

APPENDIX B

Asbestos and Lead Based Paint Surveys

CONFIDENTIAL

**REPORT OF
ASBESTOS AND LEAD-BASED PAINT
SURVEY AND ANALYSIS
ALDREDGE HEALTH CENTER
Butler Street
Atlanta, Fulton County, Georgia**

WILLMER ENGINEERING INC.
WEI Project No. ATL-175-1531

CONFIDENTIAL

Prepared For
**FULTON COUNTY
PUBLIC BUILDINGS AND GROUNDS DEPARTMENT**
141 Pryor Street, SW, Suite G-119
Atlanta, Georgia 30303

Prepared By
WILLMER ENGINEERING INC.
3772 Pleasantdale Road
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(770) 939-0089



WILLMER ENGINEERING INC.
ENVIRONMENTAL & GEOTECHNICAL SERVICES

February 16, 1998

Mr. Doré May
Planning Project Coordinator
Fulton County Public Building and Grounds Department
141 Pryor Street, SW, Suite G-119
Atlanta, Georgia 30303

SUBJECT: Report of Asbestos and Lead-Based Paint Survey and Analysis
Aldredge Health Center
199 Butler Street
Atlanta, Fulton County, Georgia 30303
WEI Project No. ATL-175-1531

Dear Mr. May:

Willmer Engineering Inc. (WEI) is pleased to submit this report of asbestos survey and analysis for the Aldredge Health Center, Butler Street, Atlanta, Georgia. The purpose of this survey was to identify readily observable suspect asbestos-containing building materials (ACBMs) and to quantify those materials that require asbestos abatement and sample for lead-based paints. This report provides documentation of the procedures used, materials sampled, and analysis results.

Asbestos Survey Procedures

WEI conducted an asbestos survey of the Aldredge Health Center in an attempt to identify and sample observable suspect ACBMs. The Aldredge Health Center is a 4-story, 76,000+-square foot facility operated by the Fulton County Health Department. The survey was conducted inside and outside the property improvements, including the roof. Areas which required destructive access, such as behind walls, were not surveyed. The purpose of this survey was to evaluate the building spaces for ACBMs and to determine the quantities that required abatement prior to building renovation. Although the entire building was surveyed, particular attention was given to the second floor, the primary area of the proposed renovation. For the purpose of this report, ACBMs are defined as any material product used in the construction of the building that contains greater than 1 percent asbestos.

Building floor plans provided by Fulton County were reviewed prior to the survey. The buildings were surveyed by our certified asbestos inspector, and suspect ACBMs were identified based on the experience of our investigators and those materials listed in the EPA document, *Guidance for Controlling Asbestos-Containing Materials in Buildings*, June 1985. During the survey,

representative bulk samples of suspect ACBMs were obtained for laboratory analyses. The samples subjected to analysis were viewed, utilizing polarized light microscopy combined with dispersion staining (PLM/ds), according to the guidelines set forth in the EPA *Interim Methods for the Determination of Asbestos in Bulk Insulation Samples*. Bulk samples were initially examined under a stereobinocular microscope and selected components were then mounted into specific refractive index oils for analysis by PLM/ds.

Georgia regulations require that a material be classified as ACBM if any layer present contains greater than 1 percent asbestos. Layered samples commonly present in commercial structures include wall and ceiling systems, textured ceilings, thermal system insulation, and resilient flooring.

Asbestos fibers can be present as an impurity in a product or as a main constituent. The quantity of asbestos fibers in a material is also variable within a batch or manufactured quantity of the same material. The asbestos content determined for the samples only represents the amount of asbestos at point of collection. The amount of asbestos identified in a sample of ACBMs may vary depending on sample location. It is possible that, during building renovation, other materials that were previously concealed may be exposed. WEI requests that these materials be sampled prior to additional renovation so the asbestos content of these materials can be determined.

Sampling was performed following AHERA protocol. The following suspect ACBMs were identified, and the number of samples collected of each type of material is listed:

Location	Material	Number of Samples
Mechanical Room	Pipe Insulation	
	3" orange	3
	3" green	3
	5" orange	3
	5" green	3
	10-12" blue	3
	Green 12" cover over foam glass	2
Mechanical Room	Hot water tank	3
Mechanical Room	HVAC insulation	3
Throughout building	Pipe insulation, fittings on unpainted lines	2
Throughout building	1' x 1' ceiling tile, hole pattern	4
Throughout building	1' x 1' ceiling tile, streak pattern	3

Location	Material	Number of Samples
Throughout building	Ceiling tile, glue patches	5
Room 409	1' x 1' wall tile	3
Throughout building	2' x 2' ceiling tile	4
Throughout building	2' x 2' textured ceiling tile	2
Throughout building	Floor tile and mastics (various colors, 9" x 9")	12
Throughout building	Floor tile and mastics (12" x 12")	5
Throughout building	Floor moldings	5
Throughout building	Stair riser mastic	2
Throughout building	Plaster walls	7
Throughout building	Plaster ceilings	7
Throughout building	Drywall joint compound	7
Throughout building	Fabric wall covering	4
Throughout building	Insulated doors (1 door observed, no access)	None
Main roof	Roofing materials	6
2nd & 3rd Floor	Laboratory benches	2
2nd Floor	Transite lab hoods (2 observed, no sample)	None
2nd Floor	Transite exhaust flue ("Transite" label observed, photo)	None
Elevator Motor Room	Strike plates observed as transite	None
Elevator Equipment	Older wire observed	None

Asbestos Survey Results

ACBMs were identified from the analysis of bulk samples obtained from the Aldredge Health Center building. A summary of asbestos bulk sampling results is contained in Table 1, which is attached to this report. The chain-of-custody, bulk sample summary and individual sample analysis laboratory data sheets are presented in Appendix I. Sample location maps are presented for each building level in Figures 1 through 5. A total of 112 samples were collected and analyzed for asbestos. Thirty-five samples were positive for asbestos, while two samples of floor tiles had

insufficient bitumen attached for analysis of the bitumen. Nine of the 34 samples collected from the second floor came back positive. Eight of the nine samples were for floor tile, with one sample of the black laboratory bench in Room 234 also testing positive for asbestos. Observed suspected ACBMs on the second floor that were not tested were the transite lab hoods in Rooms 234.5 and the adjacent lab, and the transite exhaust flue located above the ceiling from the lab hoods. The ballasted roof system over a portion of the second floor was not sampled. Photographic documentation of suspect materials and conditions is presented in Appendix II.

A summary of the identified ACBMs with estimated quantities and abatement costs is presented below:

Material	Condition	Location	Asbestos Content (%)	Estimated Quantity	Abatement Unit Cost (\$)	Estimated Abatement Cost (\$)
HVAC plaster skin coat over fiberglass	Good*	Mechanical room	15	3115 SF	15.00	46,725.00
Hot water tank	Good*	Mechanical room	45	150 SF	23.00	3,450.00
Blue 10" valves & fittings	Damaged	Mechanical room	50	25	30.00	750.00
Green 12" covering foam glass	Good	Mechanical room	< 1	50 LF	23.00	1,150.00
3" green pipe fitting	Good	Mechanical room	Assume asbestos	20	25.00*	500.00
3" orange pipe fitting	Good	Mechanical room	15	25	25.00	625.00
6" green pipe fitting	Good	Mechanical room	Assume asbestos	15	25.00	375.00
5" orange pipe fitting	Good	Mechanical room	Assume asbestos	10	25.00	250.00
12"x12" and 9"x9" floor tile & mastic	Good	1st floor	10	10,292	2.00	20,584.00
3" to 5" pipe fittings	Good**	1st floor	Assume asbestos	≈175	15.00	2,625.00
Fire door at building rear	Good	1st floor	Assume asbestos	1	150.00	150.00

Material	Condition	Location	Asbestos Content (%)	Estimated Quantity	Abatement Unit Cost (\$)	Estimated Abatement Cost (\$)
9"x9" and 12"x12" floor tile & mastic	Good	2nd floor	15	12,609	2.00	25,218.00
3" to 5" pipe fittings	Good**	2nd floor	Assume asbestos	Approx. 60	15.00	900.00
Lab benches	Good*	Rooms 234.0 & 234.59	40	750 SF	5.00	3,750.00
Lab hoods	Good	Rooms 234.5 and adjacent	Assume asbestos	40 SF	5.00	200.00
Transite exhaust flue	Good	From lab hoods	Assume asbestos	30 LF	8.00	240.00
9"x9" floor tile & mastic	Good	3rd floor	3	7,300 SF	2.00	14,600.00
3" to 5" pipe fittings	Good**	3rd floor	Assume asbestos	Approx. 25	15.00	375.00
Lab benches		3rd floor Dental area	Assume asbestos	200 SF	5.00	1,000.00
Roof flashing	Good*	Above 2nd floor	Assume asbestos	1,680 SF	4.00	6,720.00
9"x9" floor tile & mastic	Good	4th floor	15	11,427 SF	2.00	22,854.00
3" to 5" pipe fittings	Good*	4th floor	Assume asbestos	20	15.00	300.00
12"x12" floor tiles	Good	Penthouse	1-2	300 SF	2.00	600.00
Elevator equipment, strike plates & electric wire	Good#	Penthouse elevator electrical room	Assume asbestos	3 SF 2 LF		500.00
Flashing	Good*	Roof	10	1,446 SF	4.00	5,784.00
Total Estimated Abatement Cost:						\$160,225.00
* Primarily good with localized damage ** Estimated only; based on limited visual access # During significant building renovation or demolition						

Approximately 25 percent of the total estimated abatement cost, or \$40,056, should be added to cover the cost of engineering, observation, air monitoring, and other required services during the asbestos abatement activities. Therefore, a total cost of \$200,281 is estimated for all abatement-related services.

Thermal system insulation (TSI) estimated quantities in mechanical rooms are based on observations in accessible areas and the assumption of similar quantities in inaccessible areas. All quantities of ACBMs should be confirmed by the contractor prior to abatement. Abatement unit costs are based on WEI conversations with abatement contractors. Rates may change due to variations in market conditions. Additional TSI, such as hot water pipe insulation and other ACBMS, may be present behind walls and other areas that were inaccessible during this survey.

Friable TSI ACBMs in the boiler room and mechanical rooms were visibly damaged. The potential exists for fiber release from these materials. These materials should be repaired or replaced, the surrounding areas should be cleaned, and an Operations and Maintenance Plan should be prepared and implemented for all ACBMs in the building.

Lead-Based Paint Survey

A total of 64 lead-based paint chip samples were collected and analyzed, as follows:

- Ground floor: 20 samples
- Second floor: 21 samples
- Third floor: 10 samples
- Fourth floor: 10 samples
- Penthouse: 3 samples

The purpose of the sampling was to collect representative samples from predominant surfaces throughout the building. Results can be utilized for planning renovations and incorporating any lead-based paint requirements which may be necessary to control occupant and construction worker exposures. The primary painted surfaces in the facility are walls, ceilings, and door trims. Windows are all unpainted metal, with window ledges made of a marble-like material. Doors are unpainted wood through the facility, with the exception of exterior doors. Stairway hand rails are painted and were sampled. Sample location maps are presented for each building level in Figures 6 through 10.

In general, the wall paint was in good condition. Door trims were also in fairly good condition. No flaking paint was observed. Some cracking on the trim was observed. Stairway hand rails appeared in fair condition. There appeared some general wearing away of paint, but no peeling or chipped paint was observed.

Samples were analyzed by the AES Laboratory in Atlanta, Georgia. The paint was analyzed using the *EPA Standard Operating Procedures for Lead in Paint by Hotplate or Microwave-Based Acid Digestions and AA or ICP*, September 1991.

Regulatory Background

In June 1977, lead-based paint was defined as paint containing more than 0.06 percent lead, and the Consumer Product Safety Commission banned the sale of lead-based paint to consumers and the use of lead-based paint in residences and other areas where consumers have direct access to painted surfaces. Throughout the 1980s and 1990s, the Department of Housing and Urban Development (HUD) has been involved in lead-based paint regulation and development of technical guidelines for testing, abatement, cleanup, and disposal of lead-based paint. HUD defines lead-based paint as any applied coating which contains 0.5 percent lead by weight. The definition is provided in their 1995 publication, *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing*. The presence of lead-containing paint does not in itself necessarily constitute a hazard. A lead-based paint hazard is defined as "any condition that causes exposure to lead that would result in adverse human health effects." Such exposures would come from lead-contaminated dust, lead-contaminated soil, and lead-based paint that is deteriorated or present on accessible, friction, or impact surfaces.

The purpose of the HUD guidelines is to reduce childhood exposure to lead in housing and child-occupied facilities. There does not exist a set of guidelines for the commercial or office environment. OSHA, which governs workplace hazards, is concerned with exposures generated in more traditional industrial-related settings, and also during construction-related activities. The OSHA Lead in Construction Standard (29 CFR 1926.62) would apply to the Aldredge facility during any renovation or repair activities. OSHA's definition of lead-based paint includes any amount of lead in paint. Other regulations which would apply to the Aldredge Health Center would be disposal of construction debris which includes any painted components. This disposal is governed under EPA's RCRA regulations, and tests of the construction waste stream are required to determine disposal requirements.

Results

Based on the spot paint sampling conducted as part of this project, it appears that most of the walls and door trims were found to contain very low levels of lead. Thirty-four of the sixty-four samples collected were found to be at or below the detection limit of the method. An additional 23 were below the HUD criteria of 0.5 percent by weight. Of the remaining seven samples which exceeded the HUD criteria of 0.5 percent lead, three samples were from concrete walls on the ground floor, and the three were very close to the HUD criteria, ranging from 0.52 to 0.62 percent lead. The highest lead levels were found on the painted metal stair railings, ranging from 2.48 to 10.01 percent lead, which are present in three stairwells. The paint on the orange-painted pipe insulation was also found to be high at 8.28 percent. None of these paints were observed to be flaking. The chain-of-custody and the total lead-in-paint laboratory data sheets are presented in Appendix I.

Level	Sample	Location/Description	Results (%)
1st Floor	AH-L1-05	Room 116B, Wall, concrete, purple-pink	0.54
1st Floor	AH-L1-06	Column outside Room 119, concrete, yellow	0.52
1st Floor	AH-L1-08	Mechanical room, pipe TSI, orange	8.28
1st Floor	AH-L1-10	Mechanical room, wall, concrete, dark yellow	0.62
2nd Floor	AH-L2-04	West stairwell, metal hand rail, orange	10.1
2nd Floor	AH-L2-17	Center stairwell, metal hand rail, grey	6.66
Penthouse	AH-LPH-03	Stairwell, metal hand rail, grey	2.48

Conclusions and Recommendations

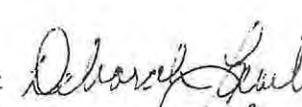
Based on the above findings, we recommend that:

- A qualified abatement contractor remove the identified ACBMs from the buildings prior to demolition, renovation, or disturbance.
- The required state notifications of abatement activity be submitted to the Georgia Environmental Protection Division.
- The damaged TSI in the mechanical rooms and boiler room should be repaired or replaced, and the surrounding areas should be cleaned.
- Maintenance personnel should be advised of lead-in-paint presences and proper handling; however, it is not an exposure risk for normal building occupants and is a low risk to maintenance personnel in its present condition.
- Consider replacing hand rails painted with lead-based paint. The paint is in good condition; therefore, no immediate action is needed. However, any surface that might be impacted by repair, renovation, or other construction activity will be subject to OSHA lead in construction standard 1926.62.
- An Operations and Maintenance (O&M) Plan should be prepared for the building.

We appreciate our involvement with this project. If you have any questions, please feel free to contact us.

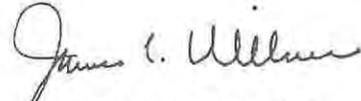
Sincerely,

WILLMER ENGINEERING INC.



