

**DEMOLITION ASBESTOS SURVEY  
112 S. OSCEOLA DRIVE  
CLEARWATER, FLORIDA**

**Prepared for:**

**Mr. Joe DeCicco  
Environmental Specialist  
City of Clearwater  
100 South Myrtle Avenue  
Clearwater, FL. 33756**

**Prepared by:**

**IBC Engineering-Environmental & Construction, LLC (ZA-388)  
8875 Hidden River Parkway, Suite 300  
Tampa, FL 33637**

**April 5, 2019**

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## **1.1 INTRODUCTION**

In accordance with written direction on March 5, 2019, Mr. Joseph DeCicco instructed IBC Engineering-Environmental & Construction, LLC, of Tampa, Florida, to perform a demolition asbestos survey of the building located at 112 S. Osceola Drive, Clearwater, Florida. The survey was conducted pursuant to the National Emissions Standards for Hazardous Air Pollutants (NESHAP) requirements. The following Survey Report details the findings of the Demolition Asbestos Survey for the referenced facility.

A preliminary site inspection was performed on March 7, 2019 with the survey being performed on March August 19-21, 2019. Mr. Oris Voigtmann conducted the survey.

## **1.2 SITE DESCRIPTION**

The subject property is comprised a three story building located at 112 S. Osceola Drive, Clearwater, Florida. The building was unoccupied. The building is constructed of concrete structure on a concrete foundation. The interior partitions were drywall or plaster on stud. The HVAC was insulated with fiberglass with mastic at the seams. The flooring was vinyl flooring, ceramic tile, carpet or concrete. The building had foam over built up roofing.

## **1.3 PURPOSE**

The purpose of conducting the survey for the subject complex is to:

- Locate and identify all types of Asbestos Containing Materials, ACM throughout the accessible areas.
- Assess the existing physical condition of the ACM and determine the relative hazards presented.
- Recommend response actions in accordance with the assigned "Hazard Priority Rating" for each type of ACM identified.
- Prioritize the ACM and physical areas in order of the specific response action required.

## **1.4 SCOPE**

The Scope of Work for this survey is as follows:

- Review available construction documents to determine potential locations of ACM and to develop sample plans.
- Conduct a field investigation to access and perform a visual inspection of all accessible areas of the units to be surveyed.
- Collect bulk samples of suspect ACM identified.
- Provide bulk sample analyses by an independent and accredited

laboratory.

- Assess condition of identified ACM and assign a “Hazard Priority Rating”.
- Prioritize those materials and areas which require response actions.
- Recommend appropriate response actions.

## 1.5 SAMPLING LOGIC AND PROTOCOL

The survey protocol involved the following sequences, where available or appropriate:

1. Interview persons to elicit information regarding building construction, use of facilities (past, present and future), number of building occupants, maintenance and custodial procedures, dates of construction, HVAC design, water systems, size of units/buildings, and other information as appropriate.
2. Review of previous inspection/survey reports, laboratory data, results, building plans, construction specifications, and other pertinent documents, if available.
3. A brief walk-through of the facility to be surveyed allowed conclusions to be made concerning the number of samples needed, access problems that were to be encountered, photographic needs, and degree of protection necessary for bulk sample collection.
4. A visual inspection was conducted to identify the locations of all suspect ACBM and physically touch the material to determine if it was to be classified as friable (easily crumbled) or non-friable. Suspect materials were then catalogued according to their intended use. These categories include surfacing materials, thermal system insulation, and miscellaneous materials. Surfacing materials include sprayed or troweled-on fireproofing, acoustical, and decorative insulation, as well as insulations used for condensate control. Thermal system insulation, or TSI, includes pipe lagging, boiler and hot water storage tank insulation, and insulation on duct, pumps, heat exchangers, or other equipment. Miscellaneous suspect materials include interior building materials on structural components, structure members, or fixtures, such as floor and ceiling tiles, asbestos-cement board, and flue pipes, that did not fall into one of the previously mentioned categories.
5. Bulk sampling was conducted in accordance with United States Environmental Protection Agency (USEPA) Asbestos Hazard Emergency Response Act (AHERA) and USEPA National Emission Standards for Hazardous Air Pollutants (NESHAP) protocols. These procedures required a random method, which was used to select sampling locations from each homogeneous sampling area. A

homogeneous area is defined as an area of surfacing material, thermal system insulation material, or miscellaneous material that is uniform in color and texture.

6. Bulk samples were transported to the analytical laboratory where they were logged in and assigned a unique laboratory identification number.

