sole property of AEI. Client agrees that all documents of any nature furnished to Client, if not paid for, will be returned upon demand and will not be used by Client for any purpose whatsoever. Client agrees that under no circumstances shall any documents produced by AEI pursuant to this Agreement be used at any location or for any project not expressly provided for in this Agreement without the written permission of AEI. Client agrees that reports of AEI issued pursuant to this Agreement are for the exclusive use of Client and that such reports, the name of AEI, or its insignia or seal shall not be used by or on behalf of Client under any circumstances in advertising to the general public, or in any public material or in any other manner without AEI's prior written approval. Client agrees to indemnify, defend, and hold AEI harmless from and against any claims, liabilities, loss or damage, including reasonable attorney's fees arising out of any use of the reports, name, insignia or seal of AEI without AEI's prior written approval. At the request and expense of Client, AEI will provide Client with copies of documents created in the performance of the work for a period not exceeding one year following submission of the report contemplated by this Agreement.

This assessment has been prepared for the sole use of the client. Its contents should not be relied upon by other parties without the express written consent of Apollo Environmental, Inc., and the client.

2. The information and conclusions presented in his report are valid only for the circumstances of the sites investigated as described in this report as they existed during the time period of the investigation.
3. **WARRANTIES. THERE ARE NO EXPRESSED OR IMPLIED WARRANTIES, INCLUDING THE IMPLIED WARRANTIES OR MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, NOT SPECIFIED HEREIN.** Respecting this Agreement for the equipment, documentation, reports and services to be provided hereunder, or the delivery, use, or performance thereof, the only warranty or guarantee made by AEI in connection with the services performed hereunder, is that it will use that degree of care and skill ordinarily required in the performance of the services provided. No other warranty, expressed or implied, is made or intended by AEI's services or written reports.
4. None of the information contained herein should be construed as medical advice or a call to action for evacuation. Any decision relative to medical significance should be made by a qualified physician.
5. Apollo Environmental, Inc., evaluated the reasonableness and completeness of all relevant information, but does not assume responsibility for the truth or accuracy of any information provided to Apollo Environmental Inc. by others or for the lack of information that is intentionally, unintentionally, or negligently withheld from Apollo by others. Professional judgement was exercised in gathering and evaluating the information obtained, and Apollo commits itself to the usual care, thoroughness and competence of the industrial hygiene/environmental profession.

This report is based on information made available at the time of the inspections. The opinions expressed draw upon the background, training and experience of the personnel involved in the investigation. Should additional information become available, Apollo Environmental, Inc., reserves the right to determine the weight and impact, if any, of the new information on our opinions and conclusions, and to revise the opinions and conclusions if necessary and warranted by the discovery of the additional information.