Donovan G. Cushnie
Asbestos Inspector

Marianna Spain
Asbestos Inspector



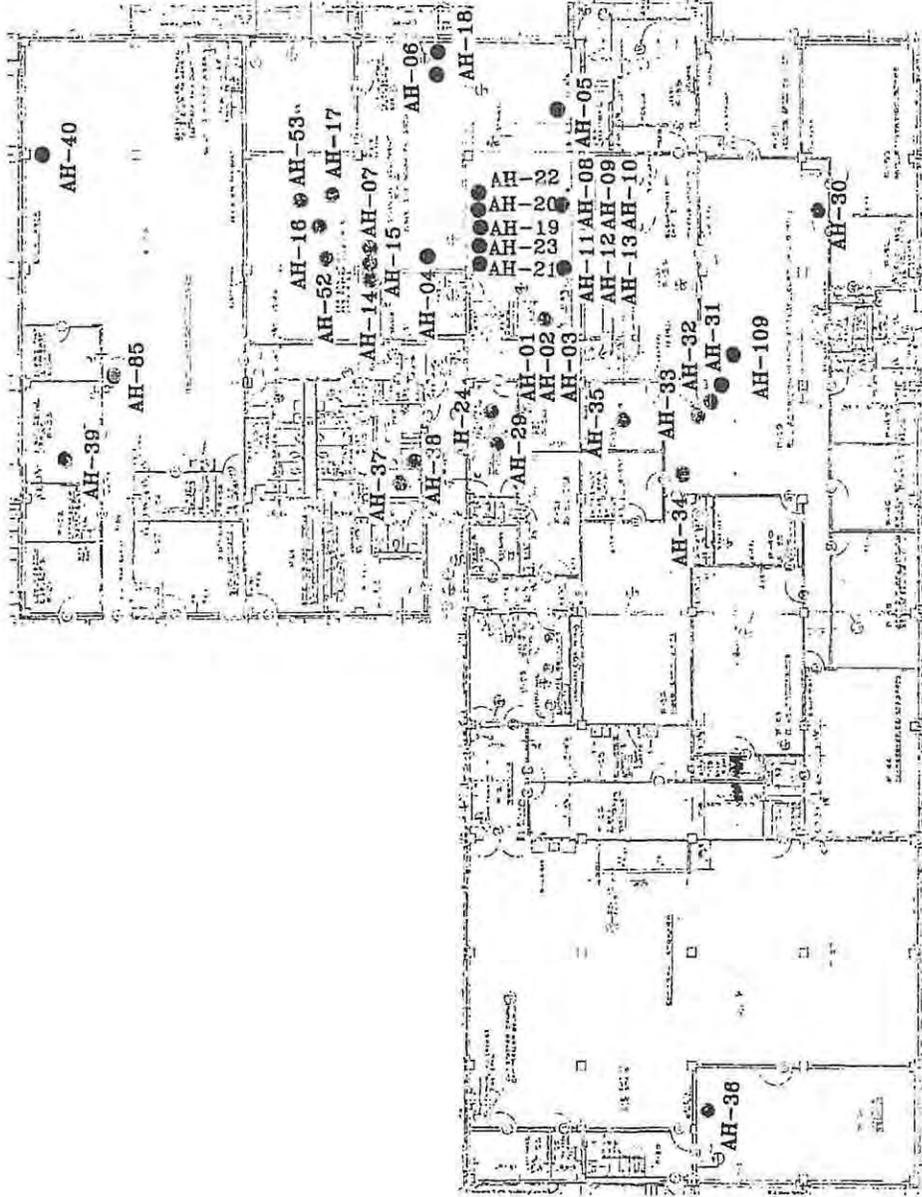
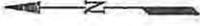
James L. Willmer, P.E.
President

JLW/MS/DGC:dcl

attachments

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FIGURES



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● ASBESTOS SAMPLE LOCATION

Figure 1
 Sample Location Map - 1st Floor
 Aldredge Health Center
 Fullon County, Georgia
 WEI Project No. ATL-175-1531



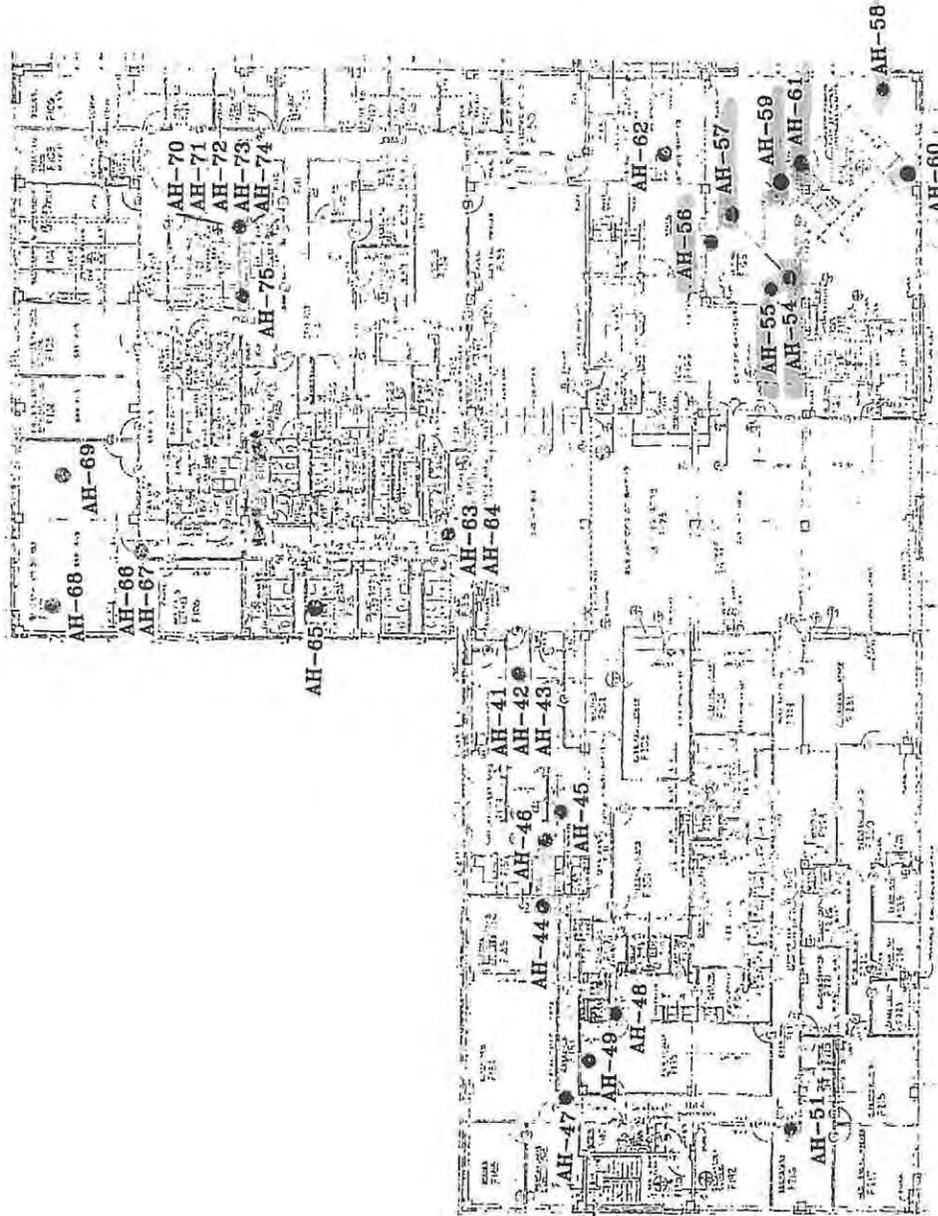
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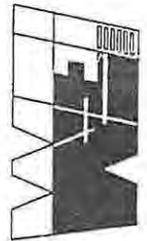
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● ASBESTOS SAMPLE LOCATION

Figure 2
 Sample Location Map - 2nd Floor
 Aldredge Health Center
 Fulton County, Georgia
 WEI Project No. ATL-175-1531

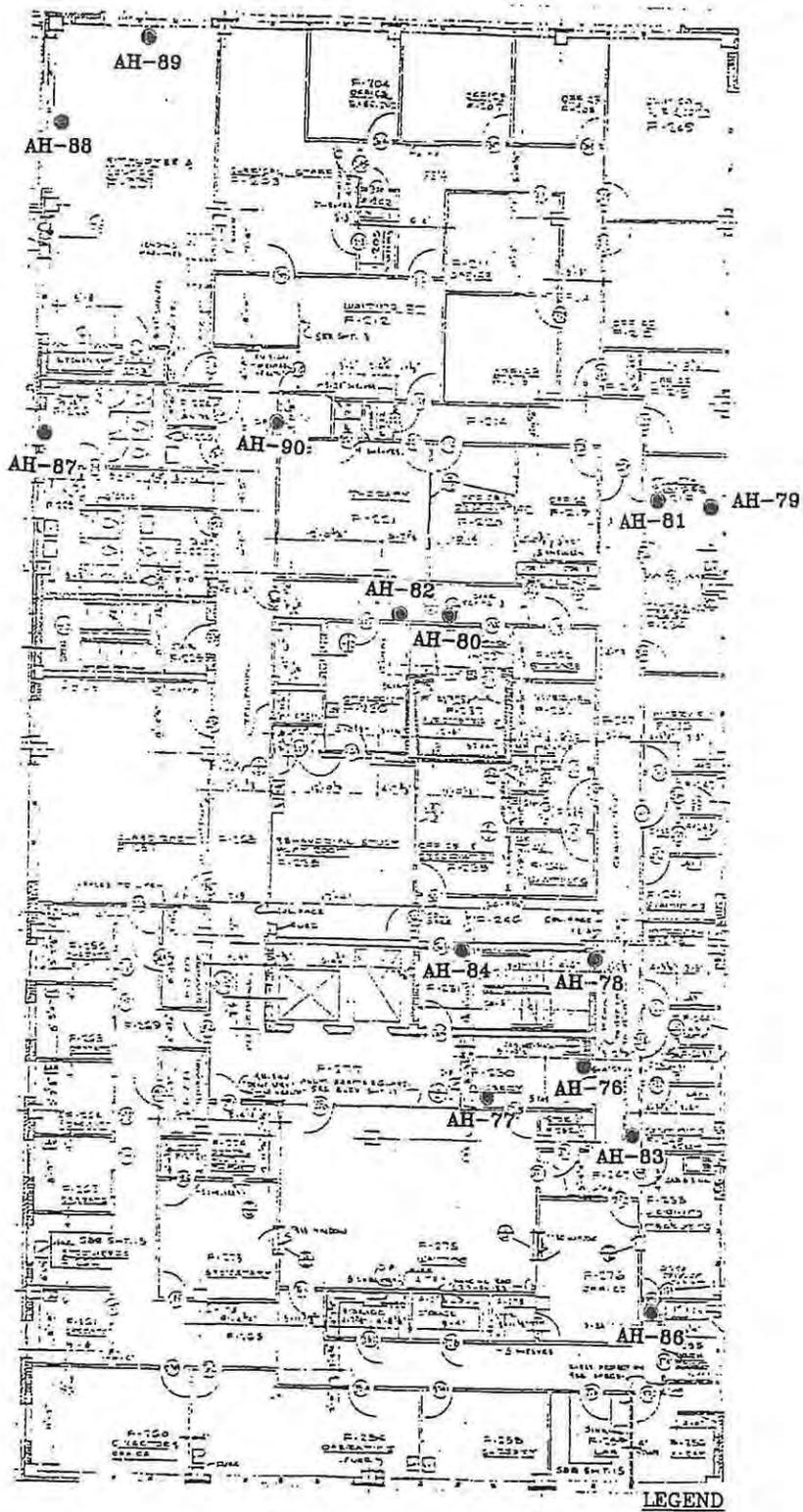


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 Ⓢ ASBESTOS SAMPLE LOCATION

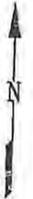
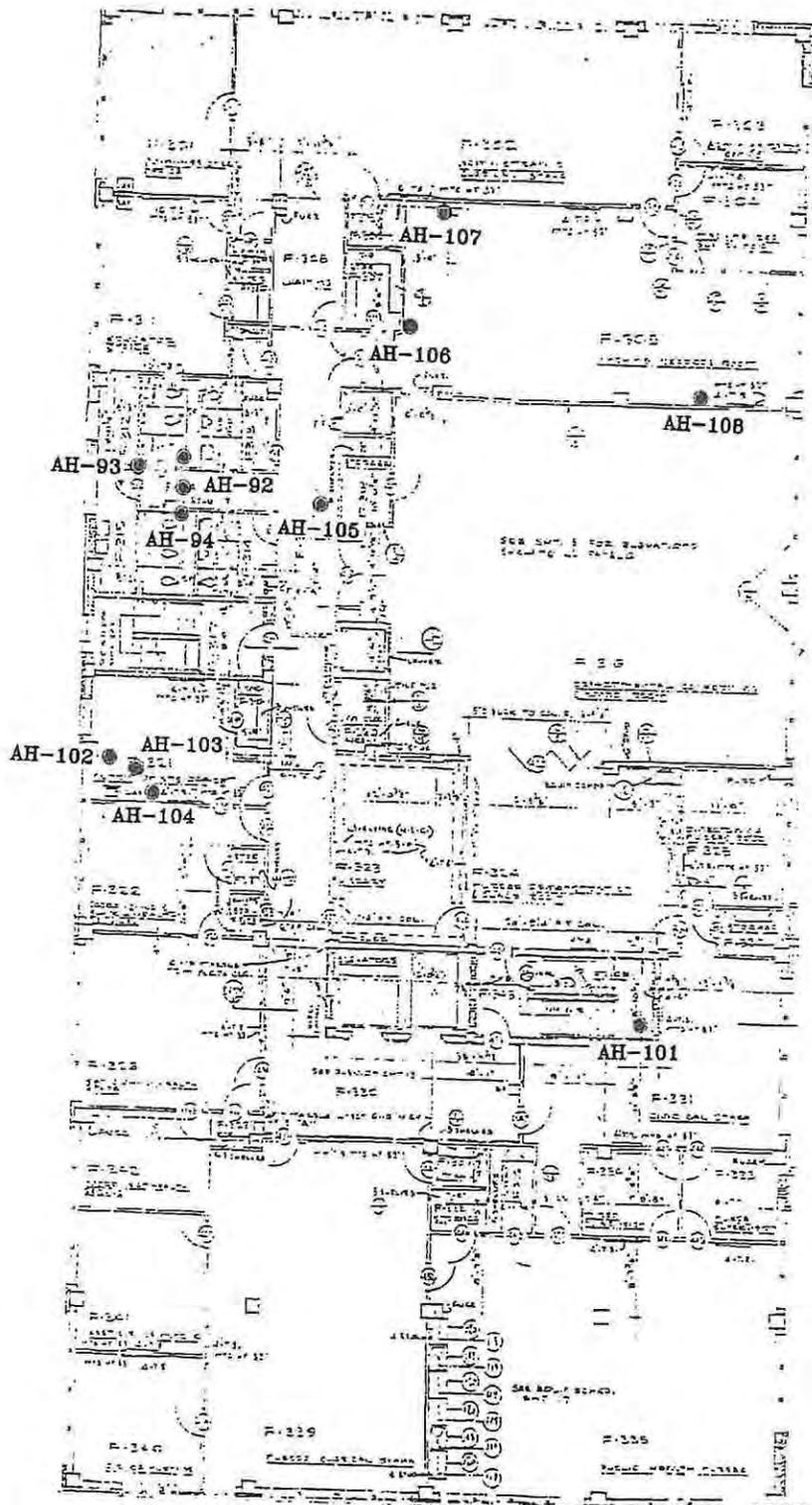
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Figure 3
 Sample Location Map - 3rd Floor
 Aldredge Health Center
 Fulton County, Georgia
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● ASBESTOS SAMPLE LOCATION

