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June 16, 2003

Mr. John Kelly Orlando Public Library System 101 East Central Boulevard Orlando, Florida 32801

Subject:

Report of Survey for Asbestos-Containing Materials

Orlando Public Library Orlando, Florida

MACTEC Project 6380-03-0039.06

Dear Mr. Kelly:

MACTEC Engineering and Consulting of Georgia, Inc. f/k/a Law Engineering and Environmental Services, Inc. (MACTEC) has completed the authorized survey, sampling and evaluation for asbestos-containing materials within the Orlando Public Library located at 101 East Central Boulevard in Orlando, Florida. The field work was performed between February and May of 2003 by Mr. Robert N. Frasard and Robert Newton, AHERA accredited inspectors from MACTEC in accordance with our Proposal PA-40299-2-0000/1741 Revision 1, dated February 17, 2003 and PROP03ORLA.0353, dated May 7, 2003.

The attached report gives a brief background of the project, the procedures used in the field and in laboratory analysis. A summary of the laboratory analyses, drawings, photographs, and cost estimate are included as an appendix.

This report has been prepared on behalf of and exclusively for the use by The Orlando Public Library. This report and the findings contained herein shall not, in whole or in part, be disseminated or conveyed to any other party without MACTEC's prior written consent.

MACTEC appreciates the opportunity to have been of assistance to you on this project and is looking forward to working with you as your consultant in the future. If you have any questions concerning this report or if we can be of further service, please contact us.

Sincerely,

MACTEC ENGINEERING AND CONSULTING, INC.

F/K/A LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC.

Shawn E. Brigham, CIE

Project Manager

FLAC# ZA00000116

Attachments: Asbestos Laboratory Reports

Drawings

Brian J. DuChene, P.E. FL Asbestos Consultant License No. EA 0000075

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#### 1.0 PROJECT INFORMATION

MACTEC performed an asbestos survey of the Orlando Public Library facility located at 101 East Central Boulevard to assist the Orange County Library System in compliance with the OSHA asbestos regulation requirements for buildings constructed prior to 1980. The original structure constructed in 1966 consists of 60,000 square feet of floor space. The original structure consisted of a basement, first and second floors, and third floor mechanical room and lounge. In 1985, an addition was constructed to the west that added approximately 170,000 square feet. The addition consisted of an expansion of the basement, first, second and third floors, and the addition of a fourth and fifth floor in the new section of the building.

The foundation and structure are constructed of concrete. The interior finishes consist of various lay-in ceiling panels, concrete and plaster walls, carpet and vinyl floor tile. The HVAC systems consist of supply and return ducts from roof top air handlers. Exterior insulated sheet metal ductwork distributes condition air to the occupied spaces.

The field survey of the original portion of the building was performed on February 28 and March 2, 2003. A preliminary report of the findings of that survey was issued on April 30, 2003. Subsequently, MACTEC was authorized to perform a survey of the remainder of the building. The survey of the 1985 addition was performed on May 14, 15, and 16, 2003. This report incorporates the results of the initial survey and the results of the survey of the 1985 addition into one comprehensive report for the facility.

#### 2.0 SURVEY PROCEDURES

#### 2.1 General

The survey was performed by observing accessible materials throughout the interior of original 1966 building and the 1985 addition. In order to preserve the waterproofing integrity, and warranty of the roof systems, no sampling of the roofs was conducted. The suspect materials associated with the roofs were assumed to contain asbestos. The visual survey determines only general locations of suspect materials but does not determine exact boundaries.

No attempt was made to disassemble equipment or demolish structural elements and finishes as this is beyond the scope of our authorized services. Visual observations were made at convenient locations for the presence of resilient flooring and mastic below existing floor finishes. Due to these limitations, wall voids, building cavities and mechanical equipment, and other areas may contain unreported asbestos-containing materials.

The primary purpose of the survey was to locate, identify and assess friable (or potentially friable) building materials, which may contain asbestos materials, evaluate the potential risk to occupants, and make recommendations for control measures, as necessary Friable materials are those that can be pulverized or reduced to powder by hand pressure.

#### 2.2 Bulk Sampling

The bulk sampling procedures utilized for the collection of suspect materials first required the establishment of a homogeneous sampling area. A homogeneous sampling area is defined as an area of the same type, color, and texture that was applied during the same general time period.

The individual sampling areas were then examined and representative samples of the suspect materials were randomly taken. The bulk samples were collected in general accordance with the AHERA protocol (40 CFR 763.86) as referenced in the OSHA asbestos regulations (29 CFR 1926.1101(k) and 29 CFR 1910.1001 (j)). Bulk samples collected during the survey were delivered using Chain of Custody procedures to EMSL Analytical in Westmont, New Jersey, an AIHA and NVLAP accredited laboratory (No. 101048-0). The samples were analyzed by Polarized Light Microscopy (PLM) coupled with dispersion staining in accordance with EPA Method 600/R-93/116.

Polarized Light Microscopy (PLM) is an analytical method for asbestos identification, which depends on the unique optical properties of mineral forms in the samples, and specifically identifies the various asbestos types. This is the mandated method of analysis by EPA and OSHA for asbestos identification in bulk samples.

#### 2.3 Homogeneous Sampling Areas

The following suspect materials (materials thought to possibly contain asbestos) were sampled during the survey.

#### Original Building (1966)

- 1. HVAC Duct Seam Mastic (Gray)
- 2. HVAC Duct Seam Mastic (Brown)
- 3. HVAC Duct Seam Mastic (Black)
- 4. Chilled Water Fitting Insulation
- 5. Chilled Water Line Insulation
- 6. Vibration Damper
- 7. Packing Material
- 8. Fiberglass Duct Insulation
- 9. Plaster
- 10. Various Lay-in Ceiling Panels
- 11. Carpet Adhesive
- 12. Cove Base Adhesive
- 13. Duct Seam Mastic (Red)
- 14. Various Vinyl Floor Tiles/Mastic
- 15. Cementitious Mudded Pipe Elbow Insulation
- 16. Cork Sound Insulation
- 17. Window Caulk

#### <u>Addition (1985)</u>

- 1. Spray Applied Fireproofing
- 2. Chilled Water Pipe and Fitting Insulation
- 3. Various Ceiling Tiles
- 4. Ceiling Plaster
- 5. Chilled Water Pipe Insulation Wrap
- 6. Various Vinyl Floor Tiles and Mastics
- 7. HVAC Duct Seam Mastic (White)
- 8. HVAC Duct Seam Mastic (Dark Brown)
- 9. HVAC Duct Seam Mastic (Red)
- 10. HVAC Duct Seam Mastic (Light Grey)
- 11. HVAC Duct Seam Mastic (Light Brown)
- 12. Wall Plaster (Skimcoat) over Wallboard
- 13. Pink Sink Insulation
- 14. Gypsum Wallboard and Joint Compound
- 15. Soffit Stucco
- 16. Floor Leveling Compound

#### 3.0 BULK SAMPLE RESULTS

Based upon our visual observations, bulk sampling of suspect materials and subsequent microscopic analysis, we have determined that regulated amounts of asbestos minerals were detected within the following samples of suspect materials:

Sample No(s).	Material Sampled	Sample Location	Lab Results
	Original Bui	lding (1966)	
OPLA-2A	HVAC Duct Seam Mastic-Brown	Roof Air Handler Room	10% Chrysotile
OPLA-5A	HVAC Duct Seam Mastic - Black	NE Roof Air Handler Room	15% Chrysotile
OPLA- 6A/WHITE LYR	Mud Coated Fittings	Roof Air Handler Room – CW Supply Room	50% Chrysotile
OPLA-11A	Packing Material	Roof Air Handler Room – AHU B	40% Chrysotile
OPLA- 12A/TOP	HVAC Duct Coating	First Floor Restrooms – OLD HVAC Ducts	8% Chrysotile
OPLA-26A	Mud Fitting Insulation	Basement-Custodian Room	2% Chrysotile
OPLA-30A/T	12"x12" Floor Tile – Beige	Basement-Storage Room	10% Chrysotile
OPLA-31A/M	Black Mastic Associated with 12"x12" Floor Tile-Beige/Brown	Basement-North Area	10% Chrysotile
	Addition	(1985)	
OPL-9A	HVAC White Duct Mastic Coating	Basement AHU-1 Room Below Stairs	5% Chrysotile
OPL-17A	Black Mastic Associated with 12" x 12" Floor Tile - White	First Floor – West End	5% Chrysotile
OPL-18A	Pink Sink Undercoating	First Floor - West End	3% Chrysotile

These materials are discussed in the following paragraphs:

#### 3.1 HVAC Duct Mastic (Brown)

The brown duct mastic (Sample OPLA-2A) was found to contain 10% Chrysotile asbestos. This mastic was found in the roof air handler room. This material is defined as a category I nonfriable asbestoscontaining material and was observed to be in good condition.

#### 3.2 HVAC Duct Mastic (Black)

The black duct mastic (Sample OPLA-5A) was found to contain 15% Chrysotile asbestos. This mastic was found inside the roof air handler duct chases and throughout the first and second floors. This material is defined as Category I nonfriable asbestos-containing material and was observed to be in good condition.

#### 3.3 Mud Coating on Foam Glass Insulation (Fittings)

The mud (Sample OPLA-6A) was found to contain 50% Chrysotile asbestos. The insulation was found on the chilled water supply/return fittings in the roof air handler room. This material is defined as a friable asbestos-containing material and was observed to be in good condition.

#### 3.4 Packing Material

The packing material (Sample OPLA-11A) was found to contain 40% Chrysotile asbestos. The material was found inside the roof air handler room (AHU B and AHU A). This material is defined as a friable asbestos-containing material and was observed to be in fair condition.

## 3.5 Felt Associated with Fiberglass Insulation with foil Jacket

The felt (Sample OPLA-12A) was found to contain 8% Chrysotile asbestos. This insulation was found throughout the HVAC duct system inside the Basement, first, and second floors. This material is defined as a Category I nonfriable asbestos-containing material and was observed to be in good condition.