All samples were analyzed for asbestos content by polarized light microscopy (PLM) using the "Interim Method for the Determination of Asbestos in Bulk Insulation Samples" found at Appendix A to Subpart F in EPA 600/M-4-020. In this method the presence of asbestos in a sample was determined by optical mineralogy using a light microscope with two polarizing filters. Asbestos identification was achieved by examining the morphology and optical properties of the sample. The optical properties include the color under dispersion staining, birefringence, extinction characteristic, and the sign of elongation.

Quantification was obtained by visual estimation. This method may be used for the analysis of samples containing from 0 to 100 percent asbestos. The lower limit of detection is less than 1 percent. The upper detection limit is 100 percent. Results are reported as percent asbestos by type (e.g. chrysotile, crocidolite). Additional information such as other fibrous components in the sample and the non-fibrous sample matrix may also be supplied, if available.

7. This survey report does not intend to acknowledge, imply, or warrant the inspection for Asbestos Containing Building Materials in areas not normally considered readily accessible through standard survey protocol. These areas include, but are not limited to:
  - Inaccessible spaces below floor levels
  - Materials below ground surfaces
  - Materials in areas considered inaccessible or unsafe

## 1.6 BULK SAMPLE ANALYSIS

All bulk sample analysis was performed by National Voluntary Laboratory Accreditation Program (NVLAP) accredited CEI Labs Inc., 730 SE Maynard Road, Cary, NC 27511, via Polarized Light Microscopy (PLM) coupled with dispersion staining in general accordance with EPA 600/M-4-020. A copy of the laboratory results can be found in Appendix A. Summary results were as follows:

SAMPLE #	HA	LOCATION	SAMPLE TYPE	RESULT
1	A	Roof	Foam/built up roofing	NAD

SAMPLE #	HA	LOCATION	SAMPLE TYPE	RESULT
2	A	Roof	Foam/built up roofing	NAD
3	A	Roof	Foam/built up roofing	NAD
4	B	Roof penthouse	Foamglass TSI	NAD
5	B	Roof penthouse	Foamglass TSI	NAD
6	B	Roof penthouse	Foamglass TSI	NAD
7	C	3rd floor	Tectum deck	NAD
8	C	3rd floor	Tectum deck	NAD
9	C	3rd floor	Tectum deck	NAD
10	D	Roof	Rock facade	NAD
11	D	Roof	Rock facade	NAD
12	D	Roof	Rock facade	NAD
13	E	Roof	Rock facade caulking	NAD
14	E	Roof	Rock facade caulking	NAD
15	E	Roof	Rock facade caulking	NAD
16	F	Exterior	Panel caulking	NAD
17	F	Exterior	Panel caulking	NAD
18	F	Exterior	Panel caulking	NAD
19	G	Exterior	Window/door caulking	NAD
20	G	Exterior	Window/door caulking	NAD
21	G	Exterior	Window/door caulking	NAD
22	H	Exterior	Grey block exterior	NAD
23	H	Exterior	Grey block exterior	NAD
24	H	Exterior	Grey block exterior	NAD
25	I	3rd floor	Carpet adhesive	NAD
26	I	2nd floor	Carpet adhesive	NAD
27	I	1st floor	Carpet adhesive	NAD
28	J	3rd floor breakroom	Sink undercoating	NAD
29	J	2nd floor breakroom	Sink undercoating	NAD
30	K	3rd floor hallway	18" grey floor tile	NAD
31	K	3rd floor hallway	18" grey floor tile	NAD
32	L	3rd floor storage	12" mauve floor tile	NAD
33	L	3rd floor storage	12" mauve floor tile	NAD
<b>34</b>	<b>M</b>	<b>3rd floor council room</b>	<b>Ceiling texture</b>	<b>5% chrysotile</b>
<b>35</b>	<b>M</b>	<b>2nd floor atrium</b>	<b>Ceiling texture</b>	<b>5% chrysotile</b>
36	N	1st floor bathroom	Ceramic tile grout	NAD
37	N	2nd floor bathroom	Ceramic tile grout	NAD

SAMPLE #	HA	LOCATION	SAMPLE TYPE	RESULT
38	N	3rd floor bathroom	Ceramic tile grout	NAD
39	O	3rd floor hallway	12" off white floor tile	NAD
40	O	3rd floor hallway	12" off white floor tile	NAD
41	P	Roof HVAC	White duct mastic	NAD
42	P	Roof HVAC	White duct mastic	NAD
43	Q	3rd floor	Covebase	NAD
44	Q	2nd floor	Covebase	NAD
45	R	1st floor	Terrazzo	NAD
46	R	2nd floor	Terrazzo	NAD
47	R	3rd floor	Terrazzo	NAD
48	S	Exterior	Stucco	NAD
49	S	Exterior	Stucco	NAD
50	S	Exterior	Stucco	NAD
PS	T	1st, 2nd and 3rd floor	3' lay in ceiling tile	NAD
PS	U	1st, 2nd and 3rd floor	Drywall system	NAD
PS	V	1st, 2nd and 3rd floor	Plaster	NAD
PS	W	<b>1st, 2nd and 3rd floor</b>	<b>Black duct mastic</b>	<b>10% chrysotile</b>
PS	X	<b>1st, 2nd and 3rd floor</b>	<b>TSI</b>	<b>5% chrysotile</b>
PS	Y	<b>Upper level service</b>	<b>12" white floor tile/ mastic</b>	<b>3-10% chrysotile</b>

