

19 Rector Street

03/27/2003 10:49 FAX

001/015

321 Broadway, Suite 201
New York, NY 10007
Phone: 212-285-1800
Fax: 212-285-1818
jgreenberg@kasirerconsulting.com

KASIRER CONSULTING

Fax

To: Assistant Commissioner Mike Gilsonan	From: Julie Greenberg
Fax: 718-595-4544	Date: March 26, 2003
718-595-4543	Pages: 15
Re:	CC:

☐ Urgent ☒ For Review ☐ Please Comment ☒ Please Reply ☐ Please Recycle

Mr. Gilsonan,

Attached are additional reports regarding dust asbestos sampling taken at 88 Greenwich Street at DEP's request.

Please let me know if you need additional information.

Thank you,

Julie Greenberg

03/27/2003 10:50 FAX

002/015

MONARCH LLC

212 425 8142

03/26 '03 12:07 NO.666 02/15



Environmental Monitoring & Consulting Associates

P.O. BOX 872 • SOMERVILLE, NJ 08876 • (732) 249-3005 • FAX (732) 249-3384

DUST ASBESTOS SAMPLING

AT

**88 GREENWICH STREET
NEW YORK, NEW YORK 10006**

PREPARED FOR

**MR. JOHN O'BRIAN
HIGHLANDS DEVELOPMENT LLC
88 GREENWICH STREET
MANAGEMENT OFFICE
NEW YORK, NEW YORK 10006**

PREPARED BY

**ENVIRONMENTAL MONITORING & CONSULTING ASSOCIATES
POST OFFICE BOX 872
SOMERVILLE, NEW JERSEY 08876**

(732) 249-3005

03/27/2003 10:50 FAX

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212 425 8142

03/26 '03 12:08 NO.666 03/15

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**Environmental Monitoring & Consulting Associates**

P.O. BOX 872 • SOMERVILLE, NJ 08876 • (732) 249-3005 • FAX (732) 249-3384

March 25, 2003

Mr. John O'Brian
Highlands Development LLC
88 Greenwich Street
Management Office
New York, New York 10006

RE: 88 Greenwich Street
New York, New York

Dear Mr. O'Brian:

Enclosed please find the test results of the fifteen (15) dust samples that were collected at the above referenced location on March 3, 2003.

The fifteen (15) dust samples were collected between masonry paving stones on the twenty-fourth floor Sky Lounge balcony. The dust samples were first analyzed using Polarized Light Microscopy (PLM) and five (5) of the fifteen (15) were found to have a trace amount (less than one percent) of asbestos.

PLM can be used to define asbestos containing material in dust and debris. A material is considered to be asbestos containing material if it contains more than 1% asbestos using the PLM method. The PLM method only counts the larger asbestos fibers. Therefore, if results by PLM are negative (not greater than 1% asbestos), the sample is then analyzed by the Transmission Electron Microscopy (TEM) method that does count the smaller fibers. However, TEM analysis is not used for regulatory purposes for dust samples.

03/27/2003 10:50 FAX

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Since the dust samples collected at 88 Greenwich Street were negative for asbestos by PLM, they were also analyzed by Transmission Electron Microscopy (TEM). Eleven of the TEM dust samples were non-detected and four samples contained a trace amount (less than one percent) of Chrysotile Asbestos.

In summation, trace amounts of asbestos were found in the dust samples by both the PLM and TEM methods. This material is not considered to be an asbestos containing material in accordance with U.S. EPA regulations.

If you have any questions, please do not hesitate to contact me.