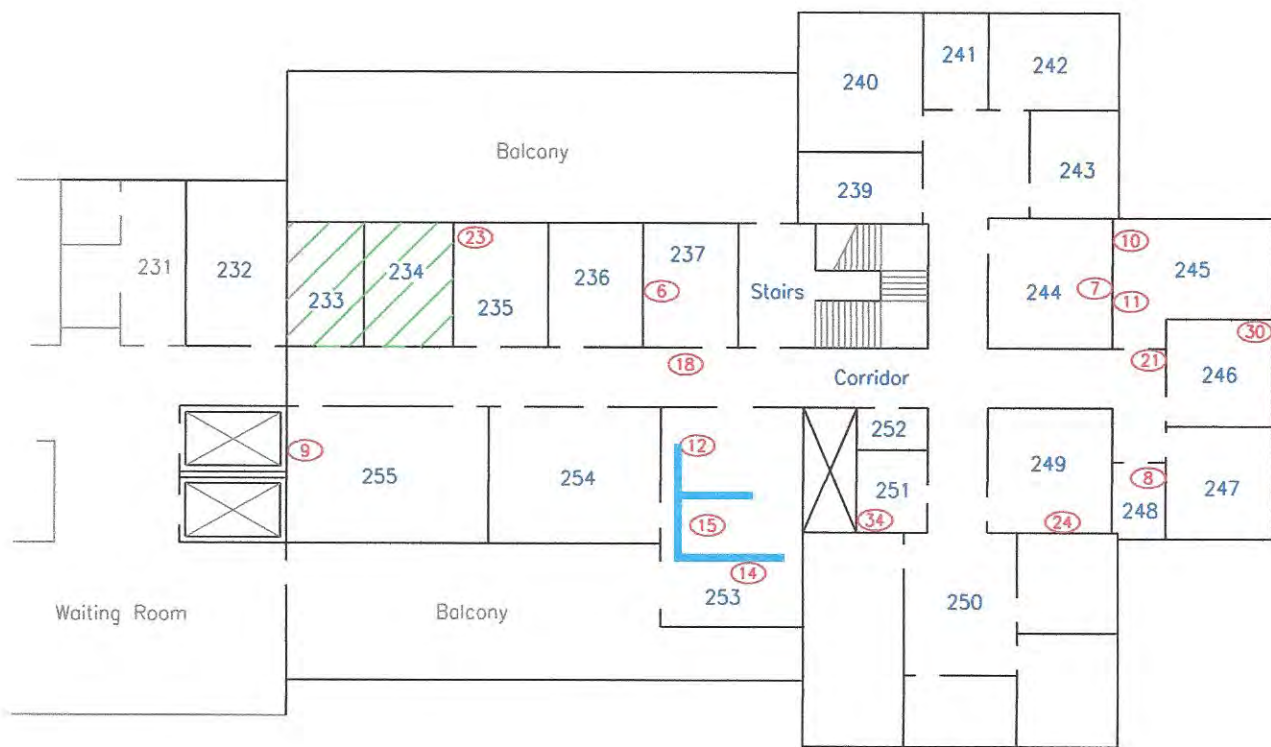
6. After acceptance of this report, if Apollo obtains information that it believes warrants further exploration and development, Apollo will endeavor to provide that information to the Client, but Apollo will not be liable for not doing so.
7. This report is neither a legal opinion nor "due diligence inquiry." Only legal counsel retained by the Client is competent to determine the legal implications of information or conclusions contained in this report.
8. Apollo is not responsible for any effect upon the Client or others' legal rights, obligations, or liabilities or for any effect upon the finance ability, marketability, or value of the property or for the occurrence or non-occurrence of any transaction involving the property based upon the information stated in this report.

LIMITATION OF LIABILITY: Client agrees that AEI's liability for any damage on account of any error, omission, or other professional negligence will be limited to an amount equal to the lesser of \$10,000 or AEI's fee. AEI, its agents, and employees shall not be liable for any lost profits or any claim or demand against Client by any other party. In no event shall AEI be liable for special, consequential, or exemplary damages. This provision shall supersede any other provision in this report that may be deemed inconsistent with it. No action, regardless of form, arising out of the service under this Agreement, may be brought by the Client more than one (1) year after the act or omission giving rise to a cause of action has occurred.

9. To achieve the study objectives stated in this report, Apollo based its conclusions on the best information available during the period of the investigation and within the limits prescribed by the Client.
10. **SAMPLE DISPOSAL:** Unless otherwise agreed, test specimens or samples will be disposed of immediately upon completion of the test or per NVLAP.
11. **INDEMNITY:** The Client agrees to indemnify, defend, and hold AEI, its officers, employees, and agents harmless from any and all claims, suits, losses, costs, and expenses, including but not limited to, court costs and reasonable attorney's fees arising or alleged to have arisen out of or to have resulted from the performance of AEI's work on or about the subject Project, and caused in whole or in part by a negligent, willful, or wanton act or omission of the Client. In the event that the Client shall bring any claim, suit, cause of action, or counterclaim against AEI, to the extent that AEI shall prevail upon such action, the Client shall pay to AEI the costs expended by AEI to defend against such action, including reasonable attorney's fees, witness fees, and other related expenses.
12. **PAYMENT:** Payment is due upon receipt of AEI's invoices. If payment is not received within thirty (30) days of receipt by Client, Client agrees to pay a finance charge of the principal amount of the past due account of two (2%) percent per month. If two (2%) percent per month exceeds the maximum allowed by law, the charges shall automatically be reduced to the maximum legally allowable. The Client agrees to pay AEI's cost of collection of all amounts due and unpaid after sixty (60) days, including court costs and reasonable attorney's fees.