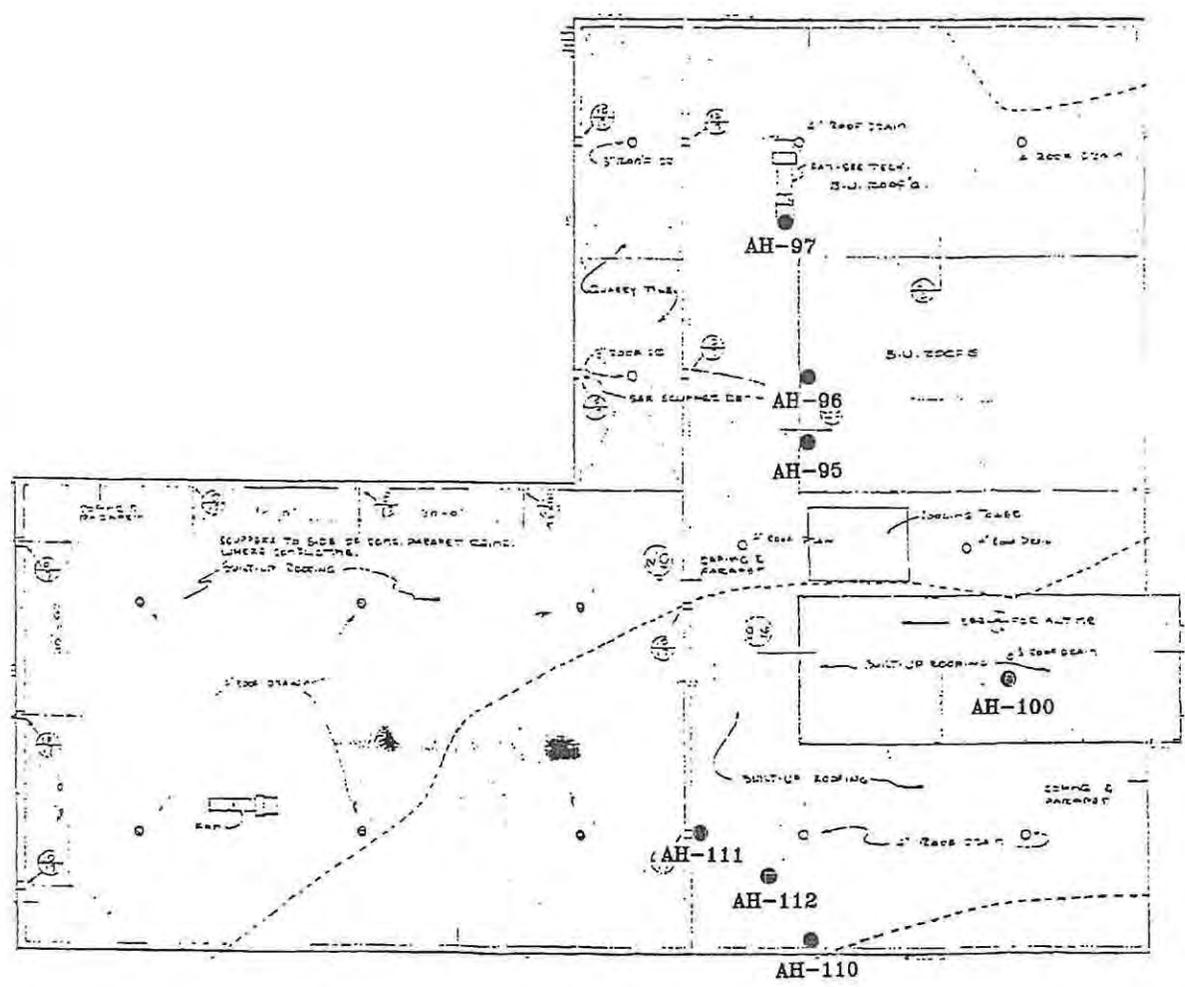
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Figure 4
 Sample Location Map - 4th Floor
 Aldredge Health Center
 Fulton County, Georgia
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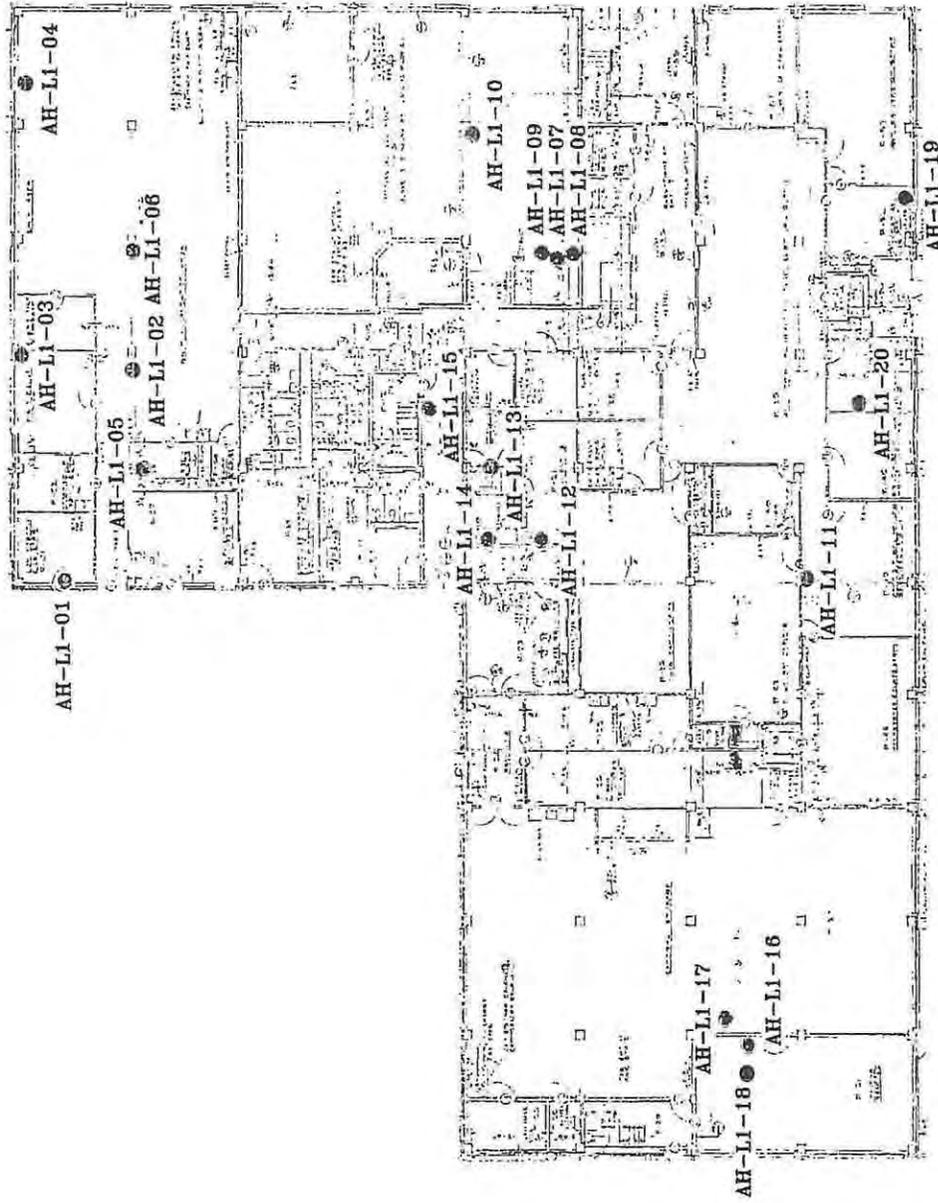
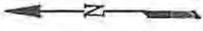
⊙ ASBESTOS SAMPLE LOCATION

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Figure 5
 Sample Location Map - Roof
 Aldredge Health Center
 Fulton County, Georgia
 WEI Project No. ATL-175-1531



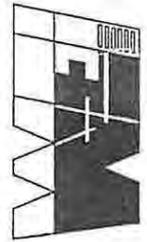
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● LEAD SAMPLE LOCATION

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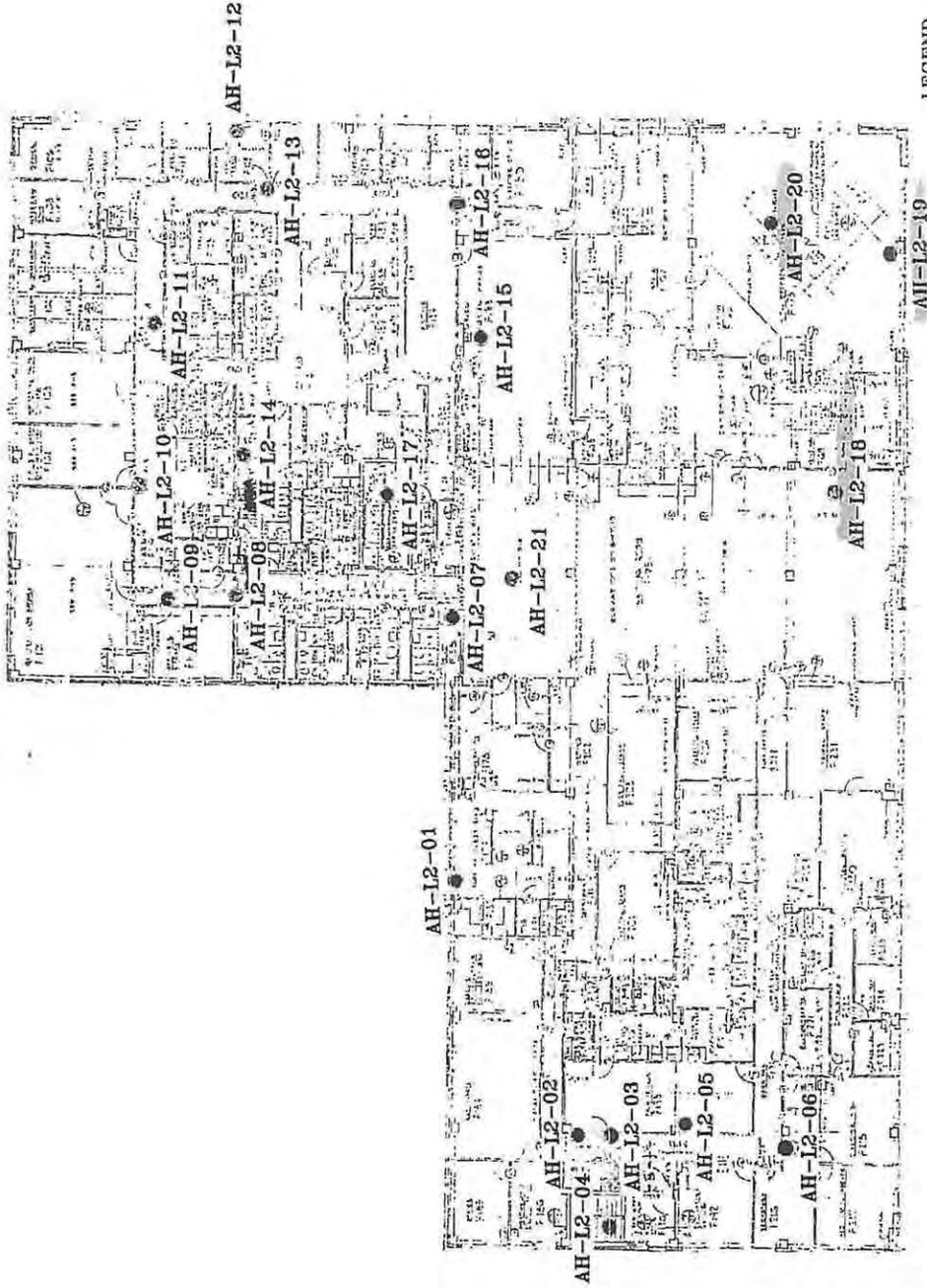
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Figure 6
Sample Location Map - 1st Floor
Aldredge Health Center
Fulton County, Georgia
WEI Project No. A11-175-1531

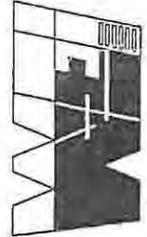


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● LEAD SAMPLE LOCATION

Figure 7
 Sample Location Map - 2nd Floor
 Aldredge Health Center
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AH-L3-10 AH-L3-09

AH-L3-06

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AH-L3-03

AH-L3-04

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● LEAD SAMPLE LOCATION

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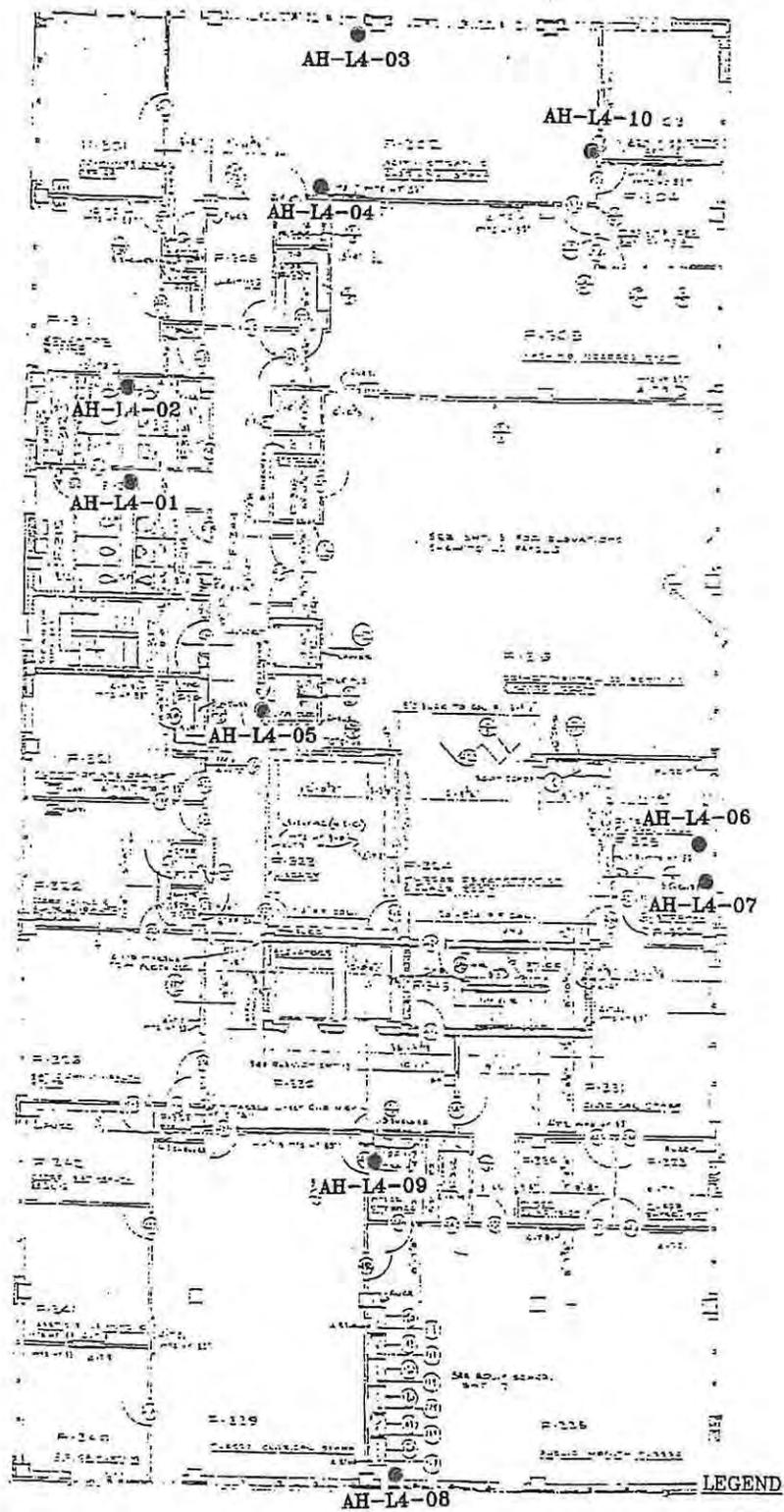


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Figure 8
Sample Location Map - 3rd Floor
Aldredge Health Center
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● LEAD SAMPLE LOCATION

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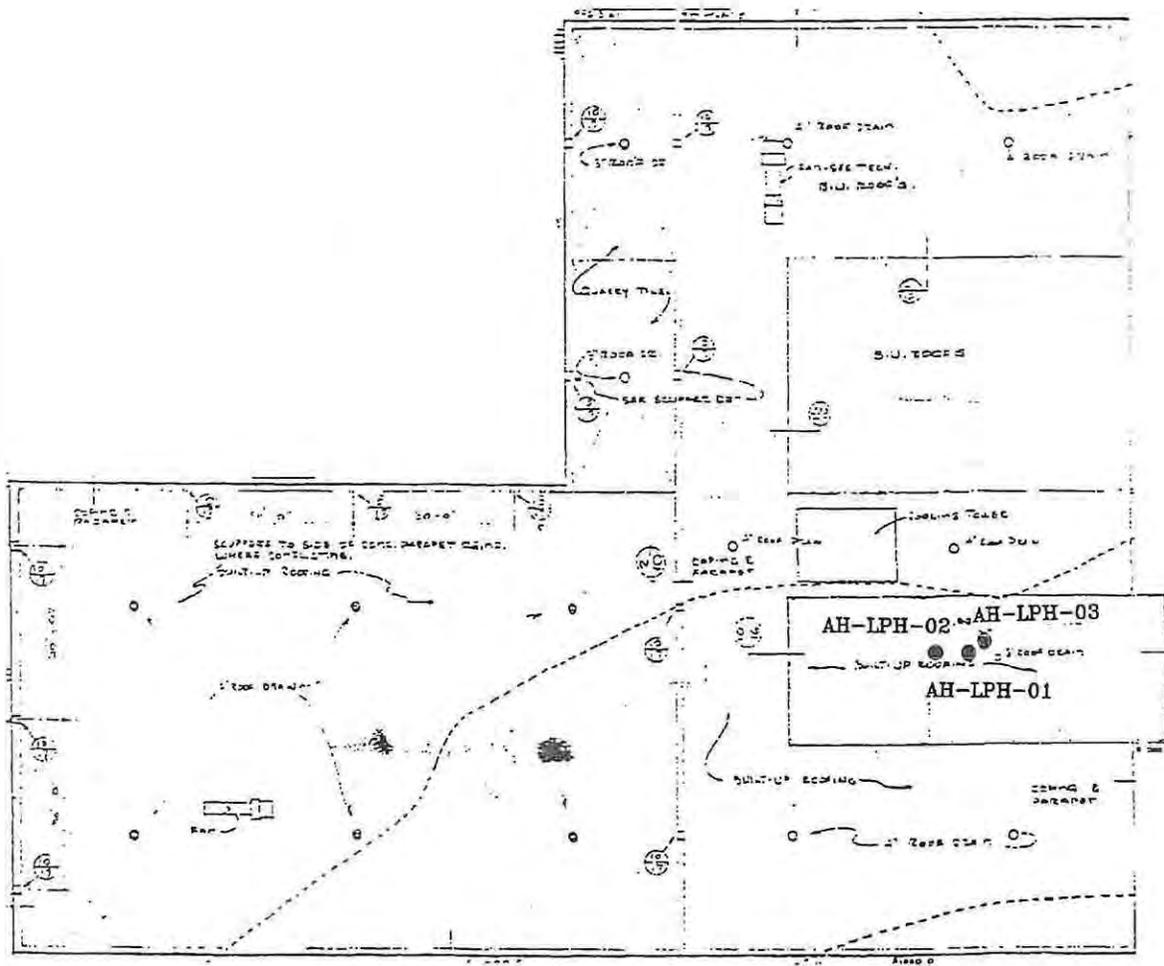
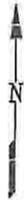