#### 3.6 Mud Fitting Insulation

The mud fitting insulation (Sample OPLA-26A) was found to contain 2% Chrysotile asbestos. This insulation was found inside the Basement custodial room. This material is defined as a friable asbestos- containing material and was observed to be damaged.

#### 3.7 12"x12" Floor Tile (Beige)

The floor tile (Sample OPLA-30A) was found to contain 10% Chrysotile asbestos. The floor tile was found inside the Basement storage ("Cork" Room) room. This material is defined as a Category I non-friable asbestos-containing material and was found to be in good condition.

# 3.8 Black Mastic Associated With 12"x12" Beige/Brown Floor Tile

The mastic (Sample OPLA-31A) was found to contain 10% Chrysotile asbestos. The mastic is underneath the floor tile inside the Technical Services area on the east end of the Basement. No asbestos was detected in the floor tile portion of this sample. This material is defined as a Category I non-friable asbestos-containing material and was observed to be in good condition.

#### 3.9 Roofing Materials

The existing roofing materials were assumed to contain asbestos. These material are defined as a Category I non-friable asbestos-containing material and were observed to be in good condition.

# 3.10 Black Mastic Associated With 12"x 12" White Floor Tile

The mastic (Sample OPL-17A and 6A) was found to contain 5-10% Chrysotile asbestos. The mastic is underneath the floor tile in a small area that formerly housed a room in the northwest corner of the first floor behind the elevators, corridors north of the worker/freight elevators on the basement, first and fifth floors, first floor mail room, third floor breakroom, the fifth floor northwest and southwest storage rooms. No asbestos was detected in the floor tile portion of this sample. This material is defined as a Category I non-friable asbestos-containing material and was observed to be in good condition.

#### 3.11 Pink Sink Undercoating

The pink sink undercoating (Sample OPL-17A) was found to contain 3% Chrysotile asbestos. The mastic is on the underside of the sink in a former break area in the northwest corner of the first floor behind the

elevators, and in the 2<sup>nd</sup>, 3<sup>rd</sup>, 5<sup>th</sup> floors northwest Common Areas. This material is defined as a Category I non-friable asbestos-containing material and was observed to be in good condition.

#### 3.12 White HVAC Duct Mastic

The white duct mastic coating (Sample OPLA-9A) was found to contain 5% Chrysotile asbestos. This mastic coating was found on HVAC duct located in the basement air handling room 1, below the stairs. This material is defined as Category I non-friable asbestos-containing material and was observed to be in good condition.

#### 4.0 RECOMMENDATIONS

#### 4.1 General Recommendations

There are four recognized alternative courses of action to control asbestos-containing materials in buildings: (1) asbestos removal and disposal; (2) enclosure; (3) encapsulation; and, (4) special operations, maintenance and re-observation programs. The selection of a particular alternative should be based upon intended usage of the building, actual exposure rates and cost.

Regarding Item No. 1, the EPA has recently revised its Federal regulations regarding asbestos. The National Emissions Standard for Hazardous Air Pollutants (NESHAP) Final Rule Revision (EPA 40 CFR Part 61) dated November 20, 1990, include several modifications and additions. The modification which greatly affects abatement alternatives is the re-categorization of asbestos-containing materials (ACM). These are categorized as follows:

- Friable means any material that can be reduced to powder by hand pressure when dry.
- Category I Non-Friable ACM means packing, gaskets, resilient floor coverings and roofing products that contain more than one-percent asbestos.
- Category II Non-Friable ACM means any material, excluding Category I Non-Friable ACM that contains more than one- percent asbestos, and is not friable.
- Regulated ACM (RACM) includes all friable ACM; Category I Non-Friable ACM that will
  be or has been subject to sanding, grinding, cutting or abrading; Category II Non-Friable
  ACM that has become friable; and Category II Non-Friable ACM that has a high probability
  of becoming, or has become crumbled, pulverized, or reduced to a powder by forces expected
  to act on the material in the course of demolition or renovation operations.

The revised definition for **Friable ACM** includes a requirement for verification, by point counting, if it is determined by PLM analysis that asbestos is present in amounts less than 10 percent.

#### 4.2 Specific Recommendations

#### 4.2.1 Chilled and Hot Water Fittings and Packing Material

These materials were found to contain greater than one-percent asbestos. The EPA NESHAP (40 CFR Part 61, Subpart M) further classifies this material as friable ACM. Removal is required by NESHAP prior to any activities that would dislodge, break up, or similarly disturb these materials during renovation or demolition of structures with this material as a Class I asbestos work which requires specialized training and engineering controls.

# 4.2.2 Brown, Black, and White Duct Mastic, Black Felt Mastic, Floor Tile and Mastic, and Sink Undercoating

The EPA NESHAP (40 CFR Part 61, Subpart M) classifies these materials as Category I non-friable ACM. Removal is required by NESHAP prior to any activities that subject this material to cuttings, sanding, grinding, abrading, or otherwise rendering them friable during renovation or demolition activities. The OSHA Construction Standard (29 CFR 1926.1101) classifies disturbance, removal, or demolition of structures with this material as Class II asbestos work which requires specialized training and engineering controls.

#### 4.2.3 Assumed Roofing Materials

The EPA NESHAP (40 CFR Part 61, Subpart M) classifies these materials as Category I non-friable ACM. Removal is required by NESHAP prior to any activities that subject this material to cuttings, sanding, grinding, abrading, or otherwise rendering them friable during renovation or demolition activities. The OSHA Construction Standard (29 CFR 1926.1101) classifies disturbance, removal, or demolition of structures with this material as Class II asbestos work which requires specialized training and engineering controls. The assumed roofing materials should be tested to confirm the presence or absence of asbestos prior to disturbance during re-roofing or repair activities.

#### 4.3 State of Florida Asbestos Regulations

Chapter 469 of the Florida Statutes requires that a state licensed asbestos abatement contractor perform the removal, repair, or encapsulation to the types of ACM identified in this report

#### 4.4 Interim Measures

Regardless of the type of asbestos abatement action chosen, and the time frame involved, we strongly recommend that during the interim time period prior to abatement action, control measures be established for the employees and occupants working in the building to minimize their exposure to asbestos. The identified asbestos-containing materials should be managed in place, in good condition under a site specific, written asbestos Operations and Maintenance (O&M) program. This program should include, at a minimum, training in the proper safety precautions and cleaning methods to be used by personnel when work must be performed in and around asbestos-containing materials. Also, periodic reassessment of the condition of the asbestos-containing materials should be undertaken and precautions and procedures should be thoroughly documented.

#### 4.5 Legal and Medical Considerations

Due to the health hazards and legal ramifications involved in asbestos exposure in public buildings, an interdisciplinary approach between the engineering, medical and legal communities should be involved when determining an asbestos control program. There is presently a tremendous amount of litigation in the courts concerning present and past asbestos exposure in public and private facilities, as well as in the workplace environment. One basis for much of the litigation stems from adequate notification or lack thereof, by the building owner to building occupants/employees following the identification of asbestos in a building. As a minimum, the notification requirements of 29 CFR 1926.1101 and 29 CFR 1910.1001 should be implemented.

We recommend that you involve appropriate legal counsel in your asbestos control program to address these very important issues.

ASBESTOS LABORATORY REPORTS

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Customer ID:

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Customer PO:

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Analysis Date:

EMSL Order:

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## Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized **Light Microscopy**

	# ≠				Non-A	sbestos	* *	Asbe	stos
Sample	Location	Appearance	Treatment	% F	ibrous	% No	n-Fibrous	% Ту	pe ·
OPL-1A 040303133-0001	ROOF AIR HANDLER ROOM	Gray Non-Fibrous Heterogeneous	Dissolved	83		100%	Non-fibrous (other)	None I	Detected
OPL-1B 040303133-0002	1ST FLOOR - SW AREA	Gray Non-Fibrous Heterogeneous	Dissolved			100%	Non-fibrous (other)	None D	etected
OPL-2A ~40303133-0003	ROOF AIR HANDLER ROOM	Brown/Black/Silve r Fibrous	Dissolved	40%	Cellulose	50%	Non-fibrous (other)	10%	Chrysotile
OPL-3A 040303133-0004	AIR HANDLER B - ROOF AIR HANDLER ROOM	Heterogeneous Green Fibrous Heterogeneous	Dissolved	15%	Cellulose	85%	Non-fibrous (other)	None D	etected
OPL-4A 040303133-0005	ROOF AIR HANDLER ROOM	White Non-Fibrous Homogeneous	Dissolved			100%	Non-fibrous (other)	None D	etected
OPL-4B 040303133-0006	1ST FLOOR - NW BOOK STORAGE	White/Tan/Silver Fibrous Heterogeneous	Dissolved	20%	Glass	80%	Non-fibrous (other)	None D	etected
OPL-4C 040303133-0007	1ST FLOOR - EAST AREA	White Non-Fibrous Homogeneous	Dissolved			100%	Non-fibrous (other)	None D	etected
OPL-4D 040303133-0008	2ND FLOOR - NORTH WEST ROOM	White/Yellow/Silve r Fibrous Heterogeneous	Dissolved	30%	Glass	70%	Non-fibrous (other)	None De	etected
OPL-5A 040303133-0009	NE ROOF AIR HANDLER ROOM	Black/Silver/Tan Fibrous Heterogeneous	Dissolved	10%	Glass	75%	Non-fibrous (other)	15%	Chrysotile

Analyst(s)

Linda Price (77)

Stephen Siegel, CIH or other approved signatory

has been known to miss asbestos in a small percentage of samples which contain asbestos. Negative PLM results cannot be guaranteed. Samples reported as <1% or none cled should be tested with TEM. The above test report relates only to the items tested. This report may not be reproduced, except in full, without written approval by EMSL trips. The above test must not be used by the client to claim product endorsement by NVLAP nor any agency of the United States Government. med by EMSL Westmont (NVLAP #101048-0), NY ELAP 10872