Appendix 1

Sample Location and ACM Location Drawings



Building 22
-Northeast Second Floor-

(00) Sample Locations

Approx. ACM Locations



HA 4: White Mastic on Chiller Pipe Insulation



HA 9: 12" Floor Tile over Black Mastic

REVISED
 4/24/2014

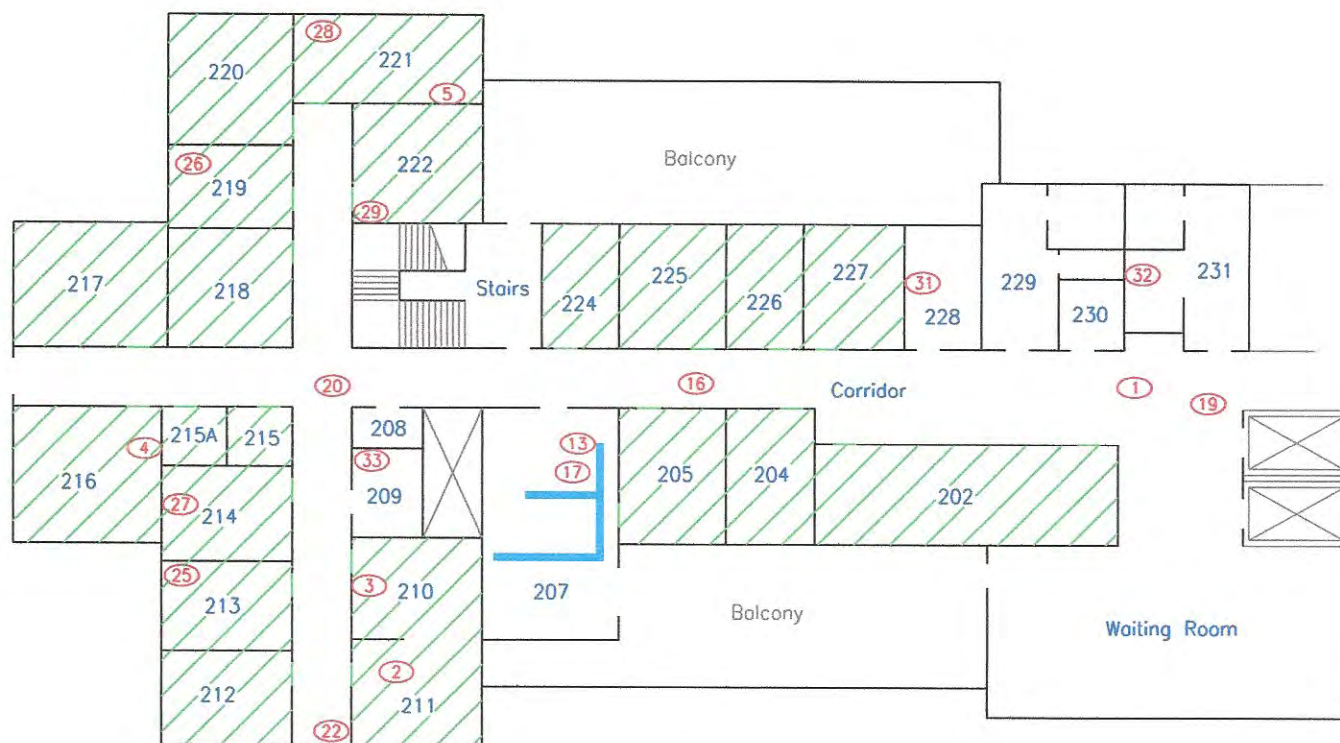
DRAWING 1 OF 2

NOT TO SCALE



APOLLO ENVIRONMENTAL, INC.
 11553 US HIGHWAY 41 SOUTH
 GIBSONTOWN, FLORIDA 33534
 PHONE: 813-671-3999
 DRAWN BY: F.R.R. DATE REVISED: 4-24-14

Bay Pines VA Medical Center
10000 Bay Pines Boulevard
Bay Pines, Florida
 Prepared for: Bay Pines VAHCS



Building 22
-Southwest Second Floor-

⓪ Sample Locations

Approx. ACM Locations



HA 4: White Mastic on Chiller Pipe Insulation



HA 9: 12" Floor Tile over Black Mastic

REVISED
 4/24/2014

DRAWING 2 OF 2

NOT TO SCALE



APOLLO ENVIRONMENTAL, INC.
 11553 US HIGHWAY 41 SOUTH
 GIBSONTON, FLORIDA 33534
 PHONE: 813-671-3999

DRAWN BY: F.R.R. DATE REVISED: 4-24-14

Bay Pines VA Medical Center
10000 Bay Pines Boulevard
Bay Pines, Florida
 Prepared for: Bay Pines VAHCS

