


ambient group inc.

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

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November 21, 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 15, 2001 at One North End Avenue. The survey included sampling for airborne metals, polynuclear aromatic hydrocarbons and airborne asbestos structures by TEM.

Four (4) air samples were collected from various locations on floors 2, 3, 7 and 10 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 2, 3, 7 and 10 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.

Four (4) air samples were collected from floors 2, 3, 7 and 10 and analyzed for metals in air (including silica). All measured metals revealed levels well below their respective OSHA PELs and NIOSH RELs.

Please refer to attached laboratory data 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

JLL/sfm
 Attachment

GLLN COVE, NY MIAMI, FL CHICAGO, IL ORANGE, CA
 L:\2001 Investigations\clients\211338 One North End Avenue MERCANTILE Thursday 11_15_01 12:18:36 PNA & Metals & TEM letter 170m 282-2525
 Nov 15th.doc

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: 11/15/01

SAMPLE NUMBER	SAMPLE LOCATION	ASBESTOS STRUCTURES cm³
4501-01 Field 4501	11:25 AM 10 th Floor/Adjacent to Room 1016 LT ANYL SENS	<0.0044
4501-02 Field 4501	11:40 AM 7 th Floor/Adjacent to Stair "C" LT ANYL SENS	<0.0045
4501-03 Field 4501	12:36 PM 3 rd Floor/Adjacent to stair "D" LT ANYL SENS	<0.0046
4501-04 Field 4501	12:07 PM 2 nd Floor/Adjacent to Trading Places Concierge LT ANYL SENS	<0.0045

LT ANYL SENS=LESS THAN ANALYTICAL SENSITIVITY

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 10122

Project #: 211338
Project Address: One North End Avenue
Survey Date: 11/15/01

POLYNUCLEAR AROMATIC HYDROCARBON

Sample #	Location	Analyte	Concentration ($\mu\text{g}/\text{m}^3$)	Standards/Guidelines
211338-01	10 th floor/adj. to room 1016	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	<9.4 <9.4 <1.9 <1.9 <1.9 <1.9 <1.9 <1.9 <1.9 <1.9 <9.4 <9.4 <1.9 <9.4 <1.9	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

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 10128

Project #: 211338
Project Address: One North End Avenue
Survey Date: 11/15/01

POLYNUCLEAR AROMATIC HYDROCARBON

Sample #	Location	Analyte	Concentration ($\mu\text{g}/\text{m}^3$)	Standards/Guidelines
211338-02	7 th Floor/Adj. to Stair	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 Napthalene Phenanthrene Pyrene	<9.6 <9.6 <1.9 <1.9 <1.9 <1.9 <1.9 <1.9 <1.9 <1.9 <9.6 <9.6 <1.9 <9.6 <1.9	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

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: 11/15/01

POLYNUCLEAR AROMATIC HYDROCARBON

Sample #	Location	Analyte	Concentration ($\mu\text{g}/\text{m}^3$)	Standards/Guidelines
211338-03	3 rd Floor/Adj. to Stair	Acenaphthene Acenaphthylene Anthracene Benz (a) anthracene Benzo (a) pyrene Benzo (b) fluoranthene Benzo (ghi) perylene Benzo (k) fluoranthene Chrysene Dibenzo (a,h) anthracene Fluoranthene Fluorene Indeno (1,2,3-cd) pyrene Naphthalene Phenanthrene Pyrene	<9.6 <9.6 <1.9 <1.9 <1.9 <1.9 <1.9 <1.9 <1.9 <9.6 <9.6 <1.9 <9.6 <1.9	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

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

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

Project #: 211338
Project Address: One North End Avenue
Survey Date: 11/15/01

POLYNUCLEAR AROMATIC HYDROCARBON

Sample #	Location	Analyte	Concentration ($\mu\text{g}/\text{m}^3$)	Standards/Guidelines
211338-04	2 nd floor/adj. to Trading Places	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	<9.9 <9.9 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <9.9 <9.9 <2.0 <9.9 <2.0 <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

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 15, 2001

SILICA RESULTS

Floor/Location	Concentrations Reported In mg/m ³		Standard/Guidelines
	Cristobalite	Quartz	
10th floor/adj. to room 1016	<0.011	<0.011	NIOSH 0.05 mg/m ³
7th floor/adj. to stair "C"	<0.011	<0.011	
3rd floor/adj. to stair "D"	<0.011	<0.011	
2nd floor/Adj. to Trading Places	<0.012	<0.012	

All levels reported are below their associated standards and guidelines.

