

**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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December 6, 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 November 29, 2001 at One North End Avenue. The survey included sampling for airborne metals (including silica scan), polynuclear aromatic hydrocarbons and airborne asbestos structures by TEM.

Four (4) air samples were collected from floors 3, 7, 9 and 11 and analyzed by transmission electron microscopy (TEM) for asbestos structures. The results of the analysis indicated that airborne asbestos levels 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, 9 and 11 and analyzed for metals in air (including silica). All measured metals revealed levels well below their respective OSHA PELs and NIOSH RELs. Levels of cristobalite and quartz detected in the silica scan were also below the NIOSH REL of 0.05 mg/m³.

Four (4) air samples were collected from floors 3, 7, 9 and 11 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.

Please refer to the attached laboratory data sheets for further details. Should you have any questions regarding this information, please feel free to call me.

Sincerely,

Signed for Ambient Group, Inc. by:

John J. Leitner
John J. Leitner
Vice President
12/06/01

JJL/nl
Attachments

GLEN COVE, NY
516 609-0009
211338

MIAMI, FL
305 860-0101

CHICAGO, IL
312 527-5526

COMBINA, CA
909 271-4730

12/06/01 THU 19:17 [TX/RX NO 8722]

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: 11/29/2001

SAMPLE NUMBER	LAB SAMPLE ID	SAMPLE LOCATION	ASBESTOS STRUCTURES cm ³
5796-01 Field 5796	AEM9901 11667	8:45 AM 7 th FLOOR: ADJACENT TO STAIR C LT ANYL SENS	<0.0042
5796-02 Field 5796	AEM9901 11668	9:00 AM 3 RD FLOOR: ADJACENT TO STAIR D LT ANYL SENS	<0.0042
5796-03 Field 5796	AEM9901 11669	10:00 AM 11 TH FLOOR: ADJACENT TO SUITE 1101 LT ANYL SENS	<0.0048
5796-04 Field 5796	AEM9901 11670	10:25 AM 9 TH FLOOR: WEST SIDE LT ANYL SENS	<0.0050

LT ANYL SENS=LESS THAN ANALYTICAL SENSITIVITY

AMBIENT GROUP, INC.
10 MORRIS AVENUE
GLEN COVE, NY 11542
ELAP # 10865

METALS IN AIR LABORATORY DATA REPORT

PROJECT ID: 211338
CLIENT: CUSHMAN & WAKEFIELD, INC.
PROJECT ADDRESS: ONE NORTH END AVENUE
DESCRIPTION: 7TH FLOOR: ADJACENT TO STAIR

COLLECTED: 11/29/01
DATE REC'D: 12/1/01
ANALYZED: 12/3/01

LABORATORY ID	FIELD ID	ANALYTE	VOLUME (L)	ug/m ³
40879	5798-01	CADMIUM	1215	0.08
		CHROMIUM	1215	0.82
		COPPER	1215	0.41
		IRON	1215	2.26
		LEAD	1215	0.70
		MANGANESE	1215	0.12
		NICKEL	1215	0.21
		ZINC	1215	0.74

Standard/Guideline:

OSHA PEL for *Cadmium*: 5ug/m³; OSHA PEL for *Chromium*: 1000ug/m³; OSHA PEL for *Copper*: 1000ug/m³; OSHA PEL for *Iron*: 10000ug/m³; OSHA PEL for *Lead*: 50ug/m³; OSHA PEL for *Manganese*: 1000ug/m³; OSHA PEL for *Nickel*: 1000ug/m³; OSHA PEL for *Zinc*: 5000ug/m³

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GLEN COVE, NY 11542
ELAP # 10865