Appendix 2

Sample Analysis Sheets

APOLLO ENVIRONMENTAL, INC.
11553 US Highway 41 South
Gibsonton, FL 33534: Tel.: (813) 671-3999

Client Name: VA Bay Pines Medical Center
10000 Bay Pines Boulevard
Bay Pines, Florida

Project Name: Building #22 - 2nd Floor

Date Analyzed: January 22-23, 2014

Asbestos, Bulk Sample Analysis

Test Method: PLM / DS - Method 600/R-93/116

Lab #	Client #	Sample Type	Description	% Asbestos	% Other Fibers	% Binders
140081	1 HA 1	ceiling panels heterogeneous	white paint beige panel	NAD NAD	40% cellulose 20% fibrous glass	100% pigments & binders 40% perlite & binders
140082	2 HA 1	ceiling panels heterogeneous	white paint beige panel	NAD NAD	40% cellulose 20% fibrous glass	100% pigments & binders 40% perlite & binders
140083	3 HA 2	drywall system heterogeneous	white paint drywall	NAD NAD	10% cellulose 5% fibrous glass	100% pigments & binders 85% gypsum & binders
140084	4 HA 2	drywall system heterogeneous	white paint white surfacing drywall	NAD NAD NAD	10% cellulose 5% fibrous glass	100% pigments & binders 100% carbonates & binders 85% gypsum & binders
140085	5 HA 2	drywall system heterogeneous	white paint drywall	NAD NAD	10% cellulose 5% fibrous glass	100% pigments & binders 85% gypsum & binders
140086	6 HA 2	drywall system heterogeneous	light gray paint drywall	NAD NAD	10% cellulose	100% pigments & binders 90% gypsum & binders
140087	7 HA 2	drywall system heterogeneous	light gray paint white surfacing drywall	NAD NAD NAD	10% cellulose	100% pigments & binders 100% carbonates & binders 85% gypsum & binders
140088	8 HA 2	drywall system heterogeneous	white paint drywall	NAD NAD	10% cellulose 5% fibrous glass	100% pigments & binders 85% gypsum & binders
140089	9 HA 2	drywall system heterogeneous	white paint drywall	NAD NAD	10% cellulose 5% fibrous glass	100% pigments & binders 85% gypsum & binders
140090	10 HA 3	carpet with adhesive heterogeneous	beige carpet tan adhesive white surfacing	NAD NAD NAD	100% synthetic	100% binders 100% carbonates & binders
140091	11 HA 3	carpet with adhesive heterogeneous	beige carpet tan adhesive white paint tan paper	NAD NAD NAD NAD	100% synthetic 100% cellulose	100% binders 100% pigments & binders
140092	12 HA 4	beige mastic heterogeneous	white mastic w/ mesh layer gray foamed glass	10% Chrysotile NAD	20% fibrous glass	70% binders 100% foamed glass

These samples were analyzed by layers. Specific layer or component asbestos content is indicated when relevant. The EPA considers a material to be asbestos containing only if it contains more than 1% asbestos by Calibrated Visual Area Estimation (CVAE). EPA regulations also indicate that Regulated Asbestos Containing Materials which are friable or may become friable be further analyzed by point counting when the results indicate less than 10% asbestos by CVAE. Apollo environmental, inc. Utilizes CVAE on a routine basis and does not include point counting unless specifically requested. Additionally, these results may not be reproduced except in full. This report data is to be interpreted only by the person(s) whom have collected the samples. Furthermore, this report may not be used as a claim to product certification, approval or endorsement by NVLAP, NIST or any other agency of the Federal Government.

Floor tile and other resinously bound materials, when analyzed by EPA method, may yield false negative results because of limitations in separating closely bound fibers and in detecting fibers of small length and diameter. When a definitive result is required, Apollo recommends utilizing alternative methods of identification, including Transmission electron Microscopy.