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## Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized **Light Microscopy**

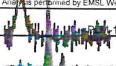
				Non-As	sbestos	Asbestos
Sample	Location	Appearance	Treatment	% Fibrous	% Non-Fibrous	% Type
OPL-5B 040303133-0010	1ST FLOOR - NORTHWEST RESTROOMS					Not Analyzed
OPL-5C 040303133-0011	2ND FLOOR DUCTS - NORTHWEST AREA					Not Analyzed
OPL-6A/WHITE LYR 303133-0012	ROOF AIR HANDLER ROOM - CW SUPPLY ROOM	White/Gray Fibrous Heterogeneous	Teased	20% Cellulose	30% Non-fibrous (other)	50% Chrysotile
OPL-6A/BLK LYR 040303133-0054	ROOF AIR HANDLER ROOM - CW SUPPLY ROOM	Black Non-Fibrous Homogeneous	Teased	2	100% Non-fibrous (other)	None Detected
OPL-6B 040303133-0013	ROOF AIR HANDLER ROOM - CW RETURN LINE					Not Analyzed
OPL-7A/TOP 040303133-0014	ROOF AIR HANDLER ROOM - CW SUPPLY LINE	Gray/Black Fibrous Heterogeneous	Dissolved .	80% Cellulose	20% Non-fibrous (other)	None Detected
OPL-7A/BOTTOM 040303133-0055	ROOF AIR HANDLER ROOM - CW SUPPLY LINE	Tan Fibrous Heterogeneous	Teased	98% Min. Wool	2% Non-fibrous (other)	None Detected

Analyst(s)

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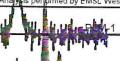
			-	- I		
				Non-As	<u>bestos</u>	Asbestos
Sample	Location	Appearance	Treatment	% Fibrous	% Non-Fibrous	% Type
OPL-7B/TOP 040303133-0015	ROOF AIR HANDLER ROOM - CW RETURN LINE	Gray/Black Fibrous Heterogeneous	Dissolved	80% Cellulose	20% Non-fibrous (other)	None Detected
ÓPL-7B/BOTTOM 040303133-0056	ROOF AIR HANDLER ROOM - CW RETURN LINE	Tan Fibrous Heterogeneous	Teased	90% Min. Wool	10% Non-fibrous (other)	None Detected
PL-8A/TOP ,303133-0016	ROOF AIR HANDLER ROOM - AIR HANDLER A	Gray/Silver/Tan Fibrous Heterogeneous	Teased Dissolved	30% Cellulose	70% Non-fibrous (other)	None Detected
OPL-8A/BOTTOM 040303133-0057	ROOF AIR HANDLER ROOM - AIR HANDLER A	Yellow Fibrous Heterogeneous	Teased	95% Min. Wool	5% Non-fibrous (other)	None Detected
OPL-8B/TOP 040303133-0017	ROOF AIR HANDLER ROOM - AIR HANDLER B	Tan/Silver Fibrous Heterogeneous	Teased Dissolved	50% Cellulose	50% Non-fibrous (other)	None Detected
OPL-8B/BOTTOM 040303133-0058	ROOF AIR HANDLER ROOM - AIR HANDLER B	Yellow Fibrous Homogeneous	Teased	100% . Min. Wool	*	None Detected
OPL-9A/TOP 040303133-0018	ROOF AIR HANDLER ROOM - DRAIN LINE	Gray/White Fibrous Heterogeneous	Dissolved	15% Synthetic	85% Non-fibrous (other)	None Detected

Analyst(s)

Linda Price (77)

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					Non-As	sbesto	<u>s</u>	Asbe	estos
Sample	Location	Appearance	Treatment	% F	ibrous	%	Non-Fibrous	% Ту	pe
OPL-9A/BOTTOM 040303133-0059	ROOF AIR HANDLER ROOM - DRAIN LINE	Yellow Fibrous Homogeneous	Teased .	95%	Min. Wool		5% Non-fibrous (other)	None I	Detected
OPL-10A 040303133-0019	ROOF AIR HANDLER ROOM - AIR HANDLER B	Black/Gray Fibrous Heterogeneous	Dissolved	30%	Glass		70% Non-fibrous (other)	None D	Detected
QPL-11A 303133-0020	ROOF AIR HANDLER ROOM - AHU B	White Fibrous Heterogeneous	Teased	50%	Synthetic		10% Non-fibrous (other)	40%	Chrysotile
OPL-12A/TOP 040303133-0021	1ST FLOOR RESTROOMS - OLD HVAC DUCTS	White/Black/Silver Fibrous Heterogeneous	Dissolved	5%	Glass		87% Non-fibrous (other)	8%	Chrysotile
OPL-12A/BOTTOM 040303133-0060	1ST FLOOR RESTROOMS - OLD HVAC DUCTS	Yellow Fibrous Homogeneous	Teased	100%	Min. Wool	310-33		None D	etected
OPL-12B/TOP 040303133-0022	1ST FLOOR RESTROOMS - OLD HVAC DUCTS	14						Not An	alyzed
OPL-12B/BOTTOM 040303133-0061	1ST FLOOR RESTROOMS - OLD HVAC DUCTS	Yellow Fibrous Homogeneous	Teased	100%	Min. Wool			None De	etected

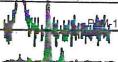
Analyst(s)

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Stephen Siegel

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Customer PO:

EMSL Order:

040303133

LAWE52H

03/04/03 10:29 AM

EMSL Project ID:

Analysis Date: 3/8/03

## Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized **Light Microscopy**

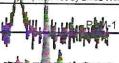
	Non-Asbestos					Asbestos		
Sample	Location	Appearance	Treatment	% F	ibrous	% No	n-Fibrous	% Type
OPL-12C/TOP 040303133-0023	BASEMENT CUSTODIAN ROOM						v.	Not Analyzed
OPL-12C/BOTTOM 040303133-0062	BASEMENT CUSTODIAN ROOM	Yellow Fibrous Homogeneous	Teased	100%	Min. Wool			None Detected
OPL-13A/SKIM 040303133-0024	3RD FLOOR ROOF - KITCHEN AREA WALL	White Non-Fibrous Heterogeneous	Crushed			100%	Non-fibrous (other)	None Detected
UPL-13A/ROUGH 040303133-0063	3RD FLOOR ROOF - KITCHEN AREA WALL	Gray Non-Fibrous Heterogeneous	Crushed	1%	Hair	99%	Non-fibrous (other)	None Detected
OPL-13B/SKIM 040303133-0025	2ND FLOOR - NORTH STORAGE AREA	White Non-Fibrous Heterogeneous	Crushed			100%	Non-fibrous (other)	None Detected
OPL-13B/ROUGH 040303133-0064	2ND FLOOR - NORTH STORAGE AREA	Gray Non-Fibrous Heterogeneous	Crushed	<1%	Hair	100%	Non-fibrous (other)	None Detected
OPL-13C/SKIM 040303133-0026	BSMT FLOOR CENTER - HALL WALL	White Non-Fibrous Heterogeneous	Crushed		i i	100%	Non-fibrous (other)	None Detected
	BSMT FLOOR CENTER - HALL WALL	Gray Non-Fibrous Heterogeneous	Crushed	1%	Hair	99%	Non-fibrous (other)	None Detected
	2ND FLOOR - NORTH AREA	Tan/White Fibrous Heterogeneous	Teased	50% 30%	Cellulose Min. Wool	20%	Non-fibrous (other)	None Detected

Analyst(s)

Linda Price (77)

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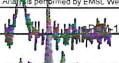
	90 80			Non-Asbestos				<u>Asbestos</u>
Sample	Location	Appearance	Treatment	% Fi	brous	% Noi	n-Fibrous	% Type
OPL-15A 040303133-0028	2ND FLOOR - NORTH STORAGE AREA	Tan/Brown Fibrous Heterogeneous	Dissolved	2%	Synthetic	98%	Non-fibrous (other)	None Detected
OPL-16A/C.B. 040303133-0029	2ND FLOOR - NORTH STORAGE AREA	Black Non-Fibrous Homogeneous	Dissolved			100%	Non-fibrous (other)	None Detected
OPL-16A/M 040303133-0066	2ND FLOOR - NORTH STORAGE AREA	White/Blue Non-Fibrous Heterogeneous	Dissolved			100%	Non-fibrous (other)	None Detected
'L-17A 040303133-0030	2ND FLOOR - STAFF LOUNGE	Red Fibrous Homogeneous	Dissolved	10%	Wollastonite	90%	Non-fibrous (other)	None Detected
OPL-18A 040303133-0031	2ND FLOOR - STAFF LOUNGE	Tan/White Fibrous Heterogeneous	Teased	50% 40%	Cellulose Min. Wool	10%	Non-fibrous (other)	None Detected
OPL-19A/T 040303133-0032	2ND FLOOR - STAFF LOUNGE	Beige Non-Fibrous Homogeneous	Dissolved			100%	Non-fibrous (other)	None Detected
OPL-19A/M 040303133-0067	2ND FLOOR - STAFF LOUNGE	Gold Fibrous Heterogeneous	Dissolved	10%	Cellulose	90%	Non-fibrous (other)	None Detected
OPL-20A 040303133-0033	2ND FLOOR - STAFF LOUNGE KITCHEN	Tan/White/Silver Fibrous Heterogeneous	Dissolved	40% 10%	Cellulose Min, Wool	50%	Non-fibrous (other)	None Detected
OPL-21A 040303133-0034	1ST FLOOR - NW AREA	White/Tan Fibrous Heterogeneous	Teased	50%	Cellulose	50%	Non-fibrous (other)	None Detected

Analyst(s)

