



ambient group inc.

Indoor environmental quality surveys
Water treatment consulting
Asbestos & lead field services
Regulatory compliance programs
Air, water & soil analytical laboratories

NATIONAL HEADQUARTERS

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October 22, 2001

Mr. Elliot Zuckerman
Cushman & Wakefield
a/a/f Mercantile Exchange
One North End Avenue
New York, New York 10282

**Re: One North End Avenue
Ambient Project # 211338**

Dear Mr. Zuckerman:

The following is a summary of the indoor environmental quality survey that Ambient Group, Inc. performed on September 16th, 2001 at the above referenced location. The survey included sampling for airborne metals, carbon dioxide, carbon monoxide, temperature, relative humidity, polynuclear aromatic hydrocarbons and airborne asbestos structures by TEM.

Analysis of all indoor readings for carbon dioxide and carbon monoxide revealed that all indoor readings were below OSHA, ACGIH, ASHRAE and other recommended industry guidelines and/or regulations.

The indoor temperature readings ranged from 66.0°F to 69.6°F. The indoor relative humidity readings ranged from 53.4% to 60.7%. All indoor relative humidity readings were consistent with the conditions described in the ASHRAE 55-1992 thermal comfort standard as well as ideal indoor conditions. The indoor temperature readings were slightly below the ASHRAE 55-1992 thermal standard for fall/winter months (69°F - 76°F).

Four (4) TEM samples were collected from floors 3, 7, 11 and from the lobby and analyzed by transmission electron microscopy (TEM) for asbestos structures. The results of the analysis indicated that airborne asbestos levels inside and outside the building at the time of testing were less than the analytical sensitivity of the instrument, which is well below the EPA standard of 70 structures/mm² as well as other recommended industry guidelines and/or regulations.

Four (4) air samples were collected from floors 3, 7, 11 and from the lobby and analyzed for polynuclear aromatic hydrocarbons in air. Analysis of all four (4) samples collected revealed that the levels of the individual compounds were below the OSHA Permissible Exposure Limits and NIOSH REL guidelines.

GREEN COVE, NY
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10/22/01 MON 17:05 [TX/RX NO 8257]

Ambient Group, Inc.
55 West 39th Street
 12th floor
 New York, New York 10018

Client: Cushman & Wakefield
a/a/f Mercantile Exchange
One North End Avenue
New York, New York 101282

Project #: 211338
Project Address: One North End Avenue
Survey Date: 10/12/01

POLYNUCLEAR AROMATIC HYDROCARBON

Sample #	Location	Analyte	Concentration (µg/m ³)	Standards/Guidelines
211338-02	12th floor/Adj. 14902	Acenaphthene Acenaphthylene Anthracene Benz (a) anthracene Benzo (a) pyrene Benzo (b) fluoranthene Benzo (ghi) perylene Benzo (k) fluoranthene Chrysene Dibenz (a,h) anthracene Fluoranthene Flourene Indeno (1,2,3-cd) pyrene Naphthalene Phenanthrene Pyrene	<20.8 <20.8 <4.2 <4.2 <4.2 <4.2 <4.2 <4.2 <4.2 <4.2 <20.8 <20.8 <4.2 <20.8 <4.2	NIOSH REL 100 µg/m ³ OSHA PEL 200 µg/m ³

REL - Recommended Exposure Limit
 PEL - Permissible Exposure Limit (8-hour time weighted average)
 NA - Not Applicable

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POLYNUCLEAR AROMATIC HYDROCARBON

Sample #	Location	Analyte	Concentration ($\mu\text{g}/\text{m}^3$)	Standards/Guidelines
211338-03	14 th floor, Room 1466	Acenaphthene Acenaphthylene Anthracene Benz (a) anthracene Benzo (a) pyrene Benzo (b) fluoranthene Benzo (ghi) perylene Benzo (k) fluoranthene Chrysene Dibenz (a,h) anthracene Fluoranthene Fluorene Indeno (1,2,3-cd) pyrene Naphthalene Phenanthrene Pyrene	<17.6 <17.6 <3.5 <3.5 <3.5 <3.5 <3.5 <3.5 <3.5 <3.5 <17.6 <17.6 <3.5 <17.5 <3.5 <3.5	NIOSH REL 100 $\mu\text{g}/\text{m}^3$ OSHA PEL 200 $\mu\text{g}/\text{m}^3$

REL - Recommended Exposure Limit
 PEL - Permissible Exposure Limit (8-hour time weighted average)
 NA - Not Applicable

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POLYNUCLEAR AROMATIC HYDROCARBON

Sample #	Location	Analyte	Concentration ($\mu\text{g}/\text{m}^3$)	Standards/Guidelines
211338-04	7 th floor/ At booth 7-8-8-A	Acenaphthene	<20.8	NIOSH REL 100 $\mu\text{g}/\text{m}^3$ OSHA PEL 200 $\mu\text{g}/\text{m}^3$
		Acenaphthylene	<20.8	
		Anthracene	<4.2	
		Benzo (a) anthracene	<4.2	
		Benzo (a) pyrene	<4.2	
		Benzo (b) fluoranthene	<4.2	
		Benzo (ghi) perylene	<4.2	
		Benzo (k) fluoranthene	<4.2	
		Chrysene	<4.2	
		Dibenz (a,h) anthracene	<4.2	
		Fluoranthene	<20.8	
		Flourene	<20.8	
		Indeno (1,2,3-cd) pyrene	<4.2	
		Napthalene	<20.8	
		Phenanthrene	<4.2	
		Pyrene	<20.8	

REL -- Recommended Exposure Limit
 PEL - Permissible Exposure Limit (8-hour time weighted average)
 NA - Not Applicable

Ambient Group, Inc.
10 Morris Avenue,
Glen Cove 11542
(516) 609-0009

ELAP 10865

**AIRBORNE ASBESTOS STRUCTURES RESULTS
(TRANSMISSION ELECTRON MICROSCOPY - TEM)**

CLIENT: CUSHMAN & WAKEFIELD, INC.
LOCATION: 1 NORTH END AVENUE
PROJECT ID: 211338
DATE COLLECTED: 10/18/01

SAMPLE NUMBER	LAB SAMPLE ID	SAMPLE LOCATION	ASBESTOS STRUCTURES cm ³
3688-01 Field 3688	AEM990 10063	12:04 PM 15 th FLOOR: AT CONFERENCE TABLE ADJACENT TO ROOM 1589 LT ANYL SENS	<0.0046
3688-02 Field 3688	AEM990 10064	12:31 PM 7 th FLOOR: AT BOOTH 7-4-1-A LT ANYL SENS	<0.0044
3688-03 Field 3688	AEM990 10065	12:42 PM 3 rd FLOOR: ADJACENT TO BOOTH 3-3-1C-1B LT ANYL SENS	<0.0050
3688-04 Field 3688	AEM990 10066	1:00 PM 2 nd FLOOR: ADJACENT TO STAIR A LT ANYL SENS	<0.0050

LT ANYL SENS=LESS THAN ANALYTICAL SENSITIVITY
ANALYTICAL SENSITIVITY=0.0047-0.0050