NAD- no asbestos detected

## 1.7 HAZARD ASSESSMENT

Sample results indicated that the following materials contained asbestos minerals:

ACM DESCRIPTION	LOCATION	APPROXIMATE QUANTITY	NF/F	CAT. I/II	RACM Y/N
Black duct mastic	Throughout 1st, 2nd and 3rd floors	6,000 sf	NF	I	N
12" white floor tile and mastic	Throughout 1st, 2nd and 3rd floors	25,000 sf	NF	I	N
TSI	Pipe chases	250 lf	NF	I	N

ACM DESCRIPTION	LOCATION	APPROXIMATE QUANTITY	NF/F	CAT. I/II	RACM Y/N
Ceiling texture	Throughout 1st, 2nd and 3rd floors	8,500 sf	F		Y

## 1.8 SYNOPSIS & RECOMMENDATIONS

A preliminary site inspection determined the following building components to be suspect asbestos-containing materials:

- Roofing • Vinyl flooring (several types) • Caulking • Ceiling texture • Ceiling tiles

Laboratory analysis of representative samples for these materials determined that several building materials contained asbestos minerals. Materials identified as Category I Non-RACM that will remain in good condition during the proposed demolition/renovation activities may often remain in place during demolition/renovation. Any materials that are Category II Non-RACM or RACM or those materials that may be rendered RACM (i.e., crumbled, pulverized, or reduced to powder by the forces expected to act upon the materials during demolition/renovation) must be removed prior to any activities that will affect these materials by a Florida Licensed Asbestos Contractor. It is the contractor's responsibility to be aware of those regulations specific to the removal and disposal of ACM and ensure compliance with them. It is recommended that on-site observation of the proposed abatement or demolition processes be performed under the direction of a Florida Licensed Asbestos Consultant. A copy of this report must be present on site during any scheduled operation. This survey document is not intended as a bid document or specification for abatement.

In conclusion, it is clearly understood that IBC does not intend this report to be representative of all potential Asbestos Containing Material (ACM) in this facility and is strictly limited to the materials tested and the limitations of the laboratory testing technology methods.

**Respectfully Submitted,**  
***IBC ENGINEERING-ENVIRONMENTAL & CONSTRUCTION, LLC***

Oris L. Voigtmann, CSP, FLAC AX67



## ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

**Client:** IBC Engineering-Environmental  
N8W22195 Johnson Drive, Ste. 180  
Waukesha, WI 53186

**Lab Code:** A196605  
**Date Received:** 03-26-19  
**Date Analyzed:** 03-28-19  
**Date Reported:** 03-29-19

**Project:** 112 S. Osceola Dr.

### ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS			ASBESTOS %
			Fibrous	Non-Fibrous		
01 Layer 1 A93297	Roofing	Heterogeneous		95%	Foam	None Detected
		Yellow		5%	Paint	
		Non-fibrous				
		Bound				
Layer 2 A93297	Roofing	Heterogeneous	40%	Fiberglass	50%	None Detected
		Black			10%	
		Fibrous				
		Bound				
02 Layer 1 A93298	Roofing	Heterogeneous		95%	Foam	None Detected
		Yellow		5%	Paint	
		Non-fibrous				
		Bound				
Layer 2 A93298	Roofing	Heterogeneous	40%	Fiberglass	50%	None Detected
		Black			10%	
		Fibrous				
		Bound				
03 Layer 1 A93299	Roofing	Heterogeneous		95%	Foam	None Detected
		Yellow		5%	Paint	
		Non-fibrous				
		Bound				
Layer 2 A93299	Roofing	Heterogeneous	40%	Fiberglass	50%	None Detected
		Black			10%	
		Fibrous				
		Bound				
04 Layer 1 A93300	TSI	Heterogeneous	30%	Cellulose	10%	None Detected
		Silver,White			60%	
		Non-fibrous				
		Bound				