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Figure 9
 Sample Location Map - 4th Floor
 Aldredge Health Center
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● LEAD SAMPLE LOCATION

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Figure 10
 Sample Location Map - Roof
 Aldredge Health Center
 Fulton County, Georgia
 WEI Project No. ATL-175-1531

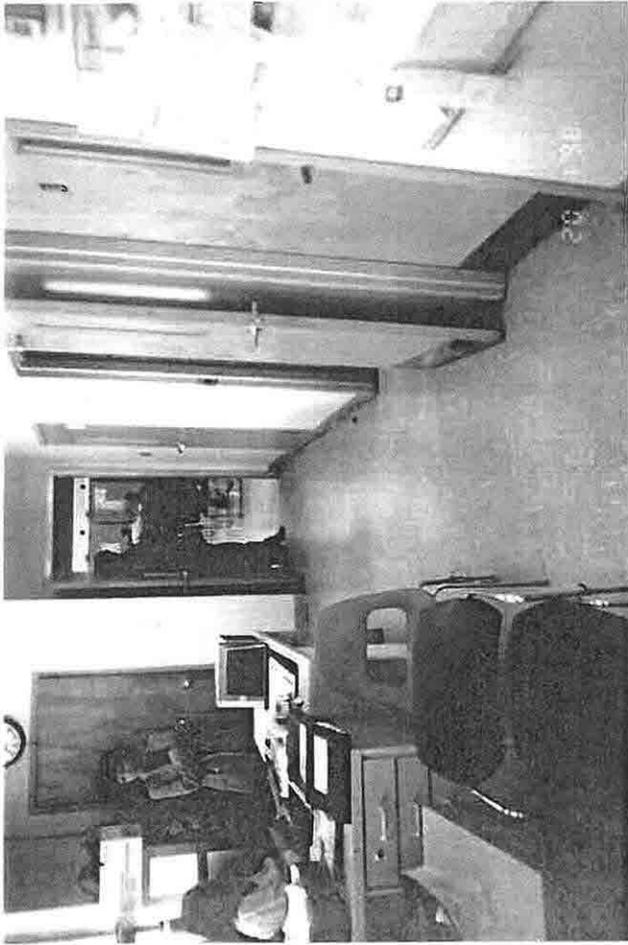
APPENDIX



Photograph 12 - Stairwell, Adhesive/Mastic Remnant Door 110, Ground to 1st Floor



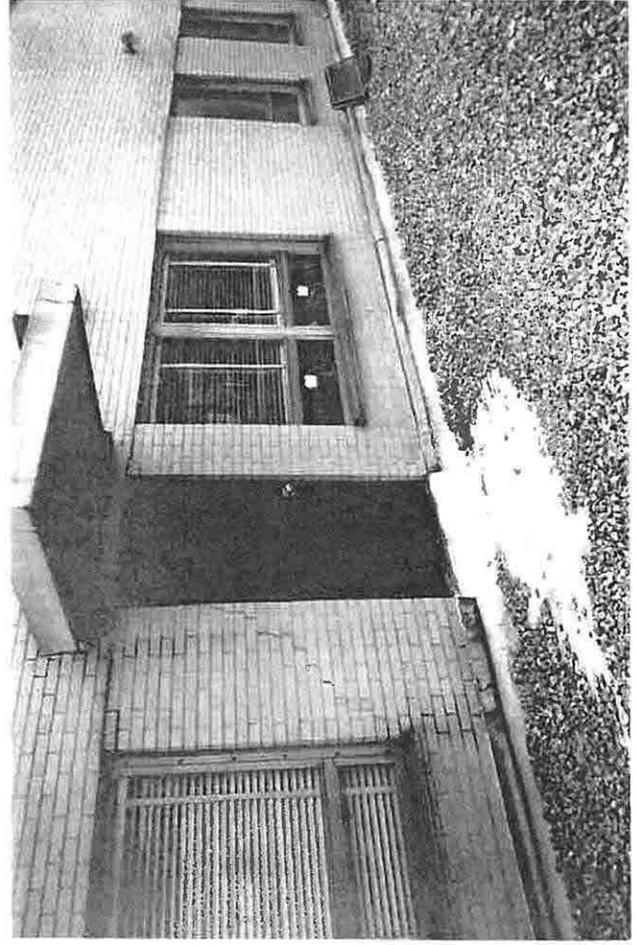
Photograph 11 - 3rd Floor Above Roof for the 2nd Floor Parapet Wall



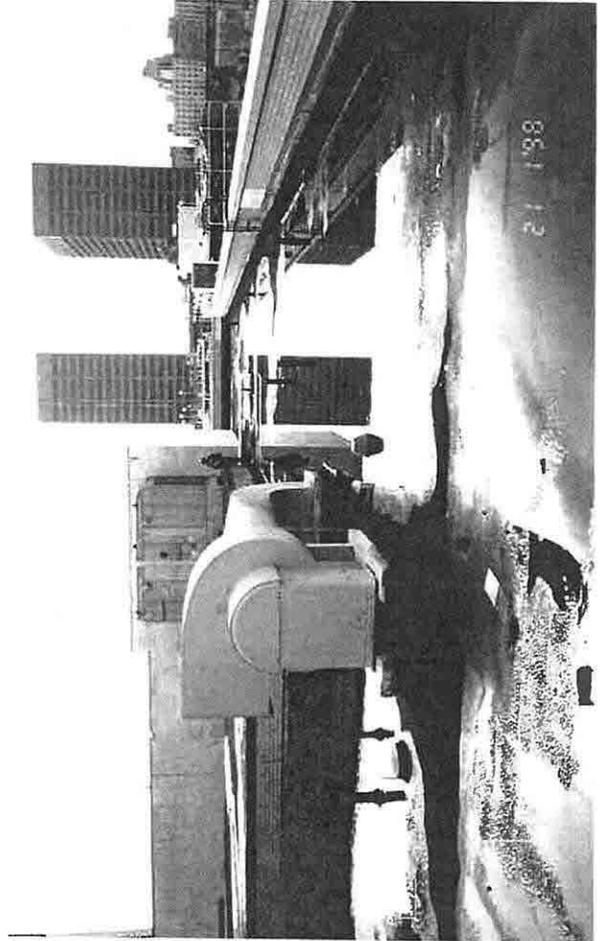
Photograph 4 - 2nd Floor, Room 234.11 - 12" x 12" Beige Floor Tile, Grey 12" x 12" in Cubicles



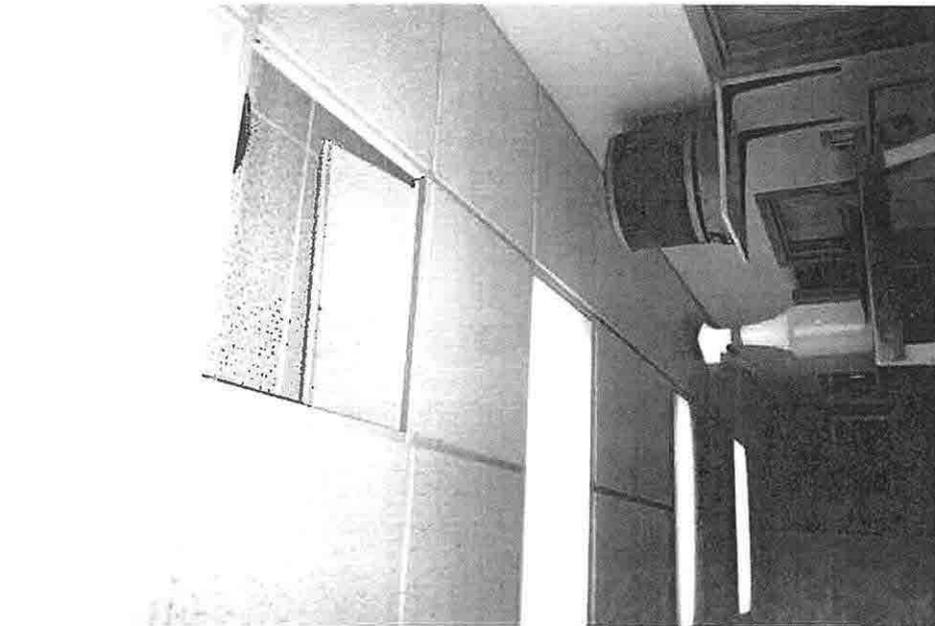
Photograph 5 - Room 234.0, Transite Vent Pipe for Lab Hood Above Ceiling



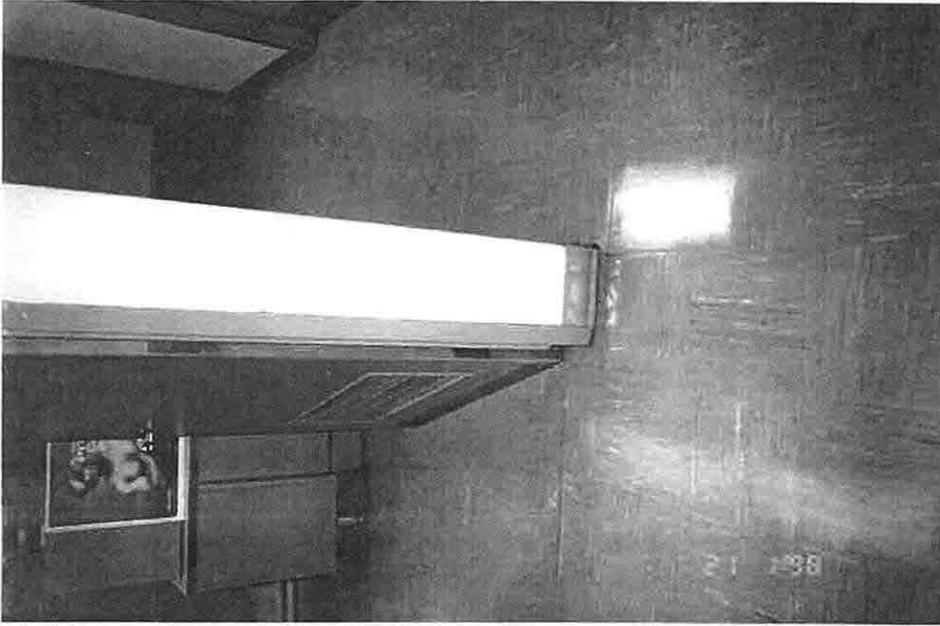
Photograph 6 - 3rd Floor Level, Roof for the 2nd Floor, Viewing East



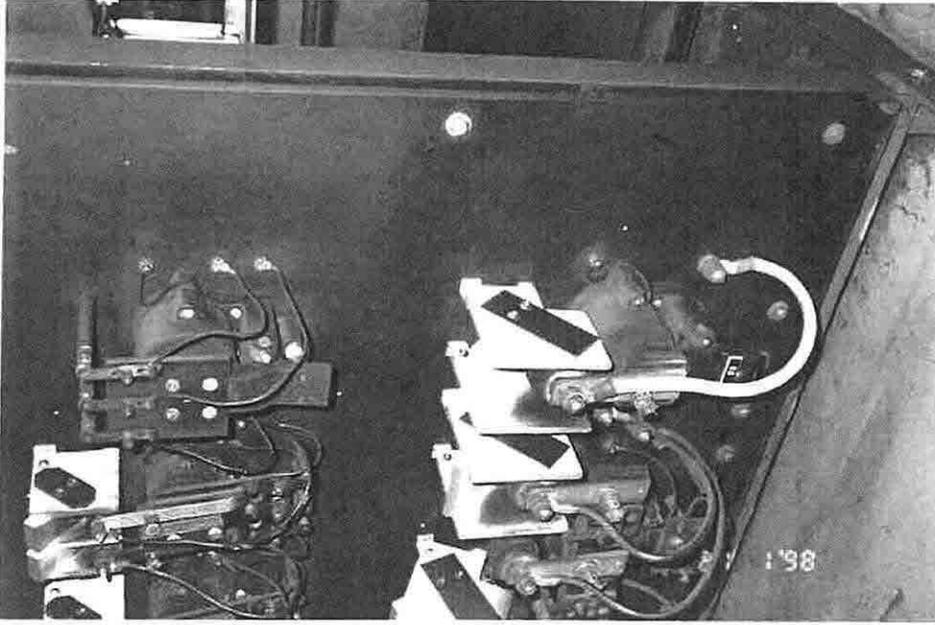
Photograph 7 - 4th Floor Roof, West Side Viewing South



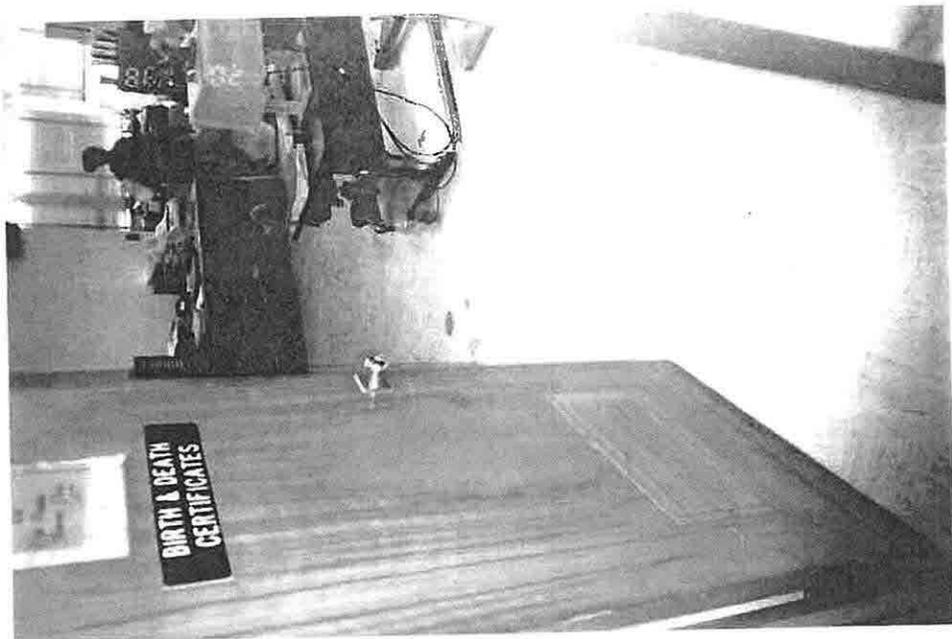
Photograph 8 - 2nd Floor, 1'x1' Ceiling Tile Adhered to Plaster on Wallboard Material Above