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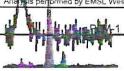
					Non-Asbe	stos	<u>Asbestos</u>
Sample	Location	Appearance	Treatment	% Fibrou	s	% Non-Fibrous	% Type
OPL-21B 040303133-0035	1ST FLOOR - SE AREA	White/Tan Fibrous Heterogeneous	Teased	30% Cel	lulose	70% Non-fibrous (other)	None Detected
OPL-21C 040303133-0036	1ST FLOOR - SW AREA	White/Tan Fibrous Heterogeneous	Teased	30% Cel	lulose	70% Non-fibrous (other)	None Detected
OPL-22A 040303133-0037	NW AREA	Tan/White Fibrous Heterogeneous	Teased		lulose . Wool	20% Non-fibrous (other)	None Detected
L-23A 040303133-0038	1ST FLOOR - BOOK STORAGE	Tan/White Fibrous Heterogeneous	Teased	ortorialis ismorta	lulose . Wool	20% Non-fibrous (other)	None Detected
OPL-24A/T 040303133-0039	1ST FLOOR - NE COMMON AREA	Tan Non-Fibrous Heterogeneous	Dissolved			100% Non-fibrous (other)	None Detected
OPL-24A/M 040303133-0068	1ST FLOOR - NE COMMON AREA	Tan/White Fibrous Heterogeneous	Dissolved	20% Syn	thetic	80% Non-fibrous (other)	None Detected
OPL-25A/T 040303133-0040	1ST FLOOR - NE COMMON AREA	Green Fibrous Homogeneous	Dissolved	10% Cell	lulose	90% Non-fibrous (other)	None Detected
OPL-25A/M 040303133-0069	1ST FLOOR - NE COMMON AREA	Tan Fibrous Heterogeneous	Dissolved	30% Syn	thetic	70% Non-fibrous (other)	None Detected
OPL-26A 040303133-0041	BSMT - CUSTODIAN ROOM	Gray Fibrous Heterogeneous	Teased	40% Min.	. Wool	58% Non-fibrous (other)	2% Chrysotile

Analyst(s)

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					Non-As	sbestos		Asbestos
Sample	Location	Appearance	Treatment	% F	ibrous	% Nor	n-Fibrous	% Type
OPL-26B 040303133-0042	BSMT - CUSTODIAN ROOM						a .	Not Analyzed
OPL-27A 040303133-0043	BSMT - CUSTODIAN ROOM	Tan/Silver Fibrous Heterogeneous	Dissolved	50%	Glass	50%	Non-fibrous (other)	None Detected
OPL-28A/TOP 040303133-0044	BSMT - CUSTODIAN ROOM	White/Silver/Black Fibrous Heterogeneous	Dissolved Teased	20%	Glass	80%	Non-fibrous (other)	None Detected
L-28A/BOTTOM 040303133-0070	BSMT - CUSTODIAN ROOM	Yellow Fibrous Homogeneous	Teased	100%	Min. Wool			None Detected
OPL-29A/CORK 040303133-0045	BSMT - STORAGE NW	Brown Non-Fibrous Homogeneous	Teased	367		100%	Non-fibrous (other)	None Detected
OPL-29A/GLUE 040303133-0071	BSMT - STORAGE NW	Brown Fibrous Homogeneous	Dissolved	5%	Cellulose	95%	Non-fibrous (other)	None Detected
OPL-30A/T 040303133-0046	BSMT - STORAGE NW	Tan Fibrous Homogeneous	Dissolved			90%	Non-fibrous (other)	10% Chrysotile
OPL-30A/M 040303133-0072	BSMT - STÓRAGE NW	Gold Fibrous Homogeneous	Dissolved	5%	Cellulose	95%	Non-fibrous (other)	None Detected
OPL-31A/T 040303133-0047	BSMT - NORTH AREA	Gray Non-Fibrous Homogeneous	Dissolved			100%	Non-fibrous (other)	None Detected

Analyst(s)

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nays is performed by EMSL Westmont (NVLAP #101048-0), NY ELAP 10872



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## Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized **Light Microscopy**

					Non-As	sbestos	Asbestos
Sample	Location	Appearance	Treatment	% F	ibrous	% Non-Fibrous	% Type
OPL-31A/M 040303133-0073	BSMT - NORTH AREA	Black Fibrous Homogeneous	Dissolved			90% Non-fibrous (other)	10% Chrysotile
OPL-31B/T 040303133-0048	BSMT - NORTH AREA	Gray Non-Fibrous Homogeneous	Dissolved			100% Non-fibrous (other)	None Detected
OPL-31B/M 040303133-0074	BSMT - NORTH AREA			A	· 9:		Not Analyzed
L-32A/T 040303133-0049	BSMT - SOUTHEAST AREA	Beige Non-Fibrous Homogeneous	Dissolved		(e)	100% Non-fibrous (other)	None Detected
OPL-32A/M 040303133-0075	BSMT - SOUTHEAST AREA	Gold Fibrous Homogeneous	Dissolved	5%	Cellulose	95% Non-fibrous (other)	None Detected
OPL-33A/WHITE LYR 040303133-0050	OUTSIDE CW LINES - NORTH SIDE OF BLDG	White Fibrous Heterogeneous	Dissolved	20%	Glass	80% Non-fibrous (other)	None Detected
OPL-33A/BLK LYR 040303133-0076	OUTSIDE CW LINES - NORTH SIDE OF BLDG	Black Non-Fibrous Homogeneous	Teased			100% Non-fibrous (other)	None Detected
OPL-33B/WHITE LYR 040303133-0051	OUTSIDE CW LINES - NORTH SIDE OF BLDG	White Fibrous Heterogeneous	Dissolved	15%	Glass	85% Non-fibrous (other)	None Detected
OPL-33B/BLK LYR 040303133-0077	OUTSIDE CW LINES - NORTH SIDE OF BLDG	Black Non-Fibrous Homogeneous	Teased		Э	100% Non-fibrous (other)	None Detected

Analyst(s)

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## Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized **Light Microscopy**

				Non-Asbestos				Asbe	stos
Sample	Location	Appearance	Treatment	% Fi	brous	%	Non-Fibrous	% Ту	pe
OPL-34A	ROOF DRAIN	Black	Dissolved	30%	Cellulose	(8)	70% Non-fibrous (other)	None D	Detected
040303133-0052	LINE - EAST EXTERIOR - STREET LEVEL	Fibrous Heterogeneous							
OPL-35A 040303133-0053	OUTSIDE - NORTH SIDE OF BLDG	Black Fibrous Heterogeneous	Dissolved		Cellulose Glass		95% Non-fibrous (other)	<1%	Chrysotile