Project Number: AD-31460

Analyzed By:

Lara A Davis

NVLAP Lab Code 101871-0

APOLLO ENVIRONMENTAL, INC.
11553 US Highway 41 South
Gibsonton, FL 33534: Tel.: (813) 671-3999

Client Name: VA Bay Pines Medical Center
10000 Bay Pines Boulevard
Bay Pines, Florida

Project Name: Building #22 - 2nd Floor

Date Analyzed: January 22-23, 2014

Asbestos, Bulk Sample Analysis

Test Method: PLM / DS - Method 600/R-93/116

Lab #	Client #	Sample Type	Description	% Asbestos	% Other Fibers	% Binders
140093	13 HA 4	beige mastic heterogeneous	white mastic w/ mesh layer gray foamed glass	10% Chrysotile NAD	20% fibrous glass	70% binders 100% foamed glass
140094	14 HA 4	beige mastic heterogeneous	white mastic w/ mesh layer beige adhesive white paper silver foil	10% Chrysotile NAD NAD NAD	20% fibrous glass 100% cellulose	70% binders 100% binders 100% foil
140095	15 HA 5	beige mastic heterogeneous	white mastic white paper beige adhesive mesh layer silver foil yellow insulation	NAD NAD NAD NAD NAD NAD	100% cellulose 100% fibrous glass 100% fibrous glass	100% binders 100% binders 100% foil
140096	16 HA 5	beige mastic heterogeneous	white mastic white paper beige adhesive mesh layer silver foil yellow insulation	NAD NAD NAD NAD NAD NAD	100% cellulose 100% fibrous glass 100% fibrous glass	100% binders 100% binders 100% foil
140097	17 HA 5	beige mastic heterogeneous	white mastic white paper beige adhesive mesh layer silver foil yellow insulation	NAD NAD NAD NAD NAD NAD	10% cellulose 100% cellulose 100% fibrous glass 100% fibrous glass	90% binders 100% binders 100% foil
140098	18 HA 6	duct mastic homogeneous	gray mastic	NAD		100% binders
140099	19 HA 6	duct mastic heterogeneous	gray mastic tan mastic	NAD NAD		100% binders 100% binders
140100	20 HA 6	duct mastic homogeneous	gray mastic	NAD		100% binders
140101	21 HA 7	floor tile with black mastic heterogeneous	beige tile tan adhesive black mastic gray leveling comp.	NAD NAD NAD NAD	5% cellulose	100% carbonates & binders 100% binders 95% bitumen & binders 100% cementitious
140102	22 HA 7	floor tile with black mastic heterogeneous	light blue tile black mastic	NAD NAD	10% cellulose	100% carbonates & binders 90% bitumen & binders

These samples were analyzed by layers. Specific layer or component asbestos content is indicated when relevant. The EPA considers a material to be asbestos containing only if it contains more than 1% asbestos by Calibrated Visual Area Estimation (CVAE). EPA regulations also indicate that Regulated Asbestos Containing Materials which are friable or may become friable be further analyzed by point counting when the results indicate less than 10% asbestos by CVAE. Apollo Environmental, Inc. Utilizes CVAE on a routine basis and does not include point counting unless specifically requested. Additionally, these results may not be reproduced except in full. This report data is to be interpreted only by the person(s) whom have collected the samples. Furthermore, this report may not be used as a claim to product certification, approval or endorsement by NVLAP, NIST or any other agency of the Federal Government.

Floor tile and other resinously bound materials, when analyzed by EPA method, may yield false negative results because of limitations in separating closely bound fibers and in detecting fibers of small length and diameter. When a definitive result is required, Apollo recommends utilizing alternative methods of identification, including Transmission electron Microscopy.

Project Number: AD-31460

Analyzed By:

Lara A Davis

NVLAP Lab Code 101871-0

APOLLO ENVIRONMENTAL, INC.
11553 US Highway 41 South
Gibsonton, FL 33534: Tel.: (813) 671-3999

Client Name: VA Bay Pines Medical Center
10000 Bay Pines Boulevard
Bay Pines, Florida