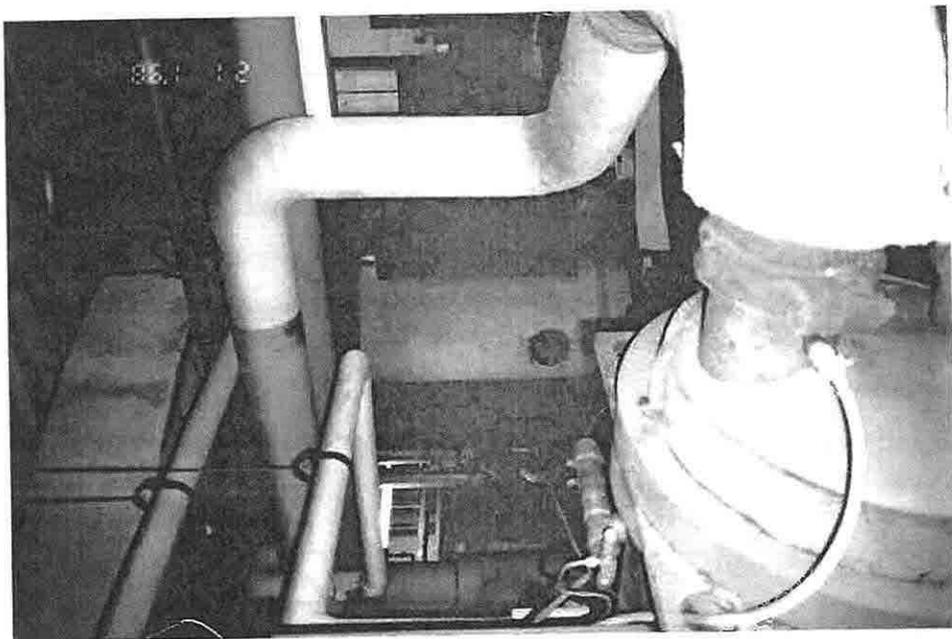
Photograph 9 - Hallway Viewing West, 2nd Floor, Room 241B With 9'x9' Floor Tiles to Left



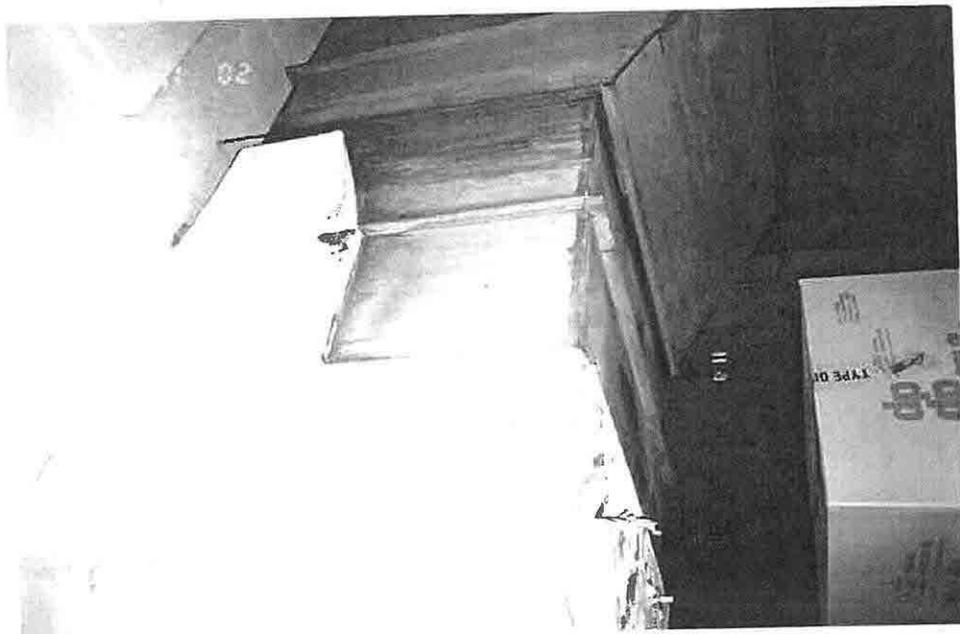
Photograph 10 - Penthouse Elevator Electrical Room Transit Switch Plate and Wire Insulation



Photograph 3 - 2nd Floor, Room 200 - Two Different 9"x9" Floor Tiles



Photograph 2 - Room 105, Hot Water Heater



Photograph 1 - Room 105, Mechanical Room - Public Building Maintenance, Air Handler Insulation, Viewing Northeast

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**CHAIN OF CUSTODY
 BULK ASBESTOS ANALYSIS**

Client Name: Willmer Engineering Phone: ()
 Address: _____ Fax: ()
 City, State, Zip: _____ Project Name: Aldrich Health Ctr
 Contact: _____ Project Number: F-214
 Sampler's Name: M. Spain / Donovan Sampling Date: 7/20/98

Sample ID	Sample Location/Description	Analysis Requested	Turnaround Time	Comments	For AES Use Only
1 AH-01	Mech. Rm. - Hot Water Tank	PLM	YCS		
2 AH-02	↓				
3 AH-03	↓				
4 AH-04	HVAC Plaster coat with canvas	PLM			
5 AH-05	HVAC Plaster coat	PLM			
6 AH-06	"				
7 AH-07	Green Pipe 3" dia - fitting				
8 AH-08	Blue 10" chilled water - foam glass				
9 AH-09	- plaster coat on fittings				
10 AH-10	↓				
11 AH-11	Orange 2" - fitting (pipe fittings)				
12 AH-12	" "				
13 AH-13	" "				
14 AH-14	Green 3" fitting (pipe)				
15 AH-15	Green 3"				
16 AH-16	12" Green - thin layer over				
17 AH-17	↓ foam glass				
18 AH-18	6" green line fitting				
19 AH-19	5" orange line fitting				
20 AH-20	5" orange line fitting				

Relinquished by: M. Spain Date/Time: 1/21/98 5:30 pm
 Received by: _____ Date/Time: _____
 Relinquished by: _____ Date/Time: _____
 Received by: _____ Date/Time: _____

Lab Recipient: J. H. - FOR LAB USE ONLY
 Date/Time: 1/21/98 5:30 pm Method of Shipment: _____

Please give results to Mariana for report
 Fax Summary to Donovan @ Willmer

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**CHAIN OF CUSTODY
BULK ASBESTOS ANALYSIS**

Client Name: Williams Engineering Phone: ()
 Address: _____ Fax: ()
 City, State, Zip: _____ Project Name: Albion Health Ch
 Contact: _____ Project Number: F-214
 Sampler's Name: M. Spain / Donovan Sampling Date: 1/20/98

Sample ID	Sample Location/Description	Analysis Requested	Turnaround Time	Comments	For AES Use Only
1 AH-21	6" gravel in ceiling	PLM	rej.		
2 AH-22	5" ramp tile				
3 AH-23	6" green line tile				
4 AH-24	104 - baseboard w/ mastic				
5 AH-25	1x1 tile glue in 104				
6 AH-26	Plaster Ceiling in 104				
7 AH-27	1x1 c.t. w/holes in 104				
8 AH-28	Drywall ceiling in 104				
9 AH-29	9x9 mosaic f.t. in 104				
10 AH-30	9x9 beige f.t. in 101				
11 AH-31	ceiling tile glue - in 101H				
12 AH-32	1x1 ceiling tile - hole pattern				
13 AH-33	in 101 - plaster ceiling				
14 AH-34	Drywall joint compound in 101				
15 AH-35	in 101 2x2 ceiling tile				
16 AH-36	12x12 floor tile (brown)				
17 AH-37	1st Floor Stair Rise Mastic				
18 AH-38	↓				
19 AH-39	2x2 ceiling tiles				
20 AH-40	9x9 beige f.t. - facilities				

Relinquished by: M. Spain Date/Time: 1/21/98 5:30pm
 Received by: _____ Date/Time: _____
 Relinquished by: _____ Date/Time: _____
 Received by: _____ Date/Time: _____

Lab Recipient: J. H. FOR LAB USE ONLY
 Date/Time: 1/21/98 5:30 pm Method of Shipment: _____

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**CHAIN OF CUSTODY
BULK ASBESTOS ANALYSIS**

Client Name: William Eng Phone: ()
 Address: _____ Fax: ()
 City, State, Zip: _____ Project Name: _____
 Contact: _____ Project Number: F-214
 Sampler's Name: M. Spain / ANNOVA Sampling Date: 1/20-21/98

Sample ID	Sample Location/Description	Analysis Requested	Turnaround Time	Comments	For AES Use Only
1 AH-41	1x1 tile adhesive - in 234	PLM	ref.		
2 AH-42	m234-clinic - plaster				
3 AH-43	m-234 clinic - 1x1 tile				
4 AH-44	12x12 Beige F.T. + mastic				
5 AH-45	12x12 Gray F.T. + mastic				
6 AH-46	Drycell joint compound				
7 AH-47	2nd fl hall - 2x2 c.t.				
8 AH-48	205P Plaster Wall				
9 AH-49	9x9 Beige floor tile 205P				
10 AH-50	flom molding - 205P grey				
11 AH-51	Wall Plaster - Janitor's closet				
12 AH-52	WAC - Mech Rm - inside ins.				
13 AH-53	WAC - Mech Rm - inside ins.				
14 AH-54	Light green 9x9 2nd fl Records				
15 AH-55	Light green 9x9 2nd fl Records				
16 AH-56	2nd fl brown baseboard w/old adhesive				
17 AH-57	2nd fl dry wall joint comp				
18 AH-58	2nd fl grey/green studs 9x9				
19 AH-59					
20 AH-60					

Relinquished by: M. Spain Date/Time: 1/21/98 5:30pm
 Received by: _____ Date/Time: _____
 Relinquished by: _____ Date/Time: _____
 Received by: _____ Date/Time: _____

Lab Recipient: J. A. ... FOR LAB USE ONLY
 Date/Time: 1/21/98 5:30 pm Method of Shipment: _____

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**CHAIN OF CUSTODY
BULK ASBESTOS ANALYSIS**

Client Name: William Eng Phone: () _____
 Address: _____ Fax: () _____
 City, State, Zip: _____ Project Name: _____
 Contact: _____ Project Number: F-214
 Sampler's Name: M. Spain / Novosa Sampling Date: 1/21/98

Sample ID	Sample Location/Description	Analysis Requested	Turnaround Time	Comments	For AES Use Only
1 AH-61	2nd Fl Records - tile joint & plate	PLM	Yes		
2 AH-62	1x1 ceiling tile - streak pattern - front lobby				
3 AH-63	1x1 ceiling tile - streak pattern				
4 AH-64	ceiling tile glue + plaster				
5 AH-65	Wall plaster - 2nd men's rm				
6 AH-66	Wall plaster - window outside 234.4				
7 AH-67	grey baseboard hallway "				
8 AH-68	Lab Bench top 234.5				
9 AH-69	Lab Bench top 234.5				
10 AH-70	ceiling plaster 234.0				
11 AH-71	tile adhesive 234.0				
12 AH-72	2x2 ceiling tile 234.0				
13 AH-73	1x1 ceiling tile whole 234.0				
14 AH-74	drywall joint compound 234.0				
15 AH-75	12x12 beige floor tile 234.0				
16 AH-76	3rd Fl 209B - 9kg speckled				
17 AH-77					
18 AH-78	brown baseboard - w/ tile fabric wall covering - salt eye area				
19 AH-79	brown baseboard hallway				
20 AH-80	fabric wall covering				

Relinquished by: M. Spain Date/Time: 1/21/98 5:20pm
 Received by: _____ Date/Time: _____
 Relinquished by: _____ Date/Time: _____
 Received by: _____ Date/Time: _____

Lab Recipient: J. [Signature] FOR LAB USE ONLY
 Date/Time: 1/21/98 5:39pm Method of Shipment: _____

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**CHAIN OF CUSTODY
BULK ASBESTOS ANALYSIS**

Client Name: William Eng. Phone: ()
 Address: _____ Fax: ()
 City, State, Zip: _____ Project Name: _____
 Contact: _____ Project Number: F-214
 Sampler's Name: M. Spain / Johnson Sampling Date: 1/21/98

Sample ID	Sample Location/Description	Analysis Requested	Turnaround Time	Comments	For AES Use Only
1 AH-81	Wall plaster, 3rd Fl. ^{in PM} open		Yes		
2 AH-82	Wall plaster, 3rd Fl. ^{in PM} open				
3 AH-83	fabric wall covering - 3rd Fl. ^{in PM} open				
4 AH-84	fabric wall covering 3rd Fl. ^{in PM} open				
5 AH-85	Basemat - black base board w/dly				
6 AH-86	Ceiling Plaster - Dental Hall				
7 AH-87	3rd Fl Ladies Rm - wall plaster				
8 AH-88	3rd Fl 9x9 ^{dark} precast				
9 AH-89	↓				
10 AH-90	grey floor holding				
11 AH-91	pipe fitting - 4th fl. ^{in PM} open ^{check}				
12 AH-92	speckled floor tile 9x9 4th fl. ^{in PM} open				
13 AH-93	4th Flon fabric wall cover				
14 AH-94	4th Flon pipe fitting in men's check				
15 AH-95	roof flashing				
16 96	↓				
17 97	↓				
18 AH-98	Resthouse drywall j.c.				
19 AH-99	↓				
20 AH-100	12x12 brown tile - Resthouse				

Relinquished by: M. Spain Date/Time: 1/21/98 5:30pm
 Received by: _____ Date/Time: _____
 Relinquished by: _____ Date/Time: _____
 Received by: _____ Date/Time: _____

Lab Recipient: J. H. FOR LAB USE ONLY
 Date/Time: 1/21/98 5:30 pm Method of Shipment: _____

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**CHAIN OF CUSTODY
 BULK ASBESTOS ANALYSIS**

Client Name: William Eng. Phone: () _____
 Address: _____ Fax: () _____
 City, State, Zip: _____ Project Name: _____
 Contact: _____ Project Number: F-214
 Sampler's Name: M. Spain/Donovan Sampling Date: 1/21/98

Sample ID	Sample Location/Description	Analysis Requested	Turnaround Time	Comments	For AES Use Only
1 AH-101	1x1 w/stracks - curly tile	PLM	Reg.		
2 AH-102	4th fl Plastic curly - sm. cont. rm.				
3 AH-103	4th fl 2x2 ceiling tile - textured				
4 AH-104	4th fl 2x2 curly tile - textured				
5 AH-105	4th fl curly plastic				
6 AH-106	4th fl rm 404 1x1 tiles on walls				
7 AH-107					
8 AH-108	↓				
9 AH-109	Ground floor dry wall y.c.				
10	2nd floor				
11 AH-110	South Parapet Roof Sample				
12 AH-111	West Parapet Roof Sample				
13 AH-112	Roof - Center				
14					
15					
16					
17					
18					
19					
20					

Relinquished by: M. Spain Date/Time: 1/21/98 5:30pm
 Received by: _____ Date/Time: _____
 Relinquished by: _____ Date/Time: _____
 Received by: _____ Date/Time: _____

Lab Recipient: Joh FOR LAB USE ONLY
 Date/Time: 1/21/98 5:30 Method of Shipment: pm

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 3781 Presidential Parkway, Suite 111, Atlanta, GA 30340
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CLIENT NAME : WILLMER ENGINEERING, INC. DATE : 1/28/98

PROJECT NAME : ALDRICH HEALTH CENTER / F-214

SAMPLE ID : AH-01 AES LAB NO : 103099 AES JOB NO : B6752

SAMPLE LOCATION :

SAMPLE - LIGHT GRAY SOFT SILTY TO FIBROUS.
 DESCRIPTION

RESULT OF BULK SAMPLE ANALYSIS (BY VISUAL VOLUMETRIC PERCENTAGE)			
ASBESTOS FIBERS		NONFIBROUS COMPONENTS	
CHRYBOTILE	35	VERMICULITE	
AMOSITE	10	BIOTITE	
CROCIDOLITE		MICA	
ANTHOPHYLLITE		PERLITE	
TREMOLITE		AGGREGATE/SAND	
ACTINOLITE		STYROFOAM	
NONASBESTOS FIBERS		OTHER COMPONENTS	
SYNTHETICS		ALUMINUM	
MINERAL WOOL		BITUMEN	
FIBERGLASS		RESILIENT MATERIAL	
CELLULOSE		GLUE	
ANIMAL HAIR		BINDERS	55
ANTIGORITE			

COMMENTS :

It is certified by the signatures below that this laboratory is accredited by the National Institute of Standards and Technology under NVLAP for the analysis of asbestos in building materials by polarized light microscopy. NVLAP Laboratory Code: 2033. Test report relates only to the items tested.