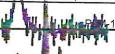
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EMSL Representative: Apt Wilhais  Your Company Name: Macrace Burgs. & Conseirure. Tell.  Box #:	(HVE)	ANALYTIC	AL CHA	NIN OF CUSTO	0//1	$\gamma$	- L of - 3
Street: MOS ENGLISHER & CONSULTANT TOE STREET & CONSULTANT OF CHARGE & CONSULTANT &	EMSL Represe	entative: Ray	Villakie	/	CAN	HODE	3103
Sox #:   Suit   330   Street:   HOS SHOUTUREY PROMISES   City/State:   Suit   330   Street:   Suit   340   Street:   Stre	Your Company	Name: MACTEC FA	GR. F CANENTENNE	FMSL-RILL			
BOX#: SUITE 330 BOX#: SUITE 320 City/State: Oxtended File International City/State: Ox	Street:	605 E. Ro	Braissel Storrt	Stroot:	MAGTEC ENG	INEERING P	CousuLTING.
City/State:   Oxford   FL   Zip:   JABO   City/State:   State   Stat	Box #:				7100 37	OCTUARY 1	PARKWAY
Telephone #:	City/State:						
Telephone #:   1607 246 066	Verbal Results	s to:	- IP. 300	Eav Popular to	HLPHABET	TA, GA.	Zip: 3000°
Project Name/Number:	Telephone #:	40.7- 6	46.0046		SHAWN &	RIGHAM	
MATRIX	Project Name/N			The second secon	407- 2ª	16.1566	
Air			30007,07				
Water   Dust   Wastewater   Yang   12 Hours   12 Hour	□ Air □ F		I □ Wipe	D.6 Hours D.4			
Water   PLM   Contac   Conta	Bulk 🗆 D		and the same of th				
PCM - RIFA	V	Vater			Days 🗆 6	-10 Days	
NIOSH 7400   TEPA 600   Drop Mount (Qualitative)   Wastewater   Wastewater   Other:   Point Count   Chatfield   SEM QC   Water-NY Wastewater   TEM AIR   Other:   Conventional (Quantitative)   Water-NY Drinking Water EPA 1   Water-NY Drinking Water EPA	PCM - ALP	N PLM	a		Eyy		Contact Lab
OSHA   NOB   Chatfield   Sem QC   Drinking Water EPA 1   Water NY Wastewater   Point Count   Chatfield   SEM QC   Water NY Wastewater   Conventional (Quantitative)   Water NY Drinking Water EPA 1   Water NY Drinking Water NY Drinking Water EPA 1   Water NY Drinking Water EPA 1   Water NY Drinking Water EPA 1   Water NY Drinking Water NY Drinking Water EPA 1   Water NY Drinking Water NY	☐ NIOSH 7400	The state of the s	500 ·		,, <u>1</u>	EM WATER	3
Chatfield / SEM QC	□ OSHA		-	T Chattiald	itive)		
Conventional (Quantitative)   Water-NY Drinking Water-NY Drinkin		☐ Point				1 Drinking Wa	iter EPA 100.1
AFENA   Gualitative   NOB   TEM WIPE   Level     Quantitative   NOB   NOB   TEM WIPE   Level     Quantitative   NOB   SEM QC   Quantitative   Quantitative   Micro Vac - Quantitative   Quantitative   Micro Vac - Quantitative   Micro Vac - Quantitative   Quantitative   Micro Vac - Quantitative   Micro Vac - Quantitative   Quantitative   Micro Vac - Quantitative   Quantitative   Quantitative   Micro Vac - Quantitat	TEM AIR	☐ Other			titativa)		
□ NIOSH 7402 □ Qualitative □ NOB □ TEM WIPE □ Level I □ Quantitative □ Micro Vac - Quantitative □ Quantitative □ Quantitative □ Micro Vac - Quantitative □ Quantitative □ Quantitative □ Qualitative □ Quantitative □ Micro Vac - Quantitative □ Quan	☐ AHERA	SEM	-		iliative)	Water-NY Dr	inking Water
Level       Quantitative     NOB / SEM QC   Quantitative   Quant	☐ NIOSH 7402		afive =				3
Level	□ Level1		_		T	EM WIPE	
Micro Vac - Qualitative  Date:  Total Samples:  I 5/10  Total Samples:  I 5/10  Time:  Time:  Time:  Date:  Date:  Date:  Time:  Time:  Time:  Time:  Time:  Time:  Time:  Date:  Time:  Time: Time: Time:  Time: Time: Time: Time: Time: Time: Time: Time: Time: Time		L Quant	tative			Quantitative	
Asbestos   COMMENTS   STAP PT FIRST FESTIVE   COMMENTS   SIlica   Client Sample # (s)   Silica   Client Sample # (s)   Total Samples:   5 /			<u> </u>	Micro Vac - Quantita	tive 🗆	Qualitative	
Asbestos  Silica  Client Sample # (s)  Received:  Received:  Received:  Received:  Received:  Ashaple Date:  SAMPLE DATE  SAMPLE NUMBER  MATERIAL  LOCATION DESCRIPTION  WESSED DATE  SAMPLE NUMBER  MATERIAL  LOCATION DESCRIPTION  WESSED DATE  Time:  Time:	XRD	☐ OTHER					
Silica Client Sample # (s) Relinquished: Received: Received: SAMPLE DATE SAMPLE NUMBER MATERIAL LOCATION DESCRIPTION  OPL-1A HUAC DUCT SEAN MASTIC - GRAY  OPL-3A HUAC DUCT SEAN MASTIC - GRAY  OPL-4A HUAC DUCT SEAN MASTIC - GRAY  OPL-4A HUAC DUCT SEAN MASTIC - GRAY  OPL-4A HUAC DUCT SEAN MASTIC - GRAY  OPL-4B  OPL-4B  OPL-4B  OPL-4B  OPL-4B  OPL-4B  OPL-4B  OPL-4C  N  OPL-4C  N  OPL-5B  HUAC DUCT SEAN MASTIC - WHITE  FIRST AND HADDER BOTH MASTIC - WHITE  OPL-5B  HUAC DUCT SEAN MASTIC - WHITE  OPL-5B  OPL-5C  N  OPL-5C  N  OPL-5C  N  OPL-5C  N  OPL-5C  N  OPL-5C  N  OPL-5B  FRAN GLASS MUS BAT - ELBOW  ROS FAR HANDER RE  THAN GLASS MUS BAT - ELBOW  ROS FAR HANDER RE  OPL-5B  FRAN GLASS MUS BAT - ELBOW  ROS FAR HANDER RE  OPL-5B  FRAN GLASS MUS BAT - ELBOW  ROS FAR HANDER RE  OPL-5B  FRAN GLASS MUS BAT - ELBOW  ROS FAR HANDER RE  OPL-5B  FRAN GLASS MUS BAT - ELBOW  ROS FAR HANDER RE  OPL-5B  FRAN GLASS MUS BAT - ELBOW  ROS FAR HANDER RE  OPL-5B  FRAN GLASS MUS BAT - ELBOW  ROS FAR HANDER RE  OPL-5B  FRAN GLASS MUS BAT - ELBOW  ROS FAR HANDER RE  OPL-5B  FRAN GLASS MUS BAT - ELBOW  ROS FAR HANDER RE  OPL-5B  FRAN GLASS MUS BAT - ELBOW  ROS FAR HANDER RE  OPL-5B  FRAN GLASS MUS BAT - ELBOW  ROS FAR HANDER RE  OPL-5B  FRAN GLASS MUS BAT - ELBOW  ROS FAR HANDER RE  OPL-5B  FRAN GLASS MUS BAT - ELBOW  ROS FAR HANDER RE  OPL-5B  FRAN GLASS MUS BAT - ELBOW  ROS FAR HANDER RE  OPL-5B  FRAN GLASS MUS BAT - ELBOW  ROS FAR HANDER RE  OPL-5B  FRAN GLASS MUS BAT - ELBOW  ROS FAR HANDER RE  OPL-5B  FRAN GLASS MUS BAT - ELBOW  ROS FAR HANDER RE  OPL-5B  FRAN GLASS MUS BAT - ELBOW  ROS FAR HANDER RE  OPL-5B  FRAN GLASS MUS BAT - ELBOW  ROS FAR HANDER RE  OPL-5B  FRAN GLASS MUS BAT - ELBOW  ROS FAR HANDER RE  TIME:  TIME:  TIME:  TIME:  TIME: TIM	☐ Asbestos			MAN AT TRES	ASTIUE "	0.0	<b>=</b>
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Received: Received: Received:  SAMPLE DATE  SAMPLE NUMBER  MATERIAL  LOCATION DESCRIPTION  WELLOW TIME: Time		s)			Takal C. I	<u>\$</u> _	10
Received:  SAMPLE DATE SAMPLE NUMBER MATERIAL LOGATION DESCRIPTION  OPL-1A HUAC DUCT SEAN MASTIC - GRAY  OPL-3A HUAC DUCT SEAN MASTIC - BROWN  OPL-3A HUAC DUCT SEAN MASTIC - BROWN  OPL-3A HUAC DUCT SEAN MASTIC - LIGHT GREEN FOR ANALYSIS CONTROL  OPL-3A HUAC DUCT SEAN MASTIC - LIGHT GREEN FOR ANALYSIS CONTROL  OPL-3A HUAC DUCT SEAN MASTIC - LIGHT GREEN FOR ANALYSIS CONTROL  OPL-4A HUAC DUCT SEAN MASTIC - LIGHT GREEN FOR ANALYSIS CONTROL  OPL-4B II		BOBERT NI	FRASARI)	Date:	TALL CONTRACTOR OF COMM.	-su	5/
RECEIVED:  SAMPLE DATE SAMPLE NUMBER MATERIAL LOCATION DESCRIPTION  WELLOW TO DUT SEAN MASTIC - GRAY  OPL-1A HUAC DUCT SEAN MASTIC - GRAY  OPL-3A HUAC DUCT SEAN MASTIC - GRAY  OPL-3A HUAC DUCT SEAN MASTIC - GRAY  OPL-3A HUAC DUCT SEAN MASTIC - BROWN  NOOPL-4A HUAC DUCT SEAN MASTIC - LIGHT GREEN THAT DESCUS LOCATIONS  NOOPL-4A HUAC DUCT SEAN MASTIC - LIGHT GREEN THAT DESCUS LOCATIONS  OPL-4B """  OPL-4B """  OPL-4B """  OPL-4B """  OPL-4B """  OPL-4B """  OPL-4C """  OPL-4D """  OPL-5A HUAC DUCT SEAN MASTIC - LIGHT GREEN TO THE HAD THE TOTAL TO T	V		12/1/2			-	9311
MATERIAL LOCATION DESCRIPTION  WELLOWS TOTAL AND MASTIC - GRAY  WELLOWS TOTAL SEAN MASTIC - GRAY  MOPL-4A HUAC DUCT SEAN MASTIC - MATE  B. ROSE AIR MASTIC - WHITE  WALLOWS LOCATIONS  WALLOWS LOCATIONS  WALLOWS LOCATIONS  WALLOWS LOCATIONS  WHITE SEAF HIS HANDER TO  WALLOWS LOCATIONS  WALLOWS LOCATIONS  WHITE SEAF HIS HANDER  WASTIC - WHITE  WELLOWS LOCATIONS  WALLOWS LOCATIONS				TOTAL CONTRACTOR		market.	
HUAC DUCT SEAN MASTIC - GRAY  11 OPL-1B HUAC DUCT SEAN MASTIC - GRAY  12 Flooz - S. L.I. CHAIN  11 OPL-3A HUAC DUCT SEAN MASTIC - BROWN  12 OPL-3A HUAC DUCT SEAN MASTIC - BROWN  13 OPL-4A HUAC DUCT SEAN MASTIC - LIGHT GREEN B- ROSE AIR HANDER  14 OPL-4B HUAC DUCT SEAN MASTIC - WHITE ROSE AIR HANDER BE  15 OPL-4B III III III III III III III III III I			MATERIAL		7. 173 'erre' .		
11 OPL-3A HUAR DUCT SEAM MASTIC - GRAY  11 OPL-3A HUAR DUCT SEAM MASTIC BROWN  11 OPL-3A HUAR DUCT SEAM MASTIC LIGHT GREEN BY BOUT - ATTA HAM  11 OPL-4A HUAR DUCT SEAM MASTIC - WHITE POST ATTA HAM  11 OPL-4B " " " - WHITE IS Floor BY MASTIC BY AND STATE BY AND	203/3-2-53	OP4-1A	HUAC DUCT SEA	WI ALASTIC - CO.		VERTOZIONE	27/02
11 OPL-3A HUAR DUCT SEAM MASTIC - BROWN THOSE SEAM MUSIC MEAN THOSE PASS MASTER AND LET ROUS LACETIONS 11 OPL-3A HUAR DUCT SEAM MASTIC - LIGHT GREEN THOSE DUCT AT HAD THE TOPL AND THOSE DUCT SEAM MASTIC - WHITE PROF AIR HADDER PASS MASTER TO PLAN AND THE PROPERTY OF THE MASTER PASS MASTIC BASE OF THE HADDER PASS MASTER TO PLAN AND THE PROPERTY OF THE MASTIC BASE MASTER SUPPLY DUCT SEAM MASTIC BASE MASTER AND HADDER	11				7 30	A AIRHA	DER ROOM!
HURC DUCT SEAM MASSIC. BROWN  ROSE SIZE HAND JER PO  HURC DUCT SEAM MASSIC. LIGHT GREEN BY ROSE AIR HANDJER PO  HURC DUCT SEAM MASSIC. LIGHT GREEN BY ROSE AIR HANDJER PO  HURC DUCT SEAM MASSIC. WHITE POST AIR HANDJER PO  II OPL. 4B  II OPL. 4C  II			HUAC DUCT SEAR	1 ALASTIC - 627	y 12	Flor2 - 510	2 Bushand A
11 OPL-40 HUPC DUCT SEPAN MASTIC - LIGHT GREEN THAT PAIR HANDER 11 OPL-40 HUPC DUCT SEPAN MISSIC - WHITE POST AIR HANDER POST OPL-40 II		OPL-AH			2	20005 4	ace Trails
11 OPL-49 HUPC DUCT SEAM MASSIC - WHITE ROSE AIR HANDLER POR OPL-4B  11 OPL-4B  11 OPL-4B  11 11 11 11 11 11 11 15 Flood EAST COMMON FOR THE PROPERTY OF THE P	"	OPL-3A	41190 2000 500	Al Maria Live	M	THE DITE	740 100 500
11 OPL-48 11 11 11 - WHITE 15 Floor, B.W. Book Space 11 OPL-40 11 11 11 - WHITE 15 Floor, EAST CONTROL FOR 11 OPL-57 HUPC DUCT SEAN MASSIC - BLACK N.E., Par AIR HANDER. 11 OPL-513 11 11 - BLACK N.E., Par AIR HANDER. 11 OPL-56 11 11 11 - BLACK NEET ROOMS 11 OPL-68 FRANGLASS, NWO BAT - ELBOW ROOMS ROOMS 12 OPL-68 FRANGLASS, NWO BAT - ELBOW ROOMS ROOMS 13 OPL-68 FRANGLASS, NWO BAT - ELBOW ROOMS ROOMS ROOMS 14 OPL-68 FRANGLASS, NWO BAT - ELBOW ROOMS ROOMS ROOMS 15 OPL-68 FRANGLASS, NWO BAT - ELBOW ROOMS AND PROMISE ROOMS 16 OPL-68 FRANGLASS, NWO BAT - ELBOW ROOMS AND PROMISE ROOMS 17 OPL-68 FRANGLASS, NWO BAT - ELBOW ROOMS AND PROMISE ROOMS 18 OPL-68 FRANGLASS, NWO BAT - ELBOW ROOMS AND PROMISE ROOMS ROOMS ROOMS AND PROMISE ROOMS RO	67		110110 1001 007	in NIABIC - LIGHT	OKEEN B	- Rost Ain.	HOWER POOL
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11 OPL-40 11 11 11 11 11 12 15 16 CANGON FOR OPL-57 HUPC DUCT SEAR MASSIC - BLACK NET AIR HANDER SUPPLY DUCT SEAR MASSIC - BLACK N.E. PAR AIR HANDER SUPPLY DUCT SEAR MASSIC - BLACK N.E. PAR AIR HANDER SUPPLY DUCT SEAR NO COPL-513 11 12 FLOOR AT NO STALL NET FLOOR DUCTS - BLACK NET HOLD DUCTS - AIR HANDER SUPPLY DUCTS - BLACK NET HOLD DUCTS - AIR HANDER SUPPLY DUCTS - AIR HANDER S	-1	OPL-43	11 /1	/1			
11 OPL-40 11 11 11 11 11 125 TO AND COPL-5A PROPERTY OF THE PR	11	OPL-4C	11 11	11			
" OPL-5A HUAC DUCT SEAN MASSIC - BLACK  " OPL-5B " OPL-5B " OPL-5B " OPL-6B FEAN GLASS MID GAT - ELAN  " OPL-6B	/)		11 //	//			
" OPL-513 " OPL-513 " OPL-513 " OPL-68 FORM GLASS IND CATE FLAND	n			WHITE	0 -	HOOR NORTH	WEST BOSH
" OPL-68 FORM GLASS MID COT. FLAM BOSE FIRM PROPERTY OPL-68 FORM GLASS MID COT. FLAM BOSE FIRM PROPERTY OPL-68 FORM GLASS MID COT. FLAM BOSE FIRM HAD THE PROPERTY OPL-68 FORM GLASS MID COT. FLAM BOSE FIRM HAD THE PROPERTY OPL-68 FORM GLASS MID COT. FLAM BOSE FIRM HAD THE PROPERTY OF TH	11	15		MASTIC - BLA	ck W.E	- PAGE AIR A	12012
OPL-6A FRANGLASS, NUO BAT - ELASON ROSE AND ROSE AND ROSE AND PROMISED PROM	11	15		- BLAC	1. 1/2	FORK AT	NO 2074 WEST
OPL-6A FRANGLASS, NUO BAT - ELASON POOR AND AND POOR POOR POOR POOR POOR POOR POOR POO				- BLA	1. 25	FLOOR DU	
OPL-6B FORM GLASS ALSO GOT FLAM) REST FERTHADIER PER			FARXI GLASS, MUD	BAT - ELASUS	Rox	IF DID HO	120 Quant
(1) Description (1) 1 Description		OPL-6B	FARM GLACE NI.	Con Han	Ra	SF ASP HAR	Per Bon -
8-03/3-2-03	3-03/3-2-03		74/2//10	1071- EHOON	CU	J RETURN /	MIE
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SHT. \_ OF 3 2-28-03/