Project Name: Building #22 - 2nd Floor

Date Analyzed: January 22-23, 2014

Asbestos, Bulk Sample Analysis

Test Method: PLM / DS - Method 600/R-93/116

Lab #	Client #	Sample Type	Description	% Asbestos	% Other Fibers	% Binders
140103	23 HA 8	carpet with adhesive heterogeneous	blue multi-colored carpet green adhesive tan adhesive	NAD NAD NAD	50% synthetic	50% fibers & binders 100% binders 100% binders
140104	24 HA 8	carpet with adhesive heterogeneous	blue multi-colored carpet green adhesive tan adhesive	NAD NAD NAD	50% synthetic	50% fibers & binders 100% binders 100% binders
140105	25 HA 9	floor tile with adhesive heterogeneous	beige tile green adhesive tan adhesive black mastic white particulate	NAD NAD NAD 10% Chrysotile NAD		100% carbonates & binders 100% binders 100% binders 90% bitumen & binders 100% carbonates & binders
140106	26 HA 9	floor tile with adhesive heterogeneous	beige tile tan adhesive	NAD NAD		100% carbonates & binders 100% binders
140107	27 HA 10	sink undercoating homogeneous	white sink undercoating	NAD	20% cellulose	80% binders
140108	28 HA 10	sink undercoating homogeneous	white sink undercoating	NAD	20% cellulose	80% binders
140109	29 HA 11	covebase with adhesive heterogeneous	beige covebase tan adhesive white paint tan paper	NAD NAD NAD NAD	100% cellulose	100% vinyl & binders 100% binders 100% pigments & binders
140110	30 HA 11	covebase with adhesive heterogeneous	tan adhesive white particulate	NAD NAD		100% binders 100% carbonates & binders
140111	31 HA 12	ceramic tile with adhesive heterogeneous	white tile white grout white adhesive blue wallpaper	NAD NAD NAD NAD	30% synthetic	100% ceramic 100% carbonates & binders 100% binders 70% binders
140112	32 HA 12	ceramic tile with adhesive heterogeneous	white grout white adhesive blue wallpaper	NAD NAD NAD	30% synthetic	100% carbonates & binders 100% binders 70% binders
140113	33 HA 13	concrete slab homogeneous	gray concrete	NAD		100% cementitious

These samples were analyzed by layers. Specific layer or component asbestos content is indicated when relevant. The EPA considers a material to be asbestos containing only if it contains more than 1% asbestos by Calibrated Visual Area Estimation (CVAE). EPA regulations also indicate that Regulated Asbestos Containing Materials which are friable or may become friable be further analyzed by point counting when the results indicate less than 10% asbestos by CVAE. Apollo environmental, Inc. Utilizes CVAE on a routine basis and does not include point counting unless specifically requested. Additionally, these results may not be reproduced except in full. This report data is to be interpreted only by the person(s) whom have collected the samples. Furthermore, this report may not be used as a claim to product certification, approval or endorsement by NVLAP, NIST or any other agency of the Federal Government.

Floor tile and other resinously bound materials, when analyzed by EPA method, may yield false negative results because of limitations in separating closely bound fibers and in detecting fibers of small length and diameter. When a definitive result is required, Apollo recommends utilizing alternative methods of identification, including Transmission electron Microscopy.

Project Number: AD-31460

Analyzed By:

Lara A Davis

NVLAP Lab Code 101871-0

APOLLO ENVIRONMENTAL, INC.
11553 US Highway 41 South
Gibsonton, FL 33534: Tel.: (813) 671-3999

Client Name: VA Bay Pines Medical Center
10000 Bay Pines Boulevard
Bay Pines, Florida

Project Name: Building #22 - 2nd Floor

Date Analyzed: January 22-23, 2014

Asbestos, Bulk Sample Analysis

Test Method: PLM / DS - Method 600/R-93/116

Lab #	Client #	Sample Type	Description	% Asbestos	% Other Fibers	% Binders
140114	34 HA 13	concrete slab homogeneous	gray concrete	NAD		100% cementitious

These samples were analyzed by layers. Specific layer or component asbestos content is indicated when relevant. The EPA considers a material to be asbestos containing only if it contains more than 1% asbestos by Calibrated Visual Area Estimation (CVAE). EPA regulations also indicate that Regulated Asbestos Containing Materials which are friable or may become friable be further analyzed by point counting when the results indicate less than 10% asbestos by CVAE. Apollo environmental, Inc. Utilizes CVAE on a routine basis and does not include point counting unless specifically requested. Additionally, these results may not be reproduced except in full. This report data is to be interpreted only by the person(s) whom have collected the samples. Furthermore, this report may not be used as a claim to product certification, approval or endorsement by NVLAP, NIST or any other agency of the Federal Government.