MICROANALYST : *A. Gendlin*
 ARKADIY GENDLIN

QUALITY CONTROL BY : *S. Arkhipov*
 SVETLANA ARKHIPOV

Analytical Environmental Services, Inc.
 3781 Presidential Parkway, Suite 111, Atlanta, GA 30340
 TEL: (770)457-8177 FAX: (770)457-8188

CLIENT NAME : WILLMER ENGINEERING, INC. DATE : 1/28/98

PROJECT NAME: ALDRICH HEALTH CENTER / F-214

SAMPLE ID : AH-02 AES LAB NO : 103100 AES JOB NO : B6752

SAMPLE LOCATION :

SAMPLE - LAYERED: 1) LIGHT GRAY SOFT FIBROUS TO SILTY WITH PAINT;
 DESCRIPTION 2) GRAY SOFT POWDERY TO FIBROUS.

RESULT OF BULK SAMPLE ANALYSIS (BY VISUAL VOLUMETRIC PERCENTAGE)			
ASBESTOS FIBERS		NONFIBROUS COMPONENTS	
CHRYBOTILE	10	VERMICULITE	
AMOSITE		BIOTITE	
CROCIDOLITE		MICA	
ANTHOPHYLLITE		PERLITE	
TREMOLITE		AGGREGATE/SAND	
ACTINOLITE		STYROFOAM	
NONASBESTOS FIBERS		OTHER COMPONENTS	
SYNTHETICS		ALUMINUM	
MINERAL WOOL	35	BITUMEN	
FIBERGLASS		RESILIENT MATERIAL	
CELLULOSE		GLUE	
ANIMAL HAIR		BINDERS	55
ANTIGORITE			

COMMENTS : PAINT INCLUDED AS BINDER.
 LAYER #1 CONTAINS 60% CHRYBOTILE.
 LAYER #2 DOES NOT CONTAIN ASBESTOS.

It is certified by the signatures below that this laboratory is accredited by the National Institute of Standards and Technology under NVLAP for the analysis of asbestos in building materials by polarized light microscopy. NVLAP Laboratory Code: 2033. Test report relates only to the items tested.

MICROANALYST : Arkadiy Gendlin
 ARKADIY GENDLIN

QUALITY CONTROL BY : Svetlana Arkhipov
 SVETLANA ARKHIPOV

Analytical Environmental Services, Inc.
 3781 Presidential Parkway, Suite 111, Atlanta, GA 30340
 TEL: (770)457-8177 FAX: (770)457-8188

CLIENT NAME : WILLMER ENGINEERING, INC. DATE : 1/28/98

PROJECT NAME: ALDRICH HEALTH CENTER / F-214

SAMPLE ID : AH-03 AES LAB NO : 103101 AES JOB NO : B6752

SAMPLE LOCATION :

SAMPLE - LIGHT GRAY SOFT SILTY TO FIBROUS.
 DESCRIPTION

RESULT OF BULK SAMPLE ANALYSIS (BY VISUAL VOLUMETRIC PERCENTAGE)			
ASBESTOS FIBERS		NONFIBROUS COMPONENTS	
CHRYBOTILE	35	VERMICULITE	
AMOSITE	10	BIOTITE	
CROCIDOLITE		MICA	
ANTHOPHYLLITE		PERLITE	
TREMOLITE		AGGREGATE/SAND	
ACTINOLITE		STYROFOAM	
NONASBESTOS FIBERS		OTHER COMPONENTS	
SYNTHETICS		ALUMINUM	
MINERAL WOOL		BITUMEN	
FIBERGLASS		RESILIENT MATERIAL	
CELLULOSE		GLUE	
ANIMAL HAIR		BINDERS	55
ANTIGORITE			

COMMENTS :

It is certified by the signatures below that this laboratory is accredited by the National Institute of Standards and Technology under NVLAP for the analysis of asbestos in building materials by polarized light microscopy. NVLAP Laboratory Code: 2033. Test report relates only to the items tested.

MICROANALYST : A. Gendlin

QUALITY CONTROL BY : S. Arkhipov

ARKADIY GENDLIN

SVETLANA ARKHIPOV

Analytical Environmental Services, Inc.
 3781 Presidential Parkway, Suite 111, Atlanta, GA 30340
 TEL: (770)457-8177 FAX: (770)457-8188

CLIENT NAME : WILLMER ENGINEERING, INC. DATE : 1/28/98

PROJECT NAME: ALDRICH HEALTH CENTER / F-214

SAMPLE ID : AH-04 AES LAB NO : 103102 AES JOB NO : B6752

SAMPLE LOCATION :

SAMPLE - LAYERED: 1) LIGHT BROWN SEMI-HARD SILTY TO WOVEN WITH GLUE &
 DESCRIPTION PAINT; 2) GRAY SOFT FIBROUS TO SILTY.

RESULT OF BULK SAMPLE ANALYSIS (BY VISUAL VOLUMETRIC PERCENTAGE)			
ASBESTOS FIBERS		NONFIBROUS COMPONENTS	
CHRYBOTILE	15	VERMICULITE	
AMOSITE		BIOTITE	
CROCIDOLITE		MICA	
ANTHOPHYLLITE		PERLITE	
TREMOLITE		AGGREGATE/SAND	
ACTINOLITE		STYROFOAM	
NONASBESTOS FIBERS		OTHER COMPONENTS	
SYNTHETICS		ALUMINUM	
MINERAL WOOL		BITUMEN	
FIBERGLASS		RESILIENT MATERIAL	
CELLULOSE	35	GLUE	3
ANIMAL HAIR		BINDERS	47
ANTIGORITE			

COMMENTS : PAINT INCLUDED AS BINDER.
 LAYER #2 CONTAINS 50% CHRYBOTILE.
 LAYER #1 DOES NOT CONTAIN ASBESTOS.

It is certified by the signatures below that this laboratory is accredited by the National Institute of Standards and Technology under NVLAP for the analysis of asbestos in building materials by polarized light microscopy. NVLAP Laboratory Code: 2033. Test report relates only to the items tested.

MICROANALYST : A. Gendlin

QUALITY CONTROL BY : S. Arkhipov

ARKADY GENDLIN

SVETLANA ARKHIPOV

Analytical Environmental Services, Inc.
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 TEL: (770)457-8177 FAX: (770)457-8188

CLIENT NAME : WILLMER ENGINEERING, INC. DATE : 1/28/98

PROJECT NAME: ALDRICH HEALTH CENTER / F-214

SAMPLE ID : AH-05 AES LAB NO : 103103 AES JOB NO : B6752

SAMPLE LOCATION :

SAMPLE - LAYERED: 1) LIGHT BROWN SOFT FIBROUS WITH GLUE & PAINT;
 DESCRIPTION 2) LIGHT GRAY SOFT FIBROUS TO SILTY.

RESULT OF BULK SAMPLE ANALYSIS (BY VISUAL VOLUMETRIC PERCENTAGE)			
ASBESTOS FIBERS		NONFIBROUS COMPONENTS	
CHRYBOTILE	35	VERMICULITE	
AMOSITE		BIOTITE	
CROCIDOLITE		MICA	
ANTHOPHYLLITE		PERLITE	
TREMOLITE		AGGREGATE/SAND	
ACTINOLITE		STYROFOAM	
NONASBESTOS FIBERS		OTHER COMPONENTS	
SYNTHETICS		ALUMINUM	
MINERAL WOOL		BITUMEN	
FIBERGLASS		RESILIENT MATERIAL	
CELLULOSE	15	GLUE	3
ANIMAL HAIR		BINDERS	47
ANTIGORITE			

COMMENTS : PAINT INCLUDED AS BINDER.
 LAYER #2 CONTAINS 50% CHRYBOTILE.
 LAYER #1 DOES NOT CONTAIN ASBESTOS.

It is certified by the signatures below that this laboratory is accredited by the National Institute of Standards and Technology under NVLAP for the analysis of asbestos in building materials by polarized light microscopy. NVLAP Laboratory Code: 2033. Test report relates only to the items tested.

MICROANALYST : A. Gendlin

ARKADIY GENDLIN

QUALITY CONTROL BY : S. Arkhipov

SVETLANA ARKHIPOV

Analytical Environmental Services, Inc.
 3781 Presidential Parkway, Suite 111, Atlanta, GA 30340
 TEL: (770)457-8177 FAX: (770)457-8188

CLIENT NAME : WILLMER ENGINEERING, INC. DATE : 1/28/98

PROJECT NAME: ALDRICH HEALTH CENTER / F-214

SAMPLE ID : AH-06 AES LAB NO : 103104 AES JOB NO : B6752

SAMPLE LOCATION :

SAMPLE - LAYERED: 1) LIGHT BROWN SOFT FIBROUS WITH ALUMINUM, GLUE & PAINT
 DESCRIPTION 2) LIGHT GRAY SOFT SILTY TO FIBROUS.

RESULT OF BULK SAMPLE ANALYSIS (BY VISUAL VOLUMETRIC PERCENTAGE)			
ASBESTOS FIBERS		NONFIBROUS COMPONENTS	
CHRYBOTILE	30	VERMICULITE	
AMOSITE		BIOTITE	
CROCIDOLITE		MICA	
ANTHOPHYLLITE		PERLITE	
TREMOLITE		AGGREGATE/SAND	
ACTINOLITE		STYROFOAM	
NONASBESTOS FIBERS		OTHER COMPONENTS	
SYNTHETICS		ALUMINUM	2
MINERAL WOOL	5	BITUMEN	
FIBERGLASS		RESILIENT MATERIAL	
CELLULOSE	10	GLUE	2
ANIMAL HAIR		BINDERS	51
ANTIGORITE			

COMMENTS : PAINT INCLUDED AS BINDER.
 LAYER #2 CONTAINS 40% CHRYBOTILE.
 LAYER #1 DOES NOT CONTAIN ASBESTOS.

It is certified by the signatures below that this laboratory is accredited by the National Institute of Standards and Technology under NVLAP for the analysis of asbestos in building materials by polarized light microscopy. NVLAP Laboratory Code: 2033. Test report relates only to the items tested.

MICROANALYST : A. Gendlin

ARKADIY GENDLIN

QUALITY CONTROL BY : S. Arkhipov

SVETLANA ARKHIPOV

Analytical Environmental Services, Inc.
 3781 Presidential Parkway, Suite 111, Atlanta, GA 30340
 TEL: (770)457-8177 FAX: (770)457-8188

CLIENT NAME : WILLMER ENGINEERING, INC. DATE : 1/28/98

PROJECT NAME: ALDRICH HEALTH CENTER / F-214

SAMPLE ID : AH-07 AES LAB NO : 103105 AES JOB NO : B6752

SAMPLE LOCATION :

SAMPLE - LAYERED: 1) GRAY SEMI-HARD SILTY TO WOVEN WITH PAINT;
 DESCRIPTION 2) GRAY SOFT FIBROUS TO SILTY.

RESULT OF BULK SAMPLE ANALYSIS (BY VISUAL VOLUMETRIC PERCENTAGE)			
ASBESTOS FIBERS		NONFIBROUS COMPONENTS	
CHRYBOTILE		VERMICULITE	
AMOSITE		BIOTITE	
CROCIDOLITE		MICA	
ANTHOPHYLLITE		PERLITE	
TREMOLITE		AGGREGATE/SAND	
ACTINOLITE		STYROFOAM	
NONASBESTOS FIBERS		OTHER COMPONENTS	
SYNTHETICS		ALUMINUM	
MINERAL WOOL	45	BITUMEN	
FIBERGLASS		RESILIENT MATERIAL	
CELLULOSE	15	GLUE	
ANIMAL HAIR		BINDERS	40
ANTIGORITE			

COMMENTS : PAINT INCLUDED AS BINDER.

It is certified by the signatures below that this laboratory is accredited by the National Institute of Standards and Technology under NVLAP for the analysis of asbestos in building materials by polarized light microscopy. NVLAP Laboratory Code: 2033. Test report relates only to the items tested.

MICROANALYST : A. Gendlin

QUALITY CONTROL BY : S. Arkhipov

ARKADIY GENDLIN

SVETLANA ARKHIPOV

Analytical Environmental Services, Inc.
 3781 Presidential Parkway, Suite 111, Atlanta, GA 30340
 TEL: (770)457-8177 FAX: (770)457-8188

CLIENT NAME : WILLMER ENGINEERING, INC. DATE : 1/28/98

PROJECT NAME : ALDRICH HEALTH CENTER / F-214

SAMPLE ID : AH-08 AES LAB NO : 103106 AES JOB NO : B6752

SAMPLE LOCATION :

SAMPLE - GRAY SOFT FIBROUS TO SILTY.
 DESCRIPTION

RESULT OF BULK SAMPLE ANALYSIS (BY VISUAL VOLUMETRIC PERCENTAGE)			
ASBESTOS FIBERS		NONFIBROUS COMPONENTS	
CHRYBOTILE	50	VERMICULITE	
AMOSITE		BIOTITE	
CROCIDOLITE		MICA	
ANTHOPHYLLITE		PERLITE	
TREMOLITE		AGGREGATE/SAND	
ACTINOLITE		STYROFOAM	
NONASBESTOS FIBERS		OTHER COMPONENTS	
SYNTHETICS		ALUMINUM	
MINERAL WOOL		BITUMEN	
FIBERGLASS		RESILIENT MATERIAL	
CELLULOSE	2	GLUE	
ANIMAL HAIR		BINDERS	48
ANTIGORITE			

COMMENTS :

It is certified by the signatures below that this laboratory is accredited by the National Institute of Standards and Technology under NVLAP for the analysis of asbestos in building materials by polarized light microscopy. NVLAP Laboratory Code: 2033. Test report relates only to the items tested.

MICROANALYST : *A. Gendlin*

ARKADIY GENDLIN

QUALITY CONTROL BY : *S. Arkhipov*

SVETLANA ARKHIPOV

Analytical Environmental Services, Inc.
 3781 Presidential Parkway, Suite 111, Atlanta, GA 30340
 TEL: (770)457-8177 FAX: (770)457-8188

CLIENT NAME : WILLMER ENGINEERING, INC. DATE : 1/28/98

PROJECT NAME: ALDRICH HEALTH CENTER / F-214

SAMPLE ID : AH-09 AES LAB NO : 103107 AES JOB NO : B6752

SAMPLE LOCATION :

SAMPLE - LAYERED: 1) LIGHT BROWN SEMI-HARD SILTY TO FIBROUS WITH PAINT;
 DESCRIPTION 2) LIGHT BROWN SEMI-HARD SILTY TO FIBROUS;
 3) BLACK SEMI-HARD BITUMENOUS TO VACUOUS WITH FIBERS.

RESULT OF BULK SAMPLE ANALYSIS (BY VISUAL VOLUMETRIC PERCENTAGE)			
ASBESTOS FIBERS		NONFIBROUS COMPONENTS	
CHRYSTILE	35	VERMICULITE	
AMOSITE		BIOTITE	
CROCIDOLITE		MICA	
ANTHOPHYLLITE		PERLITE	
TREMOLITE		AGGREGATE/SAND	
ACTINOLITE		STYROFOAM	3
NONASBESTOS FIBERS		OTHER COMPONENTS	
SYNTHETICS		ALUMINUM	
MINERAL WOOL		BITUMEN	2
FIBERGLASS		RESILIENT MATERIAL	
CELLULOSE	10	GLUE	
ANIMAL HAIR		BINDERS	50
ANTIGORITE			

COMMENTS : PAINT INCLUDED AS BINDER.
 LAYER #2 CONTAINS 40% CHRYSTILE. LAYER #3 CONTAINS 10% CHRYSTILE
 LAYER #1 DOES NOT CONTAIN ASBESTOS.

It is certified by the signatures below that this laboratory is accredited by the National Institute of Standards and Technology under NVLAP for the analysis of asbestos in building materials by polarized light microscopy. NVLAP Laboratory Code: 2033. Test report relates only to the items tested.

MICROANALYST : A. Gendlin

QUALITY CONTROL BY : Svetlana Arkhipov

ARKADIY GENDLIN

SVETLANA ARKHIPOV

Analytical Environmental Services, Inc.
 3781 Presidential Parkway, Suite 111, Atlanta, GA 30340
 TEL: (770)457-8177 FAX: (770)457-8188

CLIENT NAME : WILLMER ENGINEERING, INC. DATE : 1/28/98

PROJECT NAME: ALDRICH HEALTH CENTER / F-214

SAMPLE ID : AH-10 AES LAB NO : 103108 AES JOB NO : B6752

SAMPLE LOCATION :

SAMPLE - LAYERED: 1) LIGHT BROWN SEMI-HARD SILTY TO FIBROUS WITH PAINT;
 DESCRIPTION 2) LIGHT BROWN SEMI-HARD SILTY TO FIBROUS;
 3) BLACK SEMI-HARD BITUMENOUS TO VACUOUS WITH FIBERS.