DATE



## CHAIN OF CUSTODY

PROJECT AVANTE: ORANGE CHANTY PUBLIC LIBRARY
PROJECTS: 6320030020

MASTEC ENGR, & CONSUL SAMPLE NUMBER		DESCRIPTION VOLUME (If Applica
OPL-7A	FIRERALS TWOIL, FELT, (	Burge alma Bose Air Harry
OPL. 78	FIREPOLASS INSW, FELT G	ROOF ALL HOLDIES
OPL. BA	Franchist, Fail & C	Rest AIR HADER
OPL-88	FREGLASS TRUL, FULL	ROST AIR HANDLE
OPL. 9A	FIBERGIAES TUSK, MECH.	& Course has Roof AIR HANDIE
OPL-10A	VIBRATION DAMPHURER M	
OPL-11A	PACKING MATERIAL	REST AIR HASOLER AHU B- AT AICC-2 E
OPL-12A	FIBERASS MON: FELT, Foil,	CANAS WARD OLD HURC DU
OPL-12B	J11 11 11	11 11
OPL-12C	11 11 11 11	BASENERST CLOTOSIAN ROOM
OPL-13A	PLASER	300 Florz-Roof L
OPL-13B	PLASTER	200 Floor Nos
OPL-13C	PLANTER	STORAGE SPACE
OPL-14A	PISOURED, PIN HOLES, AND !	PERED : 200 Flore
OPL-15,7	CARPET ADHESIVE - BRO	MRECTIONAL NAZIH AREA  WHO FLOOR  WHOLE STRENGE F
OPL-16A	Cour BASE/ALASTIC -21	ach Plans
OPL-17A	Ducy Seas Massic - K	ON FLOOR STATE
OPL-18A	2'X2' RECESSED, CEILIN TIL	PEXILE OF PLOOR OF THE
OPL-19A	I'XI' Floor TILE/TAN ADVES	- D. DAD FLOOR STATE
5PL-20A	FREELISS KOL- FOIL PAF	PER WILD KITCHED MUYC DUC
opl-a/A	TRANSED ON Skin WALL CO	TWG ONE GYPROPED ARED ARED
OPL-213	" " "	11 11 155 Flaxe, 5,8
OPL- RIC	" " "	11 11 12 Flood, 5,0
OPL-22A	2'x4' = 2'x2' Eiling Tite - P	NT FISSURED N. W. AREA
OPL-23A	2'X4' CEILIN TITE, FISCIRED, C	Sentes long Book France
OPL. 24A	191/2" × 191/2" FLOOR TILE MESH,	Anusine Tolland - NE
OPL- 25A	19/2" X 18/2" Flow Tile NEH	135 /TOO. D. E.

DATE



EMSL Analytical, Inc. Revised 07/07/99

# CHAIN OF CUSTODY

PROJECT NAME: ORANGE CONTY PUBLIC LIBRARY

	MACTEC ENGR, & CONSULTER	4, Inc. Paster \$1 638003003	7 01
DIE	SAMPLE NUMBER	MATERIAL LOCATION DESCRIPTION	
7-2-03	OPL. 26A		B'SNT (STAPPHEADIE)
11	OPL- 268	CENERTIALS MUNDED ZIBOW	H.W. HEATER LINE B'SMT. CUSTODIAN ROOM
- /	OPL- 27A		HIW. METRER LINE
"	OPL 28A	CANUAS (e) RAP-HUAC RETURN DUCT	BSNI COSTADIAN ROOM
- 1/		FIBERRYSS, FELT, FOIL, CANUAS CURAD	BISKT CUSTODIAN POOR
	OPL: 2917	ADHESIVE / CBRK - SWUD BITTLE	BONT STORAGE NOW
- [,,	OP6-30A	13"x13" Floor Tite Belge - 12 Berge - 15 Berg - 15 Be	Benit grange N, W.
	OPL- 31A	18"X18" Floor Tile Back MASTIC	BONT WERTH AREA
_ [ ]	OPL-318	" 11 11	BONT NORTH ADER
_ 1	oph. 327	12"x12" Floor TILE - CREAM BEIGE GIRCAL	5 BSNOT SWITH FAS AN
_   .			
"	OPL- 33A	TESTICALASS, CANUAS WRAP, WHITE	MOSTSIDE C.W. LINES
_  "	opl-33B	FEARIGLASS, CALLAS OSRAP, WHITE	11 11 11
	OPL-34A	OXKUAS WRZP. B/K-	FAST EXTERISZ-STREET LE
	apl- 3577	William Coulk - 1'wis = gass	OUTSIDE AS BLE
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EMSL Project ID:

