



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 7, 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 December 4, 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, 10 and 12 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, 10 and 12 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, 10 and 12 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:

Neelha Jivanifor
John J. Leitner
Vice President
12/7/01

JJ/nl
Attachments

CHIN COVE, NY
516 609-0009
211338

MIAMI, FL
305 860-0101

CHICAGO, IL
312 527-5526

LOS ANGELES, CA
909 272-4710

12/07/01 FRI 18:26 [TX/RX NO 8736]

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: 12/04/2001

SAMPLE NUMBER	SAMPLE LOCATION	ASBESTOS STRUCTURES cm ³
6440-01 Field 6440	9:10 AM 12 th floor/Adj. to Server Lobby LT ANYL SENS	<0.0042
6440-02 Field 6440	9:40 AM 10 th floor/Outside Balcony, eastside LT ANYL SENS	<0.0048
6440-03 Field 6440	9:35 AM 7 th floor, adj. to stair "C" LT ANYL SENS	<0.0049
6440-04 Field 6440	10:30 AM 3 rd floor/Adj. to stair "D" LT ANYL SENS	<0.0044

LT ANYL SENS=LRSS TIAN ANALYTICAL SENSITIVITY

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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: 12TH FLOOR: ADJACENT TO SERVICE LOBBY

COLLECTED: 12/4/01
DATE REC'D: 12/6/01
ANALYZED: 12/6/01

LABORATORY ID	FIELD ID	ANALYTE	VOLUME (L)	ug/m ³
41051	6442-01	CADMIUM	634	<0.16
		CHROMIUM	634	0.63
		COPPER	634	1.42
		IRON	634	0.79
		LEAD	634	<1.37
		MANGANESE	634	<0.24
		NICKEL	634	<0.40
		ZINC	634	<1.45

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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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: 10TH FLOOR: OUTSIDE BALCONY
EASTSIDE

COLLECTED: 12/4/01
DATE REC'D: 12/6/01
ANALYZED: 12/6/01

LABORATORY ID	FIELD ID	ANALYTE	VOLUME (L)	ug/m ³
41052	6442-02	CADMIUM	618	<0.16
		CHROMIUM	618	0.57
		COPPER	618	1.13
		IRON	618	4.13
		LEAD	618	<1.38
		MANGANESE	618	<0.24
		NICKEL	618	<0.40
		ZINC	618	<1.46

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: 7TH FLOOR: ADJACENT TO STAIR 'C'

COLLECTED: 12/4/01
DATE REC'D: 12/6/01
ANALYZED: 12/6/01

LABORATORY ID	FIELD ID	ANALYTE	VOLUME (L)	ug/m ³
41053	6442-03	CADMIUM	839	<0.12
		CHROMIUM	839	0.42
		COPPER	839	0.77
		IRON	839	0.80
		LEAD	839	<1.01
		MANGANESE	839	<0.18
		NICKEL	839	<0.30
		ZINC	839	<1.07

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: 3RD FLOOR: ADJACENT TO STAIR 'D'

COLLECTED: 12/4/01
DATE REC'D: 12/6/01
ANALYZED: 12/6/01

LABORATORY ID	FIELD ID	ANALYTE	VOLUME (L)	ug/m ³
41054	6442-04	CADMIUM	800	<0.13
		CHROMIUM	800	0.63
		COPPER	800	2.44
		IRON	800	0.94
		LEAD	800	<1.06
		MANGANESE	800	<0.19
		NICKEL	800	<0.31
		ZINC	800	<1.13

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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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: December 4, 2001

RESULTS OF SILICA SCAN

Floor/Location	Concentrations Reported in mg/m^3		Standard/Guidelines
	Cristobalite	Quartz	
12th floor/adj. to service lobby	<0.01	<0.01	NIOSH 0.05 mg/m^3
10th floor/outside balcony east side	<0.01	<0.01	
7th floor/adj. to stairs	<0.01	<0.01	
3rd floor/adj. to stairs	<0.01	<0.01	

All levels reported are below their associated standards and guidelines.

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

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

Project #: 211338
Project Address: One North End Avenue
Survey Date: 12/04/01

POLYNUCLEAR AROMATIC HYDROCARBON

Sample #	Location	Analyte	Concentration (µg/m ³)	Standards/Guidelines
211338-01	12 th floor/adj. to service lobby	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 Pteranthrene Pyrene	<7.9 <7.9 <1.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1.5 <7.9 <7.9 <1.5 <7.9 <1.5 <1.5	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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 New York, New York 10018

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

Project #: 211338
Project Address: One North End Avenue
Survey Date: 12/04/01

POLYNUCLEAR AROMATIC HYDROCARBON

Sample #	Location	Analyte	Concentration ($\mu\text{g}/\text{m}^3$)	Standards/Guidelines
211338-02	10 th floor/outside balcony east side	Acenaphthene	<8.1	NIOSH REL 100 $\mu\text{g}/\text{m}^3$ OSHA PEL 200 $\mu\text{g}/\text{m}^3$
		Acenaphthylene	<8.1	
		Anthracene	<1.6	
		Benz (a) anthracene	<1.6	
		Benzo (a) pyrene	<1.6	
		Benzo (b) fluoranthene	<1.6	
		Benzo (ghi) perylene	<1.6	
		Benzo (k) fluoranthene	<1.6	
		Chrysene	<1.6	
		Dibenz (a,h) anthracene	<1.6	
		Fluoranthene	<8.1	
		Flourene	<8.1	
		Indeno (1,2,3-cd) pyrene	<1.6	
		Naphthalene	<8.1	
		Phenanthrene	<1.6	
		Pyrene	<1.6	

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

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Project Address: One North End Avenue
Survey Date: 12/04/01

POLYNUCLEAR AROMATIC HYDROCARBON

Sample #	Location	Analyte	Concentration ($\mu\text{g}/\text{m}^3$)	Standards/Guidelines
211338-03	7 th floor/adj. to stair "C"	Acenaphthene	<8.1	NIOSH REL. 100 $\mu\text{g}/\text{m}^3$ OSHA PEL 200 $\mu\text{g}/\text{m}^3$
		Acenaphthylene	<8.1	
		Anthracene	<1.6	
		Benz (a) anthracene	<1.6	
		Benzo (a) pyrene	<1.6	
		Benzo (b) fluoranthene	<1.6	
		Benzo (ghi) perylene	<1.6	
		Benzo (k) fluoranthene	<1.6	
		Chrysene	<1.6	
		Dibenz (a,h) anthracene	<1.6	
		Fluoranthene	<8.1	
		Flourene	<8.1	
		Indeno (1,2,3-cd) pyrene	<1.6	
		Naphthalene	<8.1	
		Phenanthrene	<1.6	
		Pyrene	<1.6	

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: 12/04/01

POLYNUCLEAR AROMATIC HYDROCARBON

Sample #	Location	Analyte	Concentration ($\mu\text{g}/\text{m}^3$)	Standards/Guidelines
211338-04	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	<10.5 <10.5 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <10.5 <10.5 <2.0 <10.5 <2.0	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