RESULT OF BULK SAMPLE ANALYSIS (BY VISUAL VOLUMETRIC PERCENTAGE)			
ASBESTOS FIBERS		NONFIBROUS COMPONENTS	
CHRYBOTILE	35	VERMICULITE	
AMOSITE		BIOTITE	
CROCIDOLITE		MICA	
ANTHOPHYLLITE		PERLITE	
TREMOLITE		AGGREGATE/SAND	
ACTINOLITE		STYROFOAM	2
NONASBESTOS FIBERS		OTHER COMPONENTS	
SYNTHETICS		ALUMINUM	
MINERAL WOOL		BITUMEN	3
FIBERGLASS		RESILIENT MATERIAL	
CELLULOSE	10	GLUE	
ANIMAL HAIR		BINDERS	50
ANTIGORITE			

COMMENTS : PAINT INCLUDED AS BINDER.
 LAYER #2 CONTAINS 40% CHRYBOTILE. LAYER #3 CONTAINS 10% CHRYBOTILE
 LAYER #1 DOES NOT CONTAIN ASBESTOS.

It is certified by the signatures below that this laboratory is accredited by the National Institute of Standards and Technology under NVLAP for the analysis of asbestos in building materials by polarized light microscopy. NVLAP Laboratory Code: 2033. Test report relates only to the items tested.

MICROANALYST : A. Gendlin

QUALITY CONTROL BY : Svetlana Arkhipov

ARKADIY GENDLIN

SVETLANA ARKHIPOV

Analytical Environmental Services, Inc.
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CLIENT NAME : WILLMER ENGINEERING, INC. DATE : 1/28/98

PROJECT NAME: ALDRICH HEALTH CENTER / F-214

SAMPLE ID : AH-11 AES LAB NO : 103109 AES JOB NO : B6752

SAMPLE LOCATION :

SAMPLE - LAYERED: 1) LIGHT BROWN SEMI-HARD SILTY TO WOVEN WITH PAINT;
 DESCRIPTION 2) LIGHT GRAY SOFT SILTY TO FIBROUS;
 3) GRAY SOFT FIBROUS TO SILTY.

RESULT OF BULK SAMPLE ANALYSIS (BY VISUAL VOLUMETRIC PERCENTAGE)			
ASBESTOS FIBERS		NONFIBROUS COMPONENTS	
CHRYBOTILE	5	VERMICULITE	
AMOSITE		BIOTITE	
CROCIDOLITE		MICA	
ANTHOPHYLLITE		PERLITE	
TREMOLITE		AGGREGATE/SAND	
ACTINOLITE		STYROFOAM	
NONASBESTOS FIBERS		OTHER COMPONENTS	
SYNTHETICS		ALUMINUM	
MINERAL WOOL	40	BITUMEN	
FIBERGLASS		RESILIENT MATERIAL	
CELLULOSE	10	GLUE	
ANIMAL HAIR		BINDERS	45
ANTIGORITE			

COMMENTS : PAINT INCLUDED AS BINDER.
 LAYER #2 CONTAINS 40% CHRYBOTILE. LAYERS # 1,3 DO NOT CONTAIN ASBESTOS.

It is certified by the signatures below that this laboratory is accredited by the National Institute of Standards and Technology under NVLAP for the analysis of asbestos in building materials by polarized light microscopy. NVLAP Laboratory Code: 2033. Test report relates only to the items tested.

MICROANALYST A. Gendlin
 ARKADIY GENDLIN

QUALITY CONTROL BY : Svetlana Arkhipov
 SVETLANA ARKHIPOV

Analytical Environmental Services, Inc.
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CLIENT NAME : WILLMER ENGINEERING, INC. DATE : 1/28/98
 PROJECT NAME: ALDRICH HEALTH CENTER / F-214
 SAMPLE ID : AH-12 AES LAB NO : 103110 AES JOB NO : B6752

SAMPLE LOCATION :

SAMPLE - LAYERED: 1) LIGHT BROWN SEMI-HARD SILTY TO WOVEN WITH PAINT;
 DESCRIPTION 2) LIGHT GRAY SOFT SILTY TO FIBROUS;
 3) GRAY SOFT FIBROUS TO SILTY.

RESULT OF BULK SAMPLE ANALYSIS (BY VISUAL VOLUMETRIC PERCENTAGE)			
ASBESTOS FIBERS		NONFIBROUS COMPONENTS	
CHRYBOTILE	15	VERMICULITE	
AMOSITE		BIOTITE	
CROCIDOLITE		MICA	
ANTHOPHYLLITE		PERLITE	
TREMOLITE		AGGREGATE/SAND	
ACTINOLITE		STYROFOAM	
NONASBESTOS FIBERS		OTHER COMPONENTS	
SYNTHETICS		ALUMINUM	
MINERAL WOOL	25	BITUMEN	
FIBERGLASS		RESILIENT MATERIAL	
CELLULOSE	15	GLUE	
ANIMAL HAIR		BINDERS	45
ANTIGORITE			

COMMENTS : PAINT INCLUDED AS BINDER.
 LAYER #2 CONTAINS 40% CHRYBOTILE. LAYERS # 1,3 DO NOT CONTAIN ASBESTOS.

It is certified by the signatures below that this laboratory is accredited by the National Institute of Standards and Technology under NVLAP for the analysis of asbestos in building materials by polarized light microscopy. NVLAP Laboratory Code: 2033. Test report relates only to the items tested.

MICROANALYST : A. Gendlin

QUALITY CONTROL BY : Svetlana Arkhipov

ARKADIY GENDLIN

SVETLANA ARKHIPOV

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CLIENT NAME : WILLMER ENGINEERING, INC. DATE : 1/28/98

PROJECT NAME: ALDRICH HEALTH CENTER / F-214

SAMPLE ID : AH-13 AES LAB NO : 103111 AES JOB NO : B6752

SAMPLE LOCATION :

SAMPLE - LAYERED: 1) LIGHT BROWN SEMI-HARD SILTY TO WOVEN WITH PAINT;
 DESCRIPTION 2) LIGHT GRAY SOFT SILTY TO FIBROUS;
 3) GRAY SOFT FIBROUS TO SILTY.

RESULT OF BULK SAMPLE ANALYSIS (BY VISUAL VOLUMETRIC PERCENTAGE)			
ASBESTOS FIBERS		NONFIBROUS COMPONENTS	
CHRYBOTILE	15	VERMICULITE	
AMOSITE		BIOTITE	
CROCIDOLITE		MICA	
ANTHOPHYLLITE		PERLITE	
TREMOLITE		AGGREGATE/SAND	
ACTINOLITE		STYROFOAM	
NONASBESTOS FIBERS		OTHER COMPONENTS	
SYNTHETICS		ALUMINUM	
MINERAL WOOL	25	BITUMEN	
FIBERGLASS		RESILIENT MATERIAL	
CELLULOSE	15	GLUE	
ANIMAL HAIR		BINDERS	45
ANTIGORITE			

COMMENTS : PAINT INCLUDED AS BINDER.
 LAYER #2 CONTAINS 40% CHRYBOTILE. LAYERS # 1,3 DO NOT CONTAIN ASBESTOS.

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MICROANALYST : A. Gendlin

QUALITY CONTROL BY :

ARKADIY GENDLIN

Svetlana Arkhipov
 SVETLANA ARKHIPOV

Analytical Environmental Services, Inc.
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CLIENT NAME : WILLMER ENGINEERING, INC. DATE : 1/28/98

PROJECT NAME: ALDRICH HEALTH CENTER / F-214

SAMPLE ID : AH-14 AES LAB NO : 103112 AES JOB NO : B6752

SAMPLE LOCATION :

SAMPLE - LAYERED: 1) GRAY SEMI-HARD SILTY TO WOVEN WITH PAINT;
 DESCRIPTION 2) GRAY SOFT FIBROUS TO SILTY.

RESULT OF BULK SAMPLE ANALYSIS (BY VISUAL VOLUMETRIC PERCENTAGE)			
ASBESTOS FIBERS		NONFIBROUS COMPONENTS	
CHRYBOTILE		VERMICULITE	
AMOSITE		BIOTITE	
CROCIDOLITE		MICA	
ANTHOPHYLLITE		PERLITE	
TREMOLITE		AGGREGATE/SAND	
ACTINOLITE		STYROFOAM	
NONASBESTOS FIBERS		OTHER COMPONENTS	
SYNTHETICS		ALUMINUM	
MINERAL WOOL	45	BITUMEN	
FIBERGLASS		RESILIENT MATERIAL	
CELLULOSE	15	GLUE	
ANIMAL HAIR		BINDERS	40
ANTIGORITE			

COMMENTS : PAINT INCLUDED AS BINDER.

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MICROANALYST : *A. Gendlin*
 ARKADIY GENDLIN

QUALITY CONTROL BY : *S. Arkhipov*
 SVETLANA ARKHIPOV

Analytical Environmental Services, Inc.
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CLIENT NAME : WILLMER ENGINEERING, INC. DATE : 1/28/98

PROJECT NAME: ALDRICH HEALTH CENTER / F-214

SAMPLE ID : AH-15 AES LAB NO : 103113 AES JOB NO : B6752

SAMPLE LOCATION :

SAMPLE - LAYERED: 1) GRAY SEMI-HARD SILTY TO WOVEN WITH PAINT;
 DESCRIPTION 2) GRAY SOFT FIBROUS TO SILTY.

RESULT OF BULK SAMPLE ANALYSIS (BY VISUAL VOLUMETRIC PERCENTAGE)			
ASBESTOS FIBERS		NONFIBROUS COMPONENTS	
CHRYBOTILE		VERMICULITE	
AMOSITE		BIOTITE	
CROCIDOLITE		MICA	
ANTHOPHYLLITE		PERLITE	
TREMOLITE		AGGREGATE/SAND	
ACTINOLITE		STYROFOAM	
NONASBESTOS FIBERS		OTHER COMPONENTS	
SYNTHETICS		ALUMINUM	
MINERAL WOOL	50	BITUMEN	
FIBERGLASS		RESILIENT MATERIAL	
CELLULOSE	10	GLUE	
ANIMAL HAIR		BINDERS	40
ANTIGORITE			

COMMENTS : PAINT INCLUDED AS BINDER.

It is certified by the signatures below that this laboratory is accredited by the National Institute of Standards and Technology under NVLAP for the analysis of asbestos in building materials by polarized light microscopy. NVLAP Laboratory Code: 2033. Test report relates only to the items tested.

MICROANALYST : A. Gendlin

QUALITY CONTROL BY : S. Arkhipov

ARKADY GENDLIN

SVETLANA ARKHIPOV

Analytical Environmental Services, Inc.
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CLIENT NAME : WILLMER ENGINEERING, INC. DATE : 1/28/98

PROJECT NAME : ALDRICH HEALTH CENTER / F-214

SAMPLE ID : AH-16 AES LAB NO : 103114 AES JOB NO : B6752

SAMPLE LOCATION :

SAMPLE - LIGHT BROWN SOFT FIBROUS WITH BLACK MASTIC & PAINT.
 DESCRIPTION

RESULT OF BULK SAMPLE ANALYSIS (BY VISUAL VOLUMETRIC PERCENTAGE)			
ASBESTOS FIBERS		NONFIBROUS COMPONENTS	
CHRYSTILE	< 1	VERMICULITE	
AMOSITE		BIOTITE	
CROCIDOLITE		MICA	
ANTHOPHYLLITE		PERLITE	
TREMOLITE		AGGREGATE/SAND	
ACTINOLITE		STYROFOAM	
NONASBESTOS FIBERS		OTHER COMPONENTS	
SYNTHETICS		ALUMINUM	
MINERAL WOOL		BITUMEN	1
FIBERGLASS		RESILIENT MATERIAL	
CELLULOSE	90	GLUE	
ANIMAL HAIR		BINDERS	9
ANTIGORITE			

COMMENTS : PAINT INCLUDED AS BINDER.
 BITUMEN CONTAINS 3% CHRYSTILE.
 FIBROUS DO NOT CONTAIN ASBESTOS.

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MICROANALYST : *A. Gendlin*

QUALITY CONTROL BY : *S. Arkhipov*

ARKADIY GENDLIN

SVETLANA ARKHIPOV

Analytical Environmental Services, Inc.
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CLIENT NAME : WILLMER ENGINEERING, INC. DATE : 1/28/98

PROJECT NAME : ALDRICH HEALTH CENTER / F-214

SAMPLE ID : AH-17 AES LAB NO : 103115 AES JOB NO : B6752

SAMPLE LOCATION :

SAMPLE - LIGHT BROWN SOFT FIBROUS WITH BLACK MASTIC.
 DESCRIPTION

RESULT OF BULK SAMPLE ANALYSIS (BY VISUAL VOLUMETRIC PERCENTAGE)			
ASBESTOS FIBERS		NONFIBROUS COMPONENTS	
CHRYBOTILE		VERMICULITE	
AMOSITE		BIOTITE	
CROCIDOLITE		MICA	
ANTHOPHYLLITE		PERLITE	
TREMOLITE		AGGREGATE/SAND	
ACTINOLITE		STYROFOAM	
NONASBESTOS FIBERS		OTHER COMPONENTS	
SYNTHETICS		ALUMINUM	
MINERAL WOOL		BITUMEN	< 1
FIBERGLASS		RESILIENT MATERIAL	
CELLULOSE	90	GLUE	
ANIMAL HAIR		BINDERS	10
ANTIGORITE			

COMMENTS : BITUMEN IS NOT ENOUGH TO BE ANALYZED.

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MICROANALYST A. Gendlin
 ARKADIY GENDLIN

QUALITY CONTROL BY : Svetlana Arkhipov
 SVETLANA ARKHIPOV

Analytical Environmental Services, Inc.
 3781 Presidential Parkway, Suite 111, Atlanta, GA 30340
 TEL: (770)457-8177 FAX: (770)457-8188

CLIENT NAME : WILLMER ENGINEERING, INC. DATE : 1/28/98

PROJECT NAME: ALDRICH HEALTH CENTER / F-214

SAMPLE ID : AH-18 AES LAB NO : 103116 AES JOB NO : B6752

SAMPLE LOCATION :

SAMPLE - LAYERED: 1) GRAY SEMI-HARD SILTY TO WOVEN WITH PAINT;
 DESCRIPTION 2) GRAY SOFT FIBROUS TO SILTY.

RESULT OF BULK SAMPLE ANALYSIS (BY VISUAL VOLUMETRIC PERCENTAGE)			
ASBESTOS FIBERS		NONFIBROUS COMPONENTS	
CHRYBOTILE		VERMICULITE	
AMOSITE		BIOTITE	
CROCIDOLITE		MICA	
ANTHOPHYLLITE		PERLITE	
TREMOLITE		AGGREGATE/SAND	
ACTINOLITE		STYROFOAM	
NONASBESTOS FIBERS		OTHER COMPONENTS	
SYNTHETICS		ALUMINUM	
MINERAL WOOL	55	BITUMEN	
FIBERGLASS		RESILIENT MATERIAL	
CELLULOSE	5	GLUE	
ANIMAL HAIR		BINDERS	40
ANTIGORITE			

COMMENTS : PAINT INCLUDED AS BINDER.

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MICROANALYST : A. Gendlin

QUALITY CONTROL BY : Svetlana Arkhipov

ARKADIY GENDLIN

SVETLANA ARKHIPOV

Analytical Environmental Services, Inc.
 3781 Presidential Parkway, Suite 111, Atlanta, GA 30340
 TEL: (770)457-8177 FAX: (770)457-8188

CLIENT NAME : WILLMER ENGINEERING, INC. DATE : 1/28/98

PROJECT NAME : ALDRICH HEALTH CENTER / F-214

SAMPLE ID : AH-19 AES LAB NO : 103117 AES JOB NO : B6752

SAMPLE LOCATION :

SAMPLE - LAYERED: 1) GRAY SEMI-HARD SILTY TO WOVEN WITH PAINT;
 DESCRIPTION 2) GRAY SOFT FIBROUS TO SILTY.

RESULT OF BULK SAMPLE ANALYSIS (BY VISUAL VOLUMETRIC PERCENTAGE)			
ASBESTOS FIBERS		NONFIBROUS COMPONENTS	
CHRYSOTILE		VERMICULITE	
AMOSITE		BIOTITE	
CROCIDOLITE		MICA	
ANTHOPHYLLITE		PERLITE	
TREMOLITE		AGGREGATE/SAND	
ACTINOLITE		STYROFOAM	
NONASBESTOS FIBERS		OTHER COMPONENTS	
SYNTHETICS		ALUMINUM	
MINERAL WOOL	50	BITUMEN	
FIBERGLASS		RESILIENT MATERIAL	
CELLULOSE	10	GLUE	
ANIMAL HAIR		BINDERS	40
ANTIGORITE			

COMMENTS : PAINT INCLUDED AS BINDER.