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			Fibrous	Non-Fibrous		
Layer 2 A93300	Foamglass	Heterogeneous Black Non-fibrous Bound		100% Foam		None Detected
05 A93301	Foamglass	Heterogeneous White,Black Non-fibrous Bound		95% Foam 5% Paint		None Detected
06 A93302	Foamglass	Heterogeneous White,Black Non-fibrous Bound		95% Foam 5% Paint		None Detected
07 A93303	Tectum Deck	Heterogeneous White,Tan Fibrous Bound	80%	Cellulose 20% Binder		None Detected
08 A93304	Tectum Deck	Heterogeneous White,Tan Fibrous Bound	80%	Cellulose 20% Binder		None Detected
09 A93305	Tectum Deck	Heterogeneous White,Tan Fibrous Bound	80%	Cellulose 20% Binder		None Detected
10 A93306	Rock Facade	Heterogeneous White Non-fibrous Bound		60% Binder 40% Silicates		None Detected



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			Fibrous	Non-Fibrous		
11 A93307	Rock Facade	Heterogeneous White Non-fibrous Bound		60% 40%	Binder Silicates	None Detected
12 A93308	Rock Facade	Heterogeneous White Non-fibrous Bound		60% 40%	Binder Silicates	None Detected
13 A93309	Rock Facade Caulking	Heterogeneous White Fibrous Bound	10%	Cellulose 90%	Caulk	None Detected
14 A93310	Rock Facade Caulking	Heterogeneous White Fibrous Bound	10%	Cellulose 90%	Caulk	None Detected
15 A93311	Panel Caulking	Heterogeneous Gray Non-fibrous Bound		100%	Caulk	None Detected
16 A93312	Panel Caulking	Heterogeneous Gray Non-fibrous Bound		100%	Caulk	None Detected
17 A93313	Panel Caulking	Heterogeneous Gray Non-fibrous Bound		100%	Caulk	None Detected



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Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS	ASBESTOS %	
			Fibrous	Non-Fibrous	
18 A93314	Panel Caulking	Heterogeneous Gray Non-fibrous Bound	100%	Caulk	None Detected
19 A93315	Window Caulking	Heterogeneous Gray Non-fibrous Bound	100%	Caulk	None Detected
20 A93316	Window Caulking	Heterogeneous Gray Non-fibrous Bound	100%	Caulk	None Detected
21 A93317	Window Caulking	Heterogeneous Gray Non-fibrous Bound	100%	Caulk	None Detected
22 A93318	Block Exterior	Heterogeneous Gray Non-fibrous Bound	60% 40%	Binder Silicates	None Detected
23 A93319	Block Exterior	Heterogeneous Gray Non-fibrous Bound	60% 40%	Binder Silicates	None Detected
24 A93320	Block Exterior	Heterogeneous Gray Non-fibrous Bound	60% 40%	Binder Silicates	None Detected



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Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS			ASBESTOS %
			Fibrous	Non-Fibrous		
25 A93321	Carpet Adhesive	Heterogeneous Tan Non-fibrous Bound		80% 20%	Binder Calc Carb	None Detected
26 A93322	Carpet Adhesive	Heterogeneous Tan Non-fibrous Bound		80% 20%	Binder Calc Carb	None Detected
27 A93323	Carpet Adhesive	Heterogeneous Tan Non-fibrous Bound		80% 20%	Binder Calc Carb	None Detected
28 A93324	Sink Undercoating	Heterogeneous White Fibrous Bound	40%	Cellulose 20%	40% Binders Calc Carb	None Detected
29 A93325	Sink Undercoating	Heterogeneous White Fibrous Bound	40%	Cellulose 20%	Binders Calc Carb	None Detected
30 A93326	Floor Tile	Heterogeneous Gray Non-fibrous Bound		70% 30%	Vinyl Calc Carb	None Detected
31 A93327	Floor Tile	Heterogeneous Gray Non-fibrous Bound		70% 30%	Vinyl Calc Carb	None Detected



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			Fibrous	Non-Fibrous		
32 A93328A	Floor Tile	Heterogeneous Pink Non-fibrous Bound		70% 30%	Vinyl Calc Carb	None Detected
A93328B	Mastic	Heterogeneous Tan Fibrous Bound	20%	Cellulose	80% Mastic	None Detected
33 A93329	Floor Tile	Heterogeneous Pink Non-fibrous Bound		70% 30%	Vinyl Calc Carb	None Detected
34 A93330	Ceiling Texture	Heterogeneous White Fibrous Bound		30% 60% 5%	Binder Perlite Paint	<b>5% Chrysotile</b>
35 A93331	Ceiling Texture	Heterogeneous White Fibrous Bound		30% 60% 5%	Binder Perlite Paint	<b>5% Chrysotile</b>
36 A93332	Grout	Heterogeneous White Non-fibrous Bound		98% 2%	Binder Silicates	None Detected
37 A93333	Grout	Heterogeneous White Non-fibrous Bound		98% 2%	Binder Silicates	None Detected