METALS IN AIR LABORATORY DATA REPORT

PROJECT ID: 211338
CLIENT: CUSHMAN & WAKEFIELD, INC.
PROJECT ADDRESS: ONE NORTH END AVENUE
DESCRIPTION: 3RD FLOOR

COLLECTED: 11/29/01
DATE REC'D: 12/1/01
ANALYZED: 12/3/01

LABORATORY ID	FIELD ID	ANALYTE	VOLUME (L)	ug/m ³
40880	5798-02	CADMIUM	925	0.11
		CHROMIUM	925	0.76
		COPPER	925	0.54
		IRON	925	1.89
		LEAD	925	0.92
		MANGANESE	925	0.16
		NICKEL	925	0.27
		ZINC	925	0.97

Standard/Guideline:

OSHA PEL for *Cadmium*: 5ug/m³; OSHA PEL for *Chromium*: 1000ug/m³; OSHA PEL for *Copper*: 1000ug/m³; OSHA PEL for *Iron*: 10000ug/m³; OSHA PEL for *Lead*: 50ug/m³; OSHA PEL for *Manganese*: 1000ug/m³; OSHA PEL for *Nickel*: 1000ug/m³; OSHA PEL for *Zinc*: 5000ug/m³

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METALS IN AIR LABORATORY DATA REPORT

PROJECT ID: 211338
CLIENT: CUSHMAN & WAKEFIELD, INC.
PROJECT ADDRESS: ONE NORTH END AVENUE
DESCRIPTION: 11TH FLOOR: ADJACENT TO SUITE 1101

COLLECTED: 11/29/01
DATE REC'D: 12/1/01
ANALYZED: 12/3/01

LABORATORY ID	FIELD ID	ANALYTE	VOLUME (L)	ug/m ³
40881	5798-03	CADMIUM	650	0.15
		CHROMIUM	650	1.15
		COPPER	650	0.77
		IRON	650	1.62
		LEAD	650	1.31
		MANGANESE	650	0.23
		NICKEL	650	0.38
		ZINC	650	1.38

Standard/Guideline:

OSHA PEL for Cadmium: 5ug/m³; OSHA PEL for Chromium: 1000ug/m³; OSHA PEL for Copper: 1000ug/m³; OSHA PEL for Iron: 10000ug/m³; OSHA PEL for Lead: 50ug/m³; OSHA PEL for Manganese: 1000ug/m³; OSHA PEL for Nickel: 1000ug/m³; OSHA PEL for Zinc: 5000ug/m³

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METALS IN AIR LABORATORY DATA REPORT

PROJECT ID: 211338
CLIENT: CUSHMAN & WAKEFIELD, INC.
PROJECT ADDRESS: ONE NORTH END AVENUE
DESCRIPTION: 9TH FLOOR; ADJACENT TO WESTSIDE

COLLECTED: 11/29/01
DATE REC'D: 12/1/01
ANALYZED: 12/3/01

LABORATORY ID	FIELD ID	ANALYTE	VOLUME (L)	ug/m ³
40882	5798-04	CADMIUM	915	0.11
		CHROMIUM	915	0.87
		COPPER	915	0.55
		IRON	915	1.48
		LEAD	915	0.93
		MANGANESE	915	0.16
		NICKEL	915	0.27
		ZINC	915	0.98

Standard/Guideline:

OSHA PEL for *Cadmium*: 5ug/m³; OSHA PEL for *Chromium*: 1000ug/m³; OSHA PEL for *Copper*: 1000ug/m³; OSHA PEL for *Iron*: 10000ug/m³; OSHA PEL for *Lead*: 50ug/m³; OSHA PEL for *Manganese*: 1000ug/m³; OSHA PEL for *Nickel*: 1000ug/m³; OSHA PEL for *Zinc*: 5000ug/m³

12/06/01 THU 19:17 [TX/RX NO 8722]

Ambient Group, Inc.
55 West 39th St., 12 Fl.
New York, New York 10018

Client: Cushman & Wakefield/Mercantile Exchange
One North End Avenue
New York, New York 10282

Project ID # 211338
Project Address: One North End Avenue
Survey Date: November 29, 2001

RESULTS OF SILICA SCAN

Floor/Location	Concentrations Reported In mg/m ³		Standard/Guidelines
	Cristobalite	Quartz	
7th floor/Adj. to stair "C"	<0.009	<0.009	NIOSH 0.05 mg/m ³
3rd floor/adj. to stair "D"	<0.01	<0.01	
11th floor/Adj. to suite 1101	<0.01	<0.01	
9th floor/Vest side	<0.01	<0.01	

All levels reported are below their associated standards and guidelines.