Floor tile and other resinously bound materials, when analyzed by EPA method, may yield false negative results because of limitations in separating closely bound fibers and in detecting fibers of small length and diameter. When a definitive result is required, Apollo recommends utilizing alternative methods of identification, including Transmission electron Microscopy.

Project Number: AD-31460

Analyzed By:

Lara A Davis

NVLAP Lab Code 101871-0

Surveyor: <i>Victoria Rivera</i>		AD#: <i>31460</i>		Date: <i>1/20/14</i>	
Client: <i>Bay Pines V.A.</i>		Site Name: <i>Bldg 22, 2nd Floor</i>			
Address: <i>10000 Bay Pines Blvd, Bay Pines, FL.</i>					
Bldg.	Room	Smp	HA	Description	F/N
<i>22</i>	<i>Corridor</i>	<i>1</i>	<i>1</i>	<i>Drop Ceiling Panels</i>	<i>F/F</i>
	<i>Rm 211</i>	<i>2</i>			
	<i>Rm 210</i>	<i>3</i>	<i>2</i>	<i>5/8 wall w/ skim coat</i>	<i>F/F</i>
	<i>Rm 216</i>	<i>4</i>			
	<i>Rm 221</i>	<i>5</i>			
	<i>Rm 237</i>	<i>6</i>			
	<i>Rm 244</i>	<i>7</i>			
	<i>Rm 248</i>	<i>8</i>			
	<i>Rm 255</i>	<i>9</i>			
	<i>Rm 245</i>	<i>10</i>	<i>3</i>	<i>Carpet wall o/glue o/ 5/8</i>	<i>N/F</i>
	<i>Rm 245</i>	<i>11</i>			
	<i>Rm 253</i>	<i>12</i>	<i>4</i>	<i>Beige mastic o/ foil wrap o/</i>	<i>N/F</i>
	<i>Rm 207</i>	<i>13</i>		<i>blown glass on chiller pipes</i>	
	<i>Rm 253</i>	<i>14</i>			
	<i>Rm 253</i>	<i>15</i>	<i>5</i>	<i>Beige mastic o/ fiber glass</i>	<i>N/F</i>
	<i>Corridor</i>	<i>16</i>		<i>insulation on N.W. pipes</i>	
	<i>Rm 207</i>	<i>17</i>			
	<i>Corridor</i>	<i>18</i>	<i>6</i>	<i>Grey & mustard mastic o/</i>	<i>N/F</i>
	<i>Corridor</i>	<i>19</i>		<i>metal ducts seams</i>	
	<i>Corridor</i>	<i>20</i>			
	<i>Corridor</i>	<i>21</i>	<i>7</i>	<i>12" F.F. o/ black mastic o/ C/S</i>	<i>N/F</i>
	<i>Corridor</i>	<i>22</i>		<i>(Blue & Beige)</i>	
	<i>Rm 235</i>	<i>23</i>	<i>8</i>	<i>Carpet (various) floor o/ glue o/ ds</i>	<i>N/F</i>
	<i>Rm 249</i>	<i>24</i>			
	<i>Rm 213</i>	<i>25</i>	<i>9</i>	<i>12" F.F. o/ glue o/ C/S (Beige 4 types)</i>	<i>N/F</i>

Apollo Environmental, Inc.: Sample Inventory Sheet

Page 2 of 2

[illegible]

APOLLO ENVIRONMENTAL, INC.

SAMPLE ANALYSIS REQUEST FORM AND CUSTODY RECORD

AD#: 31460

CLIENT NAME: Bay Pines V.A.

ADDRESS: _____

TELEPHONE: _____ FAX: _____

CONTACT PERSON: Tim Chan/Yon

PROJECT NAME: Building 22 - 2nd Floor

10000 Bay Pines Blvd, Bay Pines

SAMPLE(S) COLLECTED BY: Victor Rivera

DATE SAMPLES COLLECTED: 1/20/14

Type of Analysis:

Of Samples

- ☒ PLM - Building Material for Asbestos Content
☐ PCM - Air Samples NIOSH 7400 Method ORM
☐ TEM - Asbestos in Air
☐ H2O - TDS, Sulfate, Chloride
☐ Lead - Atomic Absorption, Lead in Paint/Water/Air
☐ IAQ - Bioaerosols
☐ IAQ - Swabs
☐ Air-O-Cell Samples
☐ Other, Please List: _____