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			Fibrous	Non-Fibrous		
38 A93334	Grout	Heterogeneous White Non-fibrous Bound	98%	Binder Silicates		None Detected
39 A93335A	Floor Tile	Heterogeneous Off-white Non-fibrous Bound	80% 20%	Vinyl Calc Carb		None Detected
A93335B	Mastic	Heterogeneous Yellow Non-fibrous Bound	70% 30%	Mastic Silicates		None Detected
40 A93336A	Floor Tile	Heterogeneous Off-white Non-fibrous Bound	80% 20%	Vinyl Calc Carb		None Detected
A93336B	Mastic	Heterogeneous Yellow Non-fibrous Bound	70% 30%	Mastic Silicates		None Detected
41 A93337	Duct Mastic	Heterogeneous White Fibrous Bound	10% 15%	Fiberglass Cellulose	55% 20%	Mastic Metal Foil
42 A93338A	Duct Mastic	Heterogeneous White Fibrous Bound	10% 15%	Fiberglass Cellulose	55% 20%	Mastic Metal Foil



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			Fibrous	Non-Fibrous	
43 A93339A	Covebase	Heterogeneous Black Fibrous Bound		100% Vinyl	None Detected
A93339B	Mastic	Heterogeneous Brown Fibrous Bound	10%	Talc 90% Mastic	None Detected
44 A93340A	Covebase	Heterogeneous Black Fibrous Bound		100% Vinyl	None Detected
A93340B	Mastic	Heterogeneous Brown Fibrous Bound	10%	Talc 90% Mastic	None Detected
45 A93341	Terrazzo	Heterogeneous Gray Non-fibrous Bound		60% Binder 40% Silicates	None Detected
A93342	Terrazzo	Heterogeneous Gray Non-fibrous Bound		60% Binder 40% Silicates	None Detected
47 A93343	Terrazzo	Heterogeneous Gray Non-fibrous Bound		60% Binder 40% Silicates	None Detected



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			Fibrous	Non-Fibrous	
48 A93344	Stucco	Heterogeneous	55%	Binder	None Detected
		Gray	40%	Silicates	
		Non-fibrous	5%	Paint	
		Bound			
49 A93345	Stucco	Heterogeneous	55%	Binder	None Detected
		Gray	40%	Silicates	
		Non-fibrous	5%	Paint	
		Bound			
50 A93346	Stucco	Heterogeneous	55%	Binder	None Detected
		Gray	40%	Silicates	
		Non-fibrous	5%	Paint	
		Bound			



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**LEGEND:**

Non-Anth	= Non-Asbestiform Anthophyllite
Non-Trem	= Non-Asbestiform Tremolite
Calc Carb	= Calcium Carbonate

---

**METHOD:** EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

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**REPORTING LIMIT:** <1% by visual estimation

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**REPORTING LIMIT FOR POINT COUNTS:** 0.25% by 400 Points or 0.1% by 1,000 Points

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**REGULATORY LIMIT:** >1% by weight

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Due to the limitations of the EPA 600 method, nonfriable organically bound materials (NOBs) such as vinyl floor tiles can be difficult to analyze via polarized light microscopy (PLM). EPA recommends that all NOBs analyzed by PLM, and found not to contain asbestos, be further analyzed by Transmission Electron Microscopy (TEM). Please note that PLM analysis of dust and soil samples for asbestos is not covered under NVLAP accreditation. *Estimated measurement of uncertainty is available on request.*

This report relates only to the samples tested or analyzed and may not be reproduced, except in full, without written approval by Eurofins CEI. Eurofins CEI makes no warranty representation regarding the accuracy of client submitted information in preparing and presenting analytical results. Interpretation of the analytical results is the sole responsibility of the client. Samples were received in acceptable condition unless otherwise noted. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government.

Information provided by customer includes customer sample ID, location, volume and area as well as date and time of sampling.