Analysis Date:

5/26/2003

# Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized **Light Microscopy**

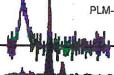
Sample	1 <b>1</b>	42			Non-As	bestos		Asbestos
	Location	Appearance	Treatment	% F	ibrous	% No.	n-Fibrous	% Type
OPL-1A 040308007-0001	BASEMENT PARKING N.E.	Gray Fibrous Hatarogeneous	Teased	<1% 90%		10%	Non-fibrous (other)	None Detected
OPL-1B 040308007-000Z	BASEMENT PARKING S.E.	Gray Fibrous Heterogeneous	Teased	<1% 90%	Cellulose Min. Wool	10%	Non-fibrous (other)	None Detected
OPL-1C 040308007-0003	BASEMENT PARKING CENTER	Gray . Fibrous Heterogeneous	Teased	17,000	Cellulose Min. Wool	10%	Non-fibrous (other)	None Detected
OPL-1D 040308007-0004	BASEMENT PARKING S.W.	Gray Fibrous Heterogeneous	Teased	<1% 90%	Cellulose Min. Wool	10%	Non-fibrous (other)	None Detected
OPL-1E 040308007-0005	BASEMENT PARKING N.W	Gray Fibrous Heterogenaous	Teased	<1% 90%	Cellulose Min. Wool	10%	Non-fibrous (other)	None Detected
OPL-2A 940308007-0006	BASEMENT PARKING N.E. AREA	Gray/Green Non-Fibrous Heterogeneous	Teased Dissolved	5% 15%	Cellulose Min. Wool	80%	Non-fibrous (other)	None Detected
DPL-2B : 140308007-0007	CHILLER ROOM @ CHILLER 2	Gray/Green Non-Fibrous Heterogeneous	Teased Dissolved	5% 15%	Cellulose Min. Wool	80%	Non-fibrous (other)	None Detected
DPL-2C 40308007-0008	CHILLER ROOM	Gray/Green Non-Fibrous Heterogeneous	Teased Dissolved	100000000000000000000000000000000000000	Cellulose Min. Wool	80%	Non-fibrous (other)	None Detected
OPL-3A 40308007-0009	BASEMENT CHILLER ROOM OVER CHILLER #2	Tan Fibrous Heterogeneous	Teased		Cellulose Min. Wool	20%	Non-fibrous (other)	None Detected

Analyst(s)

Joseph Nihill (55)

Stephen Siegel, CIH or other approved signatory

PLM has been known to mise asbeatos in a small percentage of samples which contain asbestos. Negative PLM results connot be guaranteed. Samples reported as <1% or none detected should be tested with TEM. The above test report relates only to the items tested. This report may not be reproduced, except in full, without written approval by EMSL Analytical, inc. The above test must not be used by the client to claim product endorsement by NVLAP nor any agency of the United States Government. utalysis performed by EMSL Westmont (NVLAP #101048-0), NY ELAP 10872



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## Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized **Light Microscopy**

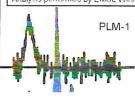
					Non-As	sbestos	Asbestos
Sample	Location	Appearance	Treatment	% Fi	brous	% Non-Fibrous	% Type
OPL-4A 040308007-0010	BASEMENT CHILLER ROOM THROUGHOUT	Gray Non-Fibrous Heterogeneous	Teased Crushed	<1%	Cellulose	100% Non-fibrous (other)	None Detected
OPL-4B 040308007-0011	BASEMENT CHILLER ROOM THROUGHOUT	Gray Non-Fibrous Heterogeneous	Teased Crushed	<1%	Cellulose	100% Non-fibrous (other)	None Detected
OPL-5A 040308007-0012	BASEMENT CHILLER ROOM PUMP HOUSING	Gray Non-Fibrous Heterogeneous	Teased Dissolved	5% 10%		85% Non-fibrous (other)	None Detected
QPL-5B 308007-0013	BASEMENT CHILLER ROOM PUMP HOUSING	Gray Non-Fibrous Heterogeneous	Teased Dissolved	5% 10%		85% Non-fibrous (other)	None Detected
OPL-5C 040308007-0014	CHILLER ROOM ELBOW	Gray Non-Fibrous Heterogeneous	Teased Dissolved	5% 10%	Cellulose Min. Wool	85% Non-fibrous (other)	None Detected
OPL-6A TILE 040308007-0015	BASEMENT	White Non-Fibrous Heterogeneous	Crushed Dissolved	<1%	Cellulose	100% Non-fibrous (other)	None Detected
OPL-6A MASTIC 040308007-0052	BASEMENT	Black Non-Fibrous Heterogeneous	Teased Dissolved	3%	Cellulose	87% Non-fibrous (other)	10% Chrysotile
OPL-6B TILE 040308007-0016	5TH FLOOR NORTH HALLWAY	White Non-Fibrous Heterogeneous	Crushed Dissolved	<1%	Cellulose	100% Non-fibrous (other)	None Detected
OPL-6B MASTIC 040308007-0053	5TH FLOOR NORTH HALLWAY						Not Analyzed

Analyst(s)

Joseph Nihill (55)

Stephen Siegel, CIH or other approved signatory

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## Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized **Light Microscopy**

				Non-Asbestos				Asbestos
Sample	Location	Appearance	Treatment	% Fi	brous ·	%	Non-Fibrous	% Type
OPL-7A 040308007-0017	BASEMENT	Gray Fibrous Heterogeneous	Teased	40% 40%	Cellulose Min. Wool		20% Non-fibrous (other)	None Detected
OPL-7B 040308007-0018	BASEMENT	Gray Fibrous Heterogeneous	Teased		Cellulose Min. Wool		20% Non-fibrous (other)	None Detected
OPL-8A 040308007-0019	BASEMENT CUSTODIAN ROOM	White Fibrous Heterogeneous	Teased	50%	Cellulose		50% Non-fibrous (other)	None Detected
QPL-8B 308007-0020	5TH FLOOR DWG ROOM	White Fibrous Heterogeneous	Teased	50%	Cellulose		50% Non-fibrous (other)	None Detected
OPL-9A 040308007-0021	BASEMENT AHU- 1 ROOM BELOW STAIRS		Teased Dissolved	15%	Cellulose		80% Non-fibrous (other)	5% Chrysotile
OPL-10A 040308007-0022	BASEMENT AHU- 1 ROOM BELOW STAIR 3 FLOOR		Teased Dissolved	10%	Cellulose		90% Non-fibrous (other)	None Detected
OPL-10B 040308007-0023	BASEMENT AHU- 1 ROOM BELOW STAIR 3 FLOOR		Teased Dissolved	10%	Cellulose		90% Non-fibrous (other)	None Detected
OPL-11A 040308007-0024	4TH FLOOR AHU- 13		Teased Dissolved	10%	Cellulose		90% Non-fibrous (other)	None Detected
OPL-11B 040308007-0025	4TH FLOOR AHU- 13		Teased Dissolved	10%	Cellulose		90% Non-fibrous (other)	None Detected
		incter og chedda		1	e	2°	Stephen &	regel

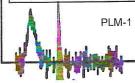
Analyst(s)

Joseph Nihill (55)

Stephen Siegel, CIH or other approved signatory

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## Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized **Light Microscopy**

					Non-A	sbesto	9	Asbestos
Sample	Location	Appearance	Treatment	% Fi	brous	%	Non-Fibrous	% Type
OPL-15A 040308007-0035	BASEMENT TALKING BOOKS AREA	White Fibrous Heterogeneous	Teased	40% 40%	Cellulose Min. Wool		20% Non-fibrous (other)	None Detected
OPL-15B 040308007-0036	4TH FLOOR LAW AREA	SASS AMORNA	Teased .	40% 40%			20% Non-fibrous (other)	None Detected
OPL-16A 040308007-0037	1ST FLOOR ELECT. ROOM	White Fibrous Heterogeneous	Teased		Cellulose Min. Wool	•	20% Non-fibrous (other)	None Detected
OPL-16B 040308007-0038	3RD FLOOR ELECT. ROOM	White Fibrous Heterogeneous	Teased	C. C	Cellulose Min. Wool		20% Non-fibrous (other)	None Detected
OPL-17A TILE 040308007-0039	1ST FLOOR WEST END	White Non-Fibrous Heterogeneous	Crushed Dissolved	<1%	Cellulose	# 2 21	100% Non-fibrous (other)	None Detected
OPL-17A MASTIC 040308007-0054	1ST FLOOR WEST END	Black o Non-Fibrous Heterogeneous	Tesped • ** Dissolved	5%	Cellulose		90% Non-fibrous (ather)	5% Chrysotile
OPL-18A 040308007-0040	1ST FLOOR WEST END	Gray Non-Fibrous Heterogeneous	Teased Dissolved	2%	Cellulose		95% Non-fibrous (other)	3% Chrysotile
OPL-19A 040308007-0041	1ST FLOOR NORTH AREA HALLWAY WALL	White Non-Fibrous Heterogeneous	Teased	15%	Cellulose		85% Non-fibrous (other)	None Detected
OPL-19B 040308007-0042	2ND FLOOR NORTH AREA HALLWAY	White Non-Fibrous Heterogeneous	Teased	15%	Cellulose		85% Non-fibrous (other)	None Detected

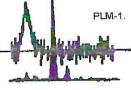
Ana.	ys	t(S)

Joseph Nihill (55)

Stephen Siegel, CIH or other approved signatory

PLM has been known to miss asbestos in a small percentage of semples which contain asbestos. Negative PLM results cannot be gueranteed. Semples reported se <1% or note detected should be tested with TEM. The above test report relates only to the items tested. This report may not be reproduced, except in full, without written approval by EMSL Analytical, Inc. The above test must not be used by the client to claim product andorsement by NVLAP nor any agency of the United States Government.