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

METALS IN AIR LABORATORY DATA REPORT

PROJECT ID: 211338
CLIENT: CUSHMAN & WAKEFIELD
PROJECT ADDRESS: 1 NORTH END AVENUE
DESCRIPTION: 13TH FLOOR: ADJACENT TO ROOM 1321
COLLECTED: 11/13/01
DATE REC'D: 11/16/01
ANALYZED: 11/20/01

LABORATORY ID	FIELD ID	ANALYTE	VOLUME (L)	ug/m ³
4463-01	40136	CADMIUM	620	0.24
		CHROMIUM	620	1.61
		COPPER	620	1.85
		IRON	620	16.37
		LEAD	620	1.85
		MANGANESE	620	0.56
		NICKEL	620	0.40
		ZINC	620	1.94

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

AMBIENT GROUP, INC.
10 MORRIS AVENUE
GLEN COVE, NY 11542
ELAP # 10885

METALS IN AIR LABORATORY DATA REPORT

PROJECT ID: 211338
CLIENT: CUSHMAN & WAKEFIELD
PROJECT ADDRESS: 1 NORTH END AVENUE
DESCRIPTION: 7TH FLOOR: ADJACENT TO STAIR 'C'

COLLECTED: 11/13/01
DATE REC'D: 11/16/01
ANALYZED: 11/20/01

LABORATORY ID	FIELD ID	ANALYTE	VOLUME (L)	ug/m ³
4463-02	40317	CADMIUM	598	0.33
		CHROMIUM	598	1.92
		COPPER	598	1.67
		IRON	598	16.97
		LEAD	598	1.92
		MANGANESE	598	0.59
		NICKEL	598	0.42
		ZINC	598	2.51

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

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

METALS IN AIR LABORATORY DATA REPORT

PROJECT ID: 211338
CLIENT: CUSHMAN & WAKEFIELD
PROJECT ADDRESS: 1 NORTH END AVENUE
DESCRIPTION: 3RD FLOOR: ADJACENT TO STAIR 'D'

COLLECTED: 11/13/01
DATE REC'D: 11/16/01
ANALYZED: 11/20/01

LABORATORY ID	FIELD ID	ANALYTE	VOLUME (L)	ug/m ³
4463-03	40138	CADMIUM	586	0.26
		CHROMIUM	586	1.71
		COPPER	586	1.96
		IRON	586	17.32
		LEAD	586	1.96
		MANGANESE	586	0.80
		NICKEL	586	0.43
		ZINC	586	2.05

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

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

METALS IN AIR LABORATORY DATA REPORT

PROJECT ID: 211338
CLIENT: CUSHMAN & WAKEFIELD
PROJECT ADDRESS: 1 NORTH END AVENUE
DESCRIPTION: LOBBY: ADJACENT TO SECURITY DESK
COLLECTED: 11/13/01
DATE REC'D: 11/16/01
ANALYZED: 11/20/01

COLLECTED: 11/13/01
DATE REC'D: 11/16/01
ANALYZED: 11/20/01

LABORATORY ID	FIELD ID	ANALYTE	VOLUME (L)	ug/m ³
4463-04	40139	CADMIUM	590	0.25
		- CHROMIUM	590	1.69
		COPPER	590	2.03
		IRON	590	17.20
		LEAD	590	1.95
		MANGANESE	590	0.59
		NICKEL	590	0.42
		ZINC	590	2.54

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