**ANALYST:**

Cassidy Ploch

Cassidy Ploch

**APPROVED BY:**

Tianbao Bai

Tianbao Bai, Ph.D., CIH

Laboratory Director

Candace Burrus

Candace Burrus



SAMPLE TRANSMITTAL  
 IBC ENGINEERING-ENVIRONMENTAL & CONSTRUCTION, LLC  
 8875 Hidden River Parkway, Suite 300  
 Tampa, FL 33637

A196605 (50)  
 A93297, A93346

PROJECT 112 S. Osceola Dr.  
 PROJECT #

TURN AROUND 72 hour

SAMPLE #	LOCATION	SAMPLE TYPE	COMMENTS
01	Roof	foam over tar	
02	"	"	
03	"	"	
04	" Penthouse	foamglass TS1	
05	" "	"	
06	" "	"	
07	3rd floor	textrum deck	
08	"	"	
09	"	"	
10	Roof	Rock facade	
11	"	"	
12	"	"	
13	"	Rock facade caulk	
14	"	"	
15	"	"	
16	exterior	Panel caulk	
17	"	"	
18	"	"	
19	"	window/door caulk	
20	"	"	
21	"	"	
22	"	grey block exterior	
23	"	"	
24	"	"	
25	3rd floor	Carpet adhesive	
26	2nd floor	"	
27	1st floor	"	
28	3rd floor bathroom	Sink undercoating	

CHAIN OF CUSTODY

Sampled by: Orlando

Date: 3/19/20/19

Received by: KC

Date: 3/26/19 9:20AM

EUROFINS CEI, INC  
 SAMPLES ACCEPTED

KC

A196605

## SAMPLE TRANSMITTAL

**IBC ENGINEERING-ENVIRONMENTAL & CONSTRUCTION, LLC**

HO ENGINEERING ENVIRONMENT  
8875 Hidden River Parkway, Suite 300

8875 Indian River  
Tampa, FL 33637

PROJECT

**PROJECT**

TURN AROUND

**CHAIN OF CUSTODY**

Sampled by: \_\_\_\_\_ Date: \_\_\_\_\_

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

**OCCUPATIONAL HEALTH CONSERVATION, INC.**  
**5118 NORTH 56th STREET, SUITE 215**  
**TAMPA, FLORIDA 33610**

Project Name: Clearwater City Hall  
 112 S. Osceola Avenue  
 Clearwater, Florida

OHC Project No.: 940822

Date Received: June 8, 1994

LAB NUMBER	CLIENT NUMBER	IDENTIFICATION	DESCRIPTION	ASBESTOS PERCENTAGE	NON-ASBESTOS FIBERS PERCENTAGE	BINDERS
15057	1A	Pipe Jacket	black, fibrous	5% Chrysotile	20% Glass Fibers	75% Bitumen and Binders
15058	1B	Pipe Jacket	black, fibrous	0% Chrysotile	20% Glass Fibers	75% Bitumen and Binders
15060	2A	Pipe Mastic	black, fibrous	5% Chrysotile		95% Bitumen and Binders
15063	3A	Duct Wrap	white layer	NAD	100% Cellulose	
			brown layer	NAD	100% Cellulose	
			black layer	10% Chrysotile		90% Bitumen and Binders
15066	4A	Duct Mastic	black, fibrous	14% Chrysotile	25% Glass Fibers	61% Bitumen and Binders
15068	5A	Expansion Gasket	gray, fibrous	NAD	30% Synthetic	70% Binders
15069	5B	Expansion Gasket	gray, fibrous	NAD	30% Synthetic	70% Binders
15070	6A	Tape Wrap	black, fibrous	12% Chrysotile		80% Bitumen and Binders
15072	7A	12x12 Floor Tile	tile layer	2% Chrysotile		98% Carbonate & Binders
			mastic	5% Chrysotile	10% Cellulose	95% Bitumen and Binders
15075	8A	Baseboard	black	NAD		100% Carbonate & Binders
15076	8B	Baseboard	black	NAD		100% Carbonate & Binders
15077	9A	Gink Barrier	black	4% Chrysotile		96% Bitumen and Binders
15079	10A	3x3 Ceiling Tile	white, fibrous	NAD	20% Cellulose 40% Mineral Wool	40% Perlite
15080	10B	3x3 Ceiling Tile	white, fibrous	NAD	20% Cellulose 40% Mineral Wool	40% Perlite
15081	10C	3x3 Ceiling tile	white, fibrous	NAD	20% Cellulose 40% Mineral Wool	40% Perlite
15082	11A	Ceiling Spray	white, fibrous	8% Chrysotile		65% Perlite 27% Binders
15086	12A	3x3 Ceiling Tile	tan, fibrous	NAD	80% Cellulose 20% Mineral Wool	
15087	12B	3x3 Ceiling Tile	tan, fibrous	NAD	80% Cellulose 20% Mineral Wool	
15088	12C	3x3 Ceiling Tile	tan, fibrous	NAD	80% Cellulose 20% Mineral Wool	
15089	13A	Plaster	white, grainy	NAD		100% Quartz and Binders