Analysis performed by EMSL Westmoni (NVLAP #101048-0), NY ELAP 10872



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Phone: (856) 858-4800 Fax: (856) 858-4960 Email: sslegel@EMSL.com



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Analysis Date:

5/26/2003

040308007

## Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized **Light Microscopy**

					Non-	-Asbestos		<u>Asbestos</u>
Sample	Location	Appearance	Treatment	% Fil	ibrous	% No	n-Fibrous	% Type
OPL-19C 040308007-0043	5TH FLOOR WEST HALLWAY	White Non-Fibrous Heterogeneous	Teased	20%	Cellulose	80%	% Non-fibrous (other)	None Detected
OPL-19D 040308007-0044	4TH FLOOR WEST STUDY ROOM	White Non-Fibrous Heterogeneous	Teased	. 15%	Cellulose	85%	% Non-fibrous (other)	None Detected
OPL-20A 040308007-0045	4TH FLOOR NORTH	Gray Non-Fibrous _ & Heterogeneous	Teased		Cellu]ose	98%	% Non-fibrous (other)	None Detected
OPL-20B 040308007-0046	4TH FLOOR S.E.	Gray Non-Fibrous Heterogeneous	Teased	2%	Cellulose	98%	% Non-fibrous (other)	None Detected
OPL-20C 040308007-0047	4TH FLOOR SOUTH	Gray Non-Fibrous Heterogeneous	Teased	2%	Cellulose	98%	6 Non-fibrous (other)	None Detected
OPL-21A 040308007-0048	5TH FLOOR EAST HALLWAY	Tan Fibrous Heterogeneous	Teased	40% 40%		20%	6 Non-fibrous (other)	None Detected
OPL-21B 040308007-0049	5TH FLOOR NORTHEAST CONFERENCE ROOM	Tan Fibrous Heterogeneous	Teased	2 20		20%	6 Non-fibrous (other)	None Detected
OPL-21C 040308007-0050	5TH FLOOR EAST CENTER OFFICE	Tan Fibrous Heterogeneous	Teased	200000000		20%	6 Non-fibrous (other)	None Detected
OPL-22A TILE 040308007-0051	5TH FLOOR QUEST LINE OFFICE	Gray Non-Fibrous Heterogeneous	Crushed Dissolved	<1%	Cellulose	100%	4 Non-fibrous (other)	None Detected

Analyst(s)

Joseph Nihill (55)

Stephen Siegel, CIH or other approved signatory

PLM has been known to miss aspectoe in a small percentage of samples which contain aspectos. Negative PLM results cannot be guaranteed. Samples reported as <1% or none detected should be tested with TEM. The above test report release only to the items tested. This report may not be reproduced, except in full, without written approval by EMSL Analytical, Inc. The above test must not be used by the client to claim product endorsement by NVLAP nor any agency of the United States Government. Analysis performed by EMSL Westmant (NVLAP #101048-0), NY ELAP 10872



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Analysis Date:

040308007

5/26/2003

## Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

					Non-A	sbesto	05	Asbestos
Sample	Location	Appearance - o	Treatment"	% FI	brous	%	Non-Fibrous	% Туре
OPL-22A MASTIC	5TH FLOOR	Yellow	Teased	2%	Cellulose		95% Non-fibrous (other)	None Detected
040308007-0055	QUEST LINE OFFICE	Non-Fibrous Heterogeneous	Dissolved	3%	Synthetic			

Analyst(s)

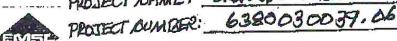
Joseph Nihill (55)

Stephen Siegel, CIH or other approved signatory

PLM has been known to miss asbestos in a small percentage of samples which contain eabestos. Negetive PLM results cannot be guaranteed, Samples reported as <1% or none detected should be tested with TEM. The above test report relates only to the items tested. This report may not be reproduced, except in full, without written approval by EMSL Analytical, Inc. The above test must not be used by the client to claim product endorsement by NVLAP nor any agency of the United States Government.

Analysis performed by EMSL Westmont (NVLAP #101048-0), NY ELAP 10872





PROJECT NAME: GRANDO PUBLIC CLIBRARY



**CHAIN OF CUSTODY** 

**ASBESTOS** 

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EMSL Represe	-		20040-0000-0			100		
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Street:	4/50 ADOLTH	They YOUNG		* 31 1 to 31		EAN CTUARY	PARKWAY	1.1
Box #:		· · · · · · · · · · · · · · · · · · ·	Box #:		SUITE	1921 (01)		
City/State:	- OBLANDO.	FL. Zip: 36	City/Sta			ETTA GR	_ Zip: <u>300</u>	204
Verbal Results				sults to:		ren BRT	- Lavada	
Telephone #:	401-2	583-7570				107-522.	7576	
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TEM AIR	□ Other:		☐ Convention		ltative)		T Wastewate Drinking Wa	
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DATE

EMSL Analytical, Inc.

CHAIN OF CUSTODY

Revised 07/07/99

Realer AND F. PROJECT NAME: ORLANDO

	Revised Unumas	14. TAC PROTECTE! 6380030039.06
i-	MASTEC ENGR. & CANSULTE SAMPLE NUMBER	(ASTERIAL TOTAL DESCRIPTION DESCRIPTION VOLUME (I Applicable)
F	SAMPLE NUMBER	CANCHE WHAD LASTITE MOTETIC BETT CHILLER 100
5-14-03	OPL-5A	ONE FORM CLASS TUCK. Penip HOUSING
5-14-03	OPL-5B	11 11 11 11 11 11 11 11
5-14-03	OPL-5C	n will chiller Room
	. ,	
5714-03	092-69	BETCH STOOL TILE PELK MARTIC BONT  BETCH STOOL TILE WAR BUTCH BONT  12" X 12" THER TILE WAR MARTIC DE FLOR NORTH
5-14-03	OPL 6B	1211/2124 Flore Tile 1 Blk maste 5th Flore North
	0,000	
34.03	OPL-74	21x4/ CEILING TILES -LOO PLANT BONIT.
7403	OPL-78	4 Thong Dage Hollassy
,,,,,,		- Tanasari
	-0/ P2	COIN SHANTARE W/WHITE MASTIC PENT, CUSTONIAN R
1403	OPL-8R	CLOTH SEPAN TAPE W/WHITE MARTIC PENT, (WITCHIAN) ROM
5-14-03	OPL-8B	3 TREEK VEG. KEN
		WHITE BEAUT HHU-I ROCK
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5-14-03	OPL-10 A	MUNIC DUCT BERM MASTIC - DARK BROWN) BELLY STAIR
5-14-03	08-108	11 11 11 11 28 Flair
5-14-03	OPL-10A	HUAC QUET STAM MASTIC - RED BENT AND I ROSA
5-14-03	OPL-11-13	H (1 1( 4 7 A4U-13
	0,100	
5-14-03	071-129	HUNC DUT ELEM MASTIC - LIGHT GRAY BONT PHU-1 ROOM
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5-14-03	OPL-12B	3.370-11 /2
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514-03	OPC-13A	HUAC DOXT SEAR MASTIC- LIGHT BROWN BONT AHU-1 R
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SHT. 3 07

5-14/15-03

DATE



EMSL Analytical, Inc. Revised 07/07/99 CHAIN OF CUSTODY

PROJECT NAME: OLLAND POBLIC CIRCLES

	MACTEC ENGL & CONSULTING	INC. PROJECTH: 638003003	7.06
	SAMPLE NUMBER	MATERIAL LOCATION DESCRIPTION	VOLUME (If Applicable)
7-14-03	0PL-14A	Stein Charlower WALLBOARD	BONET COU, DEV.
-14-03	OPL-1413	" H N 11 "	12 Hood, WEST SND
-14.03	OPL-14C	n a te es	2 From Nova Hallway
-14-03	OPL-140	11 11 11 11	4 HOR N.E HALLURY
:14-03	OR-14E	11 (. 6. 16	5 THE COURT HALLOWY
F1+03	OPL-14F	06 11 11 11	4 Hood. Was Stepp Ro
	CICIO		
	-0/-150	ainy Cellia Tiles, Freeved, Privades was Divection as	BEANT TALKAIS
M403	OPL-15A	¥ 52	HILL FLOOR
74-03	OPL-15B	n 1/ 6/	LAW AREA
5-14-03	08L-16A	7 XU CESTINS TILE - DEEP FBS0280, PINNEYES - LOW DIRECTIONER	1ST FLOOR
	OPL-16B	11 11 01	30 HOCK
5-14-63	CITE 10D		STATE COM
5-14-03	OPL-17F1	M'x 12" Floor TILE & Blk. AlASTIC	12 Floor WEST DAY
-	***	COUNTER SING	127-003
1-15-03	OPL-1819	VAPER BARROER CONTING PWK	WEST SED
			ت ت
5-15-03	OPL-19A	Cryster Wallborro Town Company	HER HAMMA WIN
5-15-03	opt-19B	0 11 / 11	AND FLOOTE NOTEDA
5-15-03	OPL-19C	11 11 11	STATE HARLEST
5-15-03	OPL-19D	n n	WEST BERY ROOM
		-	,
5-15-03	OPL-207	SOFFIT STUCCO (EXTERIOR)	4 THEOR NOZTH
645-03	091-208	11 1/ 11	4th Flore S.E.
5-15-03	OPL- 20C	11 4 11	4TE FLOR SOUTH

DATE

EMSL Analytical, Inc.

Revised 07/07/99

CHAIN OF CUSTODY
PRATECT NAME: ORIANDO PAGE

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-15-03			A SWITTER TO THE SWIT	SILL PLOOP DES
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