34

Turn Around Time Requested:

☐ Rush-ASAP

☐ 24 Hour

☐ 48 Hour

☐ Normal

Released By: <u>Victor Rivera</u>	Date/Time: <u>1/21/14</u>	Received By: <u>[Signature]</u>	Date/Time: <u>1-22-14</u>
Print Name: <u>Victor Rivera</u>	<u>11:15</u>	Print Name: <u>[Signature]</u>	<u>2:44 PM</u>
Released By:	Date/Time:	Received By:	Date/Time:
Print Name:		Print Name:	

COMMENTS/NOTES: _____

Appendix 3

Survey Certifications

STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
ASBESTOS LICENSING UNIT

LICENSE NUMBER

ZA0000001

The ASBESTOS BUSINESS ORGANIZATION
Named below IS LICENSED
Under the provisions of Chapter 469 FS.
Expiration date: NOV 30, 2015



APOLLO ENVIRONMENTAL INC
ROBERT DAVID MITCHELL
11553 US HIGHWAY 41 SOUTH
GIBSONTON FL 33534



RICK SCOTT
GOVERNOR

ISSUED: 09/17/2013 SEQ # L1309170004165
DISPLAY AS REQUIRED BY LAW

KEN LAWSON
SECRETARY

State of Florida

Board of Professional Engineers

Attests that

Robert David Mitchell, P.E.



Is licensed as a Professional Engineer under Chapter 471, Florida Statutes

Expiration: 2/28/2015

Audit No: 228201501300

P.E. Lic. No:

45325

THIS DOCUMENT HAS A COLORED BACKGROUND • MICROPRINTING • LINEMARK™ PATENTED PAPER

AC# 6330373

STATE OF FLORIDA

DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
ASBESTOS LICENSING UNIT

SEQ# L12083105864

DATE	BATCH NUMBER	LICENSE NBR
08/31/2012	120100197	DD0000007

The ASBESTOS CONSULTANT

Named below IS LICENSED

Under the provisions of Chapter 469 FS.

Expiration date: NOV 30, 2014

MITCHELL, ROBERT DAVID
APOLLO ENVIRONMENTAL INC
2521 GABRIEL RD
FORT MEADE

FL 33841

RICK SCOTT
GOVERNOR

DISPLAY AS REQUIRED BY LAW

KEN LAWSON
SECRETARY

United States Department of Commerce
National Institute of Standards and Technology



Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 101871-0

Apollo Environmental, Inc.
Gibsonton, FL

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

BULK ASBESTOS FIBER ANALYSIS

*This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005.
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality
management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).*

2013-10-01 through 2014-09-30

Effective dates



A handwritten signature in black ink, appearing to read "Mark R. Mello".

For the National Institute of Standards and Technology

McCRONE RESEARCH INSTITUTE

certifies that

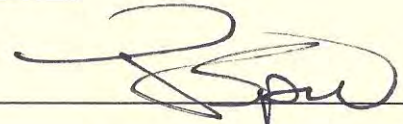
Lara A. Davis

has successfully completed an intensive course of instruction in

Microscopical Identification of Asbestos

given by the McCrone Research Institute

Presented this 14th *day of* April, 2006



Gary J. Laughlin

Course Date: April 10-14, 2006

3.5 CEU's

McCRONE RESEARCH INSTITUTE

certifies that

Lara A. Davis

has successfully completed an intensive course of instruction in

Advanced Asbestos Identification

given by the McCrone Research Institute

Presented this 19th day of November, 2010

Lara A. Davis

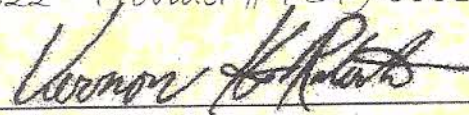
Lucy B. McCrone

Vern Roberts Environmental Training, Inc.
13987 94th Avenue N Seminole, FL 33776
727-593-3067
Asbestos Survey & Mechanical (inspector) Refresher
Training

This is to Certify that
VÍCTOR RÍVERA

Has completed the requisite training for asbestos accreditation
under TSCA TITLE II
Date of Examination 7/13/13

Date of Course: 7/13/13 Expiration Date 7/13/14
Certificate #713133
Course # FL49-0006326322 Provider # FL49-0003810



Instructor