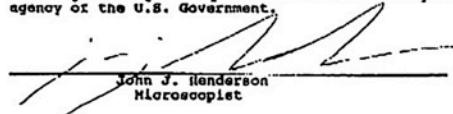
Project Name: Clearwater City Hall  
112 S. Osceola Avenue

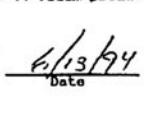
ONC Project No.: 940822

LAB NUMBER	CLIGHT NUMBER	IDENTIFICATION	DESCRIPTION	ASBESTOS PERCENTAGE	NON-ASBESTOS FIBERS PERCENTAGE	BINDERS
15090	13B	Plaster	white, grainy	NAD		100% Quartz and Binders
15091	14A	Wallboard	mat layer	NAD	90% Cellulose	10% Carbonate & Binders
			powder layer	NAD	2% Glass Fibers 2% Cellulose	98% Gypsum and Binders
15092	14D	Wallboard	plaster	NAD		100% Carbonate & Binders
			mat layer	NAD	90% Cellulose 10% Glass Fibers	
			powder layer	NAD	2% Glass Fibers 2% Cellulose	98% Gypsum and Binders

NAD = No Asbestos Detected

Samples were analyzed by Henderson/Longfellow Associates, Inc. of Valrico, Florida (NVLAP #2077) in general accordance with EPA 600/W-4-020 and relate only to items analyzed. Percentages were visually estimated; point count method was not utilized. Analysis was conducted with Polarized Light Microscopy coupled with dispersion staining technique. Report shall not be used by client to claim product endorsement by NIST/NVLAP or any other agency of the U.S. Government.

  
John J. Henderson  
Microscopist

  
Date  
6/13/94

# OCCUPATIONAL HEALTH CONSEVATION, INC.

## Chain of Custody

OHC Project # : 940822 Date : 6/7/94

Project Facility : Clearwater City Hall

Address : 112 S Osceola Ave Clearwater FL

Transported by : Robert Protos

## Sample Information:

Number of Samples: 36

Sample Type :  Bulk      Air      Wipe      Dust

Other : Take if one sample is past do not read the other samples

Laboratory :

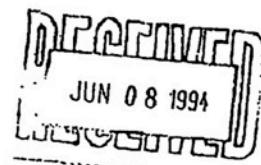
Type of Analysis Requested : \_\_\_\_\_ Results Needed by : \_\_\_\_\_

Received By : Lina Gandy

Analyst : J. Henderson

Analyst Signature : [Signature]

OHC: AS-3 (4/16/94)



**OCCUPATIONAL HEALTH CONSERVATION, INC.**  
**5118 NORTH 56th STREET, SUITE 215**  
**TAMPA, FLORIDA 33610**

Project Name: Clearwater City Hall  
 Third Floor  
 112 S. Osceola Avenue  
 Clearwater, FL

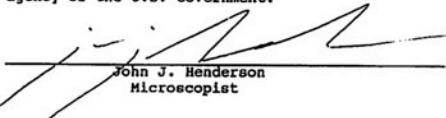
OHC Project No.: 940619

Date Received: May 15, 1994

LAB NUMBER	CLIENT NUMBER	IDENTIFICATION	DESCRIPTION	ASBESTOS PERCENTAGE	NON-ASBESTOS FIBERS PERCENTAGE	BINDERS
09480	1A	12X12 Floor Tile	tile	4% Chrysotile		96% Carbonate & Binders
			mastic	10% Chrysotile		90% Bitumen and Binders
09483	2A	Wall Plaster	white, grainy	NAD		100% Quartz and Binders
09484	2B	Wall Plaster	white, grainy	NAD		100% Quartz and Binders
09485	3A	Ceiling Plaster	tan, fibrous	15% Chrysotile		40% Perlite 45% Binders
09488	4A	Baseboard	black	NAD		100% Carbonate & Binders
09489	4B	Baseboard	black	NAD		100% Carbonate & Binders
09490	5A	Duct Mastic	black, fibrous	10% Chrysotile	5% Glass Fibers 20% Mineral Wool	20% Poil 45% Bitumen and Binders
09492	6A	Wallboard	plaster	NAD		100% Carbonate & Binders
			mat	NAD	100% Cellulose	
			powder	NAD	6% Cellulose	94% Gypsum and Binders
09493	6B	Wallboard	white	NAD		100% Carbonate & Binders
09494	6C	Wallboard	mat	NAD	100% Cellulose	
			powder	NAD	6% Cellulose	94% Gypsum and Binders

NAD = No Asbestos Detected

Samples were analyzed by Henderson/Longfellow Associates, Inc. of Valrico, Florida (NVLAP #2077) in general accordance with EPA 600/M-4-020 and relate only to items analyzed. Percentages were visually estimated; point count method was not utilized. Analysis was conducted with Polarized Light Microscopy coupled with dispersion staining technique. Report shall not be used by client to claim product endorsement by NIST/NVLAP or any other agency of the U.S. Government.