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New York, New York 10018

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a/k/a Mercantile Exchange
One North End Avenue
New York, New York 101282

Project #: 211338
Project Address: One North End Avenue
Survey Date: 11/29/01

POLYNUCLEAR AROMATIC HYDROCARBON

Sample #	Location	Analyte	Concentration ($\mu\text{g}/\text{m}^3$)	Standards/Guidelines
211338-01	7 th floor/adj. to stair "C"	Acenaphthene Acenaphthylene Anthracene Benz (a) anthracene Benzo (a) pyrene Benzo (b) fluoranthene Benzo (ghi) perylene Benzo (k) fluoranthene Chrysene Dibenzo (a,h) anthracene Fluoranthene Flourene Indeno (1,2,3-cd) pyrene Naphthalene Phenanthrene Pyrene	<7.9 <7.9 <1.6 <1.6 <1.6 <1.6 <1.6 <1.6 <1.6 <1.6 <7.9 <7.9 <1.6 <7.9 <1.6	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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Project #: 211338
Project Address: One North End Avenue
Survey Date: 11/29/01

POLYNUCLEAR AROMATIC HYDROCARBON

Sample #	Location	Analyte	Concentration ($\mu\text{g}/\text{m}^3$)	Standards/Guidelines
211338-02	3 rd floor/adj. to stair "D"	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	<8.1 <8.1 <1.6 <1.6 <1.6 <1.6 <1.6 <1.6 <1.6 <8.1 <8.1 <1.6 <8.1 <1.6	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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Project #: 211338
Project Address: One North End Avenue
Survey Date: 11/29/01

POLYNUCLEAR AROMATIC HYDROCARBON

Sample #	Location	Analyte	Concentration ($\mu\text{g}/\text{m}^3$)	Standards/Guidelines
211338-03	11 th floor/adj. to suite 1101	Acenaphthene Acenaphthylene Anthracene Benzo (a) anthracene Benzo (a) pyrene Benzo (b) fluoranthene Benzo (ghi) perylene Benzo (k) fluoranthene Chrysene Dibenzo (a,h) anthracene Fluoranthene Flourene Indeno (1,2,3-cd) pyrene Naphthalene Phenanthrene Pyrene	<8.2 <8.2 <1.6 <1.6 <1.6 <1.6 <1.6 <1.6 <1.6 <8.2 <8.2 <1.6 <8.2 <1.6	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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Survey Date: 11/29/01

POLYNUCLEAR AROMATIC HYDROCARBON

Sample #	Location	Analyte	Concentration (µg/m ³)	Standards/Guidelines
211338-04	9 th floor/west side	Acenaphthene	<10.6	NIOSH REL 100 µg/m ³ OSHA PEL 200 µg/m ³
		Acenaphthylene	<10.6	
		Anthracene	<2.1	
		Benzo (a) anthracene	<2.1	
		Benzo (a) pyrene	<2.1	
		Benzo (b) fluoranthene	<2.1	
		Benzo (ghi) perylene	<2.1	
		Benzo (k) fluoranthene	<2.1	
		Chrysene	<2.1	
		Dibenz (a,h) anthracene	<2.1	
		Fluoranthene	<10.6	
		Flourene	<10.6	
		Indeno (1,2,3-cd) pyrene	<2.1	
		Napthalene	<10.6	
		Phenanthrene	<2.1	
		Pyrene	<2.1	

REL - Recommended Exposure Limit

PEL - Permissible Exposure Limit (8-hour time weighted average)

NA - Not Applicable