It is certified by the signatures below that this laboratory is accredited by the National Institute of Standards and Technology under NVLAP for the analysis of asbestos in building materials by polarized light microscopy. NVLAP Laboratory Code: 2033. Test report relates only to the items tested.

MICROANALYST :


 ARKADIY GENDLIN

QUALITY CONTROL BY :


 SVETLANA ARKHIPOV

Analytical Environmental Services, Inc.
 3781 Presidential Parkway, Suite 111, Atlanta, GA 30340
 TEL: (770)457-8177 FAX: (770)457-8188

CLIENT NAME : WILLMER ENGINEERING, INC. DATE : 1/28/98

PROJECT NAME: ALDRICH HEALTH CENTER / F-214

SAMPLE ID : AH-20 AES LAB NO : 103118 AES JOB NO : B6752

SAMPLE LOCATION :

SAMPLE - LAYERED: 1) GRAY SEMI-HARD SILTY TO WOVEN WITH PAINT;
 DESCRIPTION 2) GRAY SOFT FIBROUS TO SILTY.

RESULT OF BULK SAMPLE ANALYSIS (BY VISUAL VOLUMETRIC PERCENTAGE)			
ASBESTOS FIBERS		NONFIBROUS COMPONENTS	
CHRYSTILE		VERMICULITE	
AMOSITE		BIOTITE	
CROCIDOLITE		MICA	
ANTHOPHYLLITE		PERLITE	
TREMOLITE		AGGREGATE/SAND	
ACTINOLITE		STYROFOAM	
NONASBESTOS FIBERS		OTHER COMPONENTS	
SYNTHETICS		ALUMINUM	
MINERAL WOOL	50	BITUMEN	
FIBERGLASS		RESILIENT MATERIAL	
CELLULOSE	10	GLUE	
ANIMAL HAIR		BINDERS	40
ANTIGORITE			

COMMENTS : PAINT INCLUDED AS BINDER.

It is certified by the signatures below that this laboratory is accredited by the National Institute of Standards and Technology under NVLAP for the analysis of asbestos in building materials by polarized light microscopy. NVLAP Laboratory Code: 2033. Test report relates only to the items tested.

MICROANALYST : A. Gendlin

ARKADIY GENDLIN

QUALITY CONTROL BY : Svetlana Arkhipov

SVETLANA ARKHIPOV

Analytical Environmental Services, Inc.
 3781 Presidential Parkway, Suite 111, Atlanta, GA 30340
 TEL: (770)457-8177 FAX: (770)457-8188

CLIENT NAME : WILLMER ENGINEERING, INC. DATE : 1/28/98

PROJECT NAME: ALDRICH HEALTH CENTER / F-214

SAMPLE ID : AH-21 AES LAB NO : 103119 AES JOB NO : B6752

SAMPLE LOCATION :

SAMPLE - LAYERED: 1) GRAY SEMI-HARD SILTY TO WOVEN WITH PAINT;
 DESCRIPTION 2) GRAY SOFT FIBROUS TO SILTY.

RESULT OF BULK SAMPLE ANALYSIS (BY VISUAL VOLUMETRIC PERCENTAGE)			
ASBESTOS FIBERS		NONFIBROUS COMPONENTS	
CHRYBOTILE		VERMICULITE	
AMOSITE		BIOTITE	
CROCIDOLITE		MICA	
ANTHOPHYLLITE		PERLITE	
TREMOLITE		AGGREGATE/SAND	
ACTINOLITE		STYROFOAM	
NONASBESTOS FIBERS		OTHER COMPONENTS	
SYNTHETICS		ALUMINUM	
MINERAL WOOL	50	BITUMEN	
FIBERGLASS		RESILIENT MATERIAL	
CELLULOSE	10	GLUE	
ANIMAL HAIR		BINDERS	40
ANTIGORITE			

COMMENTS : PAINT INCLUDED AS BINDER.

It is certified by the signatures below that this laboratory is accredited by the National Institute of Standards and Technology under NVLAP for the analysis of asbestos in building materials by polarized light microscopy. NVLAP Laboratory Code: 2033. Test report relates only to the items tested.

MICROANALYST :
A. Gendlin
 ARKADIY GENDLIN

QUALITY CONTROL BY \$
S. Arkhipov
 SVETLANA ARKHIPOV

Analytical Environmental Services, Inc.
 3781 Presidential Parkway, Suite 111, Atlanta, GA 30340
 TEL: (770)457-8177 FAX: (770)457-8188

CLIENT NAME : WILLMER ENGINEERING, INC. DATE : 1/28/98

PROJECT NAME: ALDRICH HEALTH CENTER / F-214

SAMPLE ID : AH-22 AES LAB NO : 103120 AES JOB NO : B6752

SAMPLE LOCATION :

SAMPLE - LAYERED: 1) GRAY SEMI-HARD SILTY TO WOVEN WITH PAINT;
 DESCRIPTION 2) GRAY SOFT FIBROUS TO SILTY.

RESULT OF BULK SAMPLE ANALYSIS (BY VISUAL VOLUMETRIC PERCENTAGE)			
ASBESTOS FIBERS		NONFIBROUS COMPONENTS	
CHRYSTILE		VERMICULITE	
AMOSITE		BIOTITE	
CROCIDOLITE		MICA	
ANTHOPHYLLITE		PERLITE	
TREMOLITE		AGGREGATE/SAND	
ACTINOLITE		STYROFOAM	
NONASBESTOS FIBERS		OTHER COMPONENTS	
SYNTHETICS		ALUMINUM	
MINERAL WOOL	50	BITUMEN	
FIBERGLASS		RESILIENT MATERIAL	
CELLULOSE	10	GLUE	
ANIMAL HAIR		BINDERS	40
ANTIGORITE			

COMMENTS : PAINT INCLUDED AS BINDER.

It is certified by the signatures below that this laboratory is accredited by the National Institute of Standards and Technology under NVLAP for the analysis of asbestos in building materials by polarized light microscopy. NVLAP Laboratory Code: 2033. Test report relates only to the items tested.

MICROANALYST :
Arkadiy Gendlin
 ARKADIY GENDLIN

QUALITY CONTROL BY :
Svetlana Arkhipov
 SVETLANA ARKHIPOV

Analytical Environmental Services, Inc.
 3781 Presidential Parkway, Suite 111, Atlanta, GA 30340
 TEL: (770)457-8177 FAX: (770)457-8188

CLIENT NAME : WILLMER ENGINEERING, INC. DATE : 1/28/98

PROJECT NAME : ALDRICH HEALTH CENTER / F-214

SAMPLE ID : AH-23 AES LAB NO : 103121 AES JOB NO : B6752

SAMPLE LOCATION :

SAMPLE - LAYERED: 1) GRAY SEMI-HARD SILTY TO WOVEN WITH PAINT;
 DESCRIPTION 2) GRAY SOFT FIBROUS TO SILTY.

RESULT OF BULK SAMPLE ANALYSIS (BY VISUAL VOLUMETRIC PERCENTAGE)			
ASBESTOS FIBERS		NONFIBROUS COMPONENTS	
CHRYSTILE		VERMICULITE	
AMOSITE		BIOTITE	
CROCIDOLITE		MICA	
ANTHOPHYLLITE		PERLITE	
TREMOLITE		AGGREGATE/SAND	
ACTINOLITE		STYROFOAM	
NONASBESTOS FIBERS		OTHER COMPONENTS	
SYNTHETICS		ALUMINUM	
MINERAL WOOL	50	BITUMEN	
FIBERGLASS		RESILIENT MATERIAL	
CELLULOSE	10	GLUE	
ANIMAL HAIR		BINDERS	40
ANTIGORITE			

COMMENTS : PAINT INCLUDED AS BINDER.

It is certified by the signatures below that this laboratory is accredited by the National Institute of Standards and Technology under NVLAP for the analysis of asbestos in building materials by polarized light microscopy. NVLAP Laboratory Code: 2033. Test report relates only to the items tested.

MICROANALYST :

QUALITY CONTROL BY :

A. Gendlin
 ARKADIY GENDLIN

S. Arkhipov
 SVETLANA ARKHIPOV

Analytical Environmental Services, Inc.
 3781 Presidential Parkway, Suite 111, Atlanta, GA 30340
 TEL: (770)457-8177 FAX: (770)457-8188

CLIENT NAME : WILLMER ENGINEERING, INC. DATE : 1/28/98

PROJECT NAME: ALDRICH HEALTH CENTER / F-214

SAMPLE ID : AH-24 AES LAB NO : 103122 AES JOB NO : B6752

SAMPLE LOCATION :

SAMPLE - DARK BROWN SEMI-HARD MASTIC WITH FIBERS.
 DESCRIPTION

RESULT OF BULK SAMPLE ANALYSIS (BY VISUAL VOLUMETRIC PERCENTAGE)			
ASBESTOS FIBERS		NONFIBROUS COMPONENTS	
CHRYBOTILE		VERMICULITE	
AMOSITE		BIOTITE	
CROCIDOLITE		MICA	
ANTHOPHYLLITE		PERLITE	
TREMOLITE		AGGREGATE/SAND	
ACTINOLITE		STYROFOAM	
NONASBESTOS FIBERS		OTHER COMPONENTS	
SYNTHETICS		ALUMINUM	
MINERAL WOOL	1	BITUMEN	
FIBERGLASS		RESILIENT MATERIAL	
CELLULOSE	1	GLUE	90
ANIMAL HAIR		BINDERS	8
ANTIGORITE			

COMMENTS :

It is certified by the signatures below that this laboratory is accredited by the National Institute of Standards and Technology under NVLAP for the analysis of asbestos in building materials by polarized light microscopy. NVLAP Laboratory Code: 2033. Test report relates only to the items tested.

MICROANALYST : *A. Gendlin*

QUALITY CONTROL BY : *S. Arkhipov*

ARKADIY GENDLIN

SVETLANA ARKHIPOV

Analytical Environmental Services, Inc.
 3781 Presidential Parkway, Suite 111, Atlanta, GA 30340
 TEL: (770)457-8177 FAX: (770)457-8188

CLIENT NAME : WILLMER ENGINEERING, INC. DATE : 1/28/98

PROJECT NAME : ALDRICH HEALTH CENTER / F-214

SAMPLE ID : AH-25 AES LAB NO : 103123 AES JOB NO : B6752

SAMPLE LOCATION :

SAMPLE - LAYERED: 1) LIGHT GRAY SEMI-HARD SILTY TO PERLTIC WITH FIBERS;
 DESCRIPTION 2) DARK BROWN SEMI-HARD MASTIC WITH FIBERS;
 3) LIGHT BROWN SOFT FIBROUS.

RESULT OF BULK SAMPLE ANALYSIS (BY VISUAL VOLUMETRIC PERCENTAGE)

ASBESTOS FIBERS		NONFIBROUS COMPONENTS	
CHRYBOTILE		VERMICULITE	
AMOSITE		BIOTITE	
CROCIDOLITE		MICA	
ANTHOPHYLLITE		PERLITE	5
TREMOLITE		AGGREGATE/SAND	
ACTINOLITE		STYROFOAM	
NONASBESTOS FIBERS		OTHER COMPONENTS	
SYNTHETICS		ALUMINUM	
MINERAL WOOL		BITUMEN	
FIBERGLASS		RESILIENT MATERIAL	
CELLULOSE	10	GLUE	80
ANIMAL HAIR		BINDERS	5
ANTIGORITE			

COMMENTS :

It is certified by the signatures below that this laboratory is accredited by the National Institute of Standards and Technology under NVLAP for the analysis of asbestos in building materials by polarized light microscopy. NVLAP Laboratory Code: 2033. Test report relates only to the items tested.

MICROANALYST :

A. Gendlin

ARKADIY GENDLIN

QUALITY CONTROL BY :

SVETLANA ARKHIPOV

Analytical Environmental Services, Inc.
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CLIENT NAME : WILLMER ENGINEERING, INC. DATE : 1/28/98

PROJECT NAME: ALDRICH HEALTH CENTER / F-214

SAMPLE ID : AH-26 AES LAB NO : 103124 AES JOB NO : B6752

SAMPLE LOCATION :

SAMPLE - GRAY SEMI-HARD SILTY TO PERLTIC WITH FIBERS AND PAINT.
 DESCRIPTION

RESULT OF BULK SAMPLE ANALYSIS (BY VISUAL VOLUMETRIC PERCENTAGE)			
ASBESTOS FIBERS		NONFIBROUS COMPONENTS	
CHRYSOTILE		VERMICULITE	
AMOSITE		BIOTITE	
CROCIDOLITE		MICA	
ANTHOPHYLLITE		PERLITE	15
TREMOLITE		AGGREGATE/SAND	
ACTINOLITE		STYROFOAM	
NONASBESTOS FIBERS		OTHER COMPONENTS	
SYNTHETICS	1	ALUMINUM	
MINERAL WOOL		BITUMEN	
FIBERGLASS		RESILIENT MATERIAL	
CELLULOSE	1	GLUE	
ANIMAL HAIR		BINDERS	83
ANTIGORITE			

COMMENTS : PAINT INCLUDED AS BINDER.

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MICROANALYST :

 ARKADIY GENDLIN

QUALITY CONTROL BY :

 SVETLANA ARKHIPOV

Analytical Environmental Services, Inc.
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CLIENT NAME : WILLMER ENGINEERING, INC. DATE : 1/28/98

PROJECT NAME: ALDRICH HEALTH CENTER / F-214

SAMPLE ID : AH-27 AES LAB NO : 103125 AES JOB NO : B6752

SAMPLE LOCATION :

SAMPLE - LIGHT BROWN F SOFT FIBROUS WITH PAINT.
 DESCRIPTION

RESULT OF BULK SAMPLE ANALYSIS (BY VISUAL VOLUMETRIC PERCENTAGE)			
ASBESTOS FIBERS		NONFIBROUS COMPONENTS	
CHRYBOTILE		VERMICULITE	
AMOSITE		BIOTITE	
CROCIDOLITE		MICA	
ANTHOPHYLLITE		PERLITE	
TREMOLITE		AGGREGATE/SAND	
ACTINOLITE		STYROFOAM	
NONASBESTOS FIBERS		OTHER COMPONENTS	
SYNTHETICS		ALUMINUM	
MINERAL WOOL		BITUMEN	
FIBERGLASS		RESILIENT MATERIAL	
CELLULOSE	90	GLUE	
ANIMAL HAIR		BINDERS	10
ANTIGORITE			

COMMENTS : PAINT INCLUDED AS BINDER.

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MICROANALYST : *Arkadiy Gendlin*

QUALITY CONTROL BY : *Svetlana Arkhipov*

ARKADIIY GENDLIN

SVETLANA ARKHIPOV

Analytical Environmental Services, Inc.
 3781 Presidential Parkway, Suite 111, Atlanta, GA 30340
 TEL: (770)457-8177 FAX: (770)457-8188

CLIENT NAME : WILLMER ENGINEERING, INC. DATE : 1/28/98

PROJECT NAME : ALDRICH HEALTH CENTER / F-214

SAMPLE ID : AH-28 AES LAB NO : 103126 AES JOB NO : B6752

SAMPLE LOCATION :

SAMPLE - GRAY SEMI-HARD SILTY TO PERLTIC WITH FIBERS AND PAINT.
 DESCRIPTION

RESULT OF BULK SAMPLE ANALYSIS (BY VISUAL VOLUMETRIC PERCENTAGE)			
ASBESTOS FIBERS		NONFIBROUS COMPONENTS	
CHRYBOTILE		VERMICULITE	
AMOSITE		BIOTITE	
CROCIDOLITE		MICA	
ANTHOPHYLLITE		PERLITE	15
TREMOLITE		AGGREGATE/SAND	
ACTINOLITE		STYROFOAM	
NONASBESTOS FIBERS		OTHER COMPONENTS	
SYNTHETICS	1	ALUMINUM	
MINERAL WOOL		BITUMEN	
FIBERGLASS		RESILIENT MATERIAL	
CELLULOSE	1	GLUE	
ANIMAL HAIR		BINDERS	83
ANTIGORITE			

COMMENTS : PAINT INCLUDED AS BINDER.

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MICROANALYST : *A. Gendlin*
 ARKADIY GENDLIN

QUALITY CONTROL BY : *Svetlana Arkhipov*
 SVETLANA ARKHIPOV