  
 John J. Henderson  
 Microscopist

  
 Date

OCCUPATIONAL HEALTH CONSERVATION, INC.

CHAIN OF CUSTODY

PROJECT NAME: Clearwater City Hall 3rd fl  
 LOCATION: 112 S Osceola Ave Clearwater FL  
 PROJECT #: 940619SA

SAMPLE NUMBER	DESCRIPTION	LOCATION	COMMENTS
1 ABC	12x12ft white	Throughout	
2 A B	wall plaster	" "	
3 A B C	ceiling plaster	" "	
4 A B	baseboard	" "	
5 A B	duct mastic	" "	
6 ABC	wall board	New partition wall	

SUBMITTED BY: Robert Pritchett  
 DATE: 5-12-94  
 COMPANY: OHC

RECEIVED BY: MM  
 ANALYZED BY: JW  
 LAB NVLAP #: 2077



RICK SCOTT, GOVERNOR

JONATHAN ZACHEM, SECRETARY



**STATE OF FLORIDA  
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION**

**ASBESTOS LICENSING UNIT**

THE ASBESTOS CONSULTANT HEREIN IS LICENSED UNDER THE  
PROVISIONS OF CHAPTER 469, FLORIDA STATUTES

**VOIGTMANN, ORIS LEE**

IBC ENGINEERING ENVIRONMENTAL CONSTRUCTION LLC  
30949 SATINLEAF LANE  
WESLEY CHAPEL FL 33543

LICENSE NUMBER: AX67

EXPIRATION DATE: NOVEMBER 30, 2020

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

This is to Certify that  
Orie Voigtmann

Has completed the requisite training for asbestos accreditation  
under TSCA TITLE II  
Date of Examination 7/22/2018

Date of Course: 7/22/2018 Expiration Date 7/22/2019  
Certificate # 07221801AM  
Course # FL49-0006322 Provider # FL49-0003810

Orie Voigtmann

Instructor

**University of North Florida**  
DIVISION OF CONTINUING EDUCATION & EXTENSION  
and the  
ENVIRONMENTAL EDUCATION & SAFETY INSTITUTE

Training provided by University of North Florida • 4567 St. Johns Bluff Road, South  
Jacksonville, Florida 32216 • (904) 646-2690

Certify that

ROBERT P. PROVOST  
has successfully completed the certificate requirements for  
ASBESTOS INSPECTOR/MANAGEMENT PLANNER REFRESHER  
and in evidence thereof is awarded this

**Certificate of Completion**

on the 14th day of August, 1993

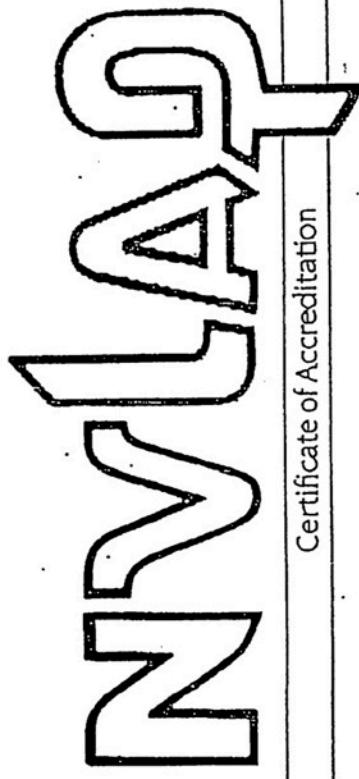
*Marcelle Lovett*  
MARCELLE C. LOVETT  
Dean

*Elaine Purnell*  
ELAINE PURNELL  
Program Coordinator

*James E. Kelley*  
JAMES E. KELLEY  
Director

PASSED EXAM: 08/14/93 ACCREDITATION EXPIRES: 08/14/94 Certificate No. 3676

United States Department of Commerce  
National Institute of Standards and Technology



Certificate of Accreditation

HENDERSON/LONGFELLOW ASSOCIATES, INC.  
VALRICO, FL

is recognized under the National Voluntary Laboratory Accreditation Program  
for satisfactory compliance with criteria established in Title 15, Part 7 Code of Federal Regulations.  
Accreditation is awarded for specific services listed on the Scope of Accreditation, for:

BULK ASBESTOS FIBER ANALYSIS



January 1, 1995  
Effective until

NVLAP LAB CODE: 2077