Very truly yours,

Joel Russell
President

JR/bj

03/27/2003 10:51 FAX

005/015

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03/26 '03 12:08 NO.666 05/15

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Environmental Monitoring & Consulting Associates

P.O. BOX 872 • SOMERVILLE, NJ 08876 • (732) 249-3005 • FAX (732) 249-3384

TO: Mr. John O'Brian
Highlands Development LLC
88 Greenwich Street
Management Office
New York, New York 10006

RE: BULK DUST SAMPLE ASBESTOS ANALYSIS/88 GREENWICH STREET/NEW YORK,
NEW YORK

CERTIFICATE OF ANALYSIS

Bulk Dust Sample Asbestos Analysis
Polarized Light Microscopy
EPA Method Number 600/R-93/116

Date Collected: March 3, 2003

SAMPLE ID

ASBESTOS CONTENT

Sample #8803001
Twenty-Fourth Floor/Sky
Lounge Balcony/Southwest
Corner/Between Pavers/
Outside Building/Sample
Of Settled Dust

*None Detected

Sample #8803002
Twenty-Fourth Floor/Sky
Lounge Balcony/South
Side/Center/Between
Pavers/Outside Building/
Sample Of Settled Dust

Chrysotile Asbestos - < 1.0%

*Method Detection Limit <1%

Joel Russell

Joel Russell

NOTE: 1) This Report Relates Only To The Samples Tested And Must Not Be Used By The
Client To Claim Product Endorsement By NVLAP.

03/27/2003 10:51 FAX

006/015

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212 425 8142

03/26 '03 12:09 NO.666 06/15

**Environmental Monitoring & Consulting Associates**

P.O. BOX 872 • SOMERVILLE, NJ 08876 • (732) 249-3005 • FAX (732) 249-3384

TO: Mr. John O'Brian
Highlands Development LLC
88 Greenwich Street
Management Office
New York, New York 10006

RE: BULK DUST SAMPLE ASBESTOS ANALYSIS/88 GREENWICH STREET/NEW YORK,
NEW YORK

CERTIFICATE OF ANALYSIS

Bulk Dust Sample Asbestos Analysis
Polarized Light Microscopy
EPA Method Number 600/R-93/116

Date Collected: March 3, 2003

SAMPLE ID**ASBESTOS CONTENT**

Sample #8803003
Twenty-Fourth Floor/Sky
Lounge Balcony/Southeast
Corner/Between Pavers/
Outside Building/Sample
Of Settled Dust

*None Detected

Sample #8803004
Twenty-Fourth Floor/Sky
Lounge Balcony/East
Side/Center/Between
Pavers/Outside Building/
Sample Of Settled Dust

Chrysotile Asbestos - Trace

*Method Detection Limit <1%

Joel Russell

Joel Russell

NOTE: 1) This Report Relates Only To The Samples Tested And Must Not Be Used By The
Client To Claim Product Endorsement By NVLAP.

03/27/2003 10:51 FAX

007/015

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03/26 '03 12:09 NO.666 07/15

**Environmental Monitoring & Consulting Associates**

P.O. BOX 572 - SOMERVILLE, NJ 08876 • (732) 249-9005 • FAX (732) 249-9384

TO: Mr. John O'Brian
Highlands Development LLC
88 Greenwich Street
Management Office
New York, New York 10006

RE: BULK DUST SAMPLE ASBESTOS ANALYSIS/88 GREENWICH STREET/NEW YORK,
NEW YORK

CERTIFICATE OF ANALYSIS

Bulk Dust Sample Asbestos Analysis
Polarized Light Microscopy
EPA Method Number 600/R-93/116

Date Collected: March 3, 2003

SAMPLE ID**ASBESTOS CONTENT**

Sample #8803005
Twenty-Fourth Floor/Sky
Lounge Balcony/Corner/
Between Pavers/Outside
Building/Sample Of
Settled Dust

*None Detected

Sample #8803006
Twenty-Fourth Floor/Sky
Lounge Balcony/Southwest
Corner/Between Pavers/
Outside Building/Sample
Of Settled Dust

None Detected

*Method Detection Limit <1%

Joel Russell

NOTE: 1) This Report Relates Only To The Samples Tested And Must Not Be Used By The
Client To Claim Product Endorsement By NVLAP.

03/27/2003 10:52 FAX

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03/26 '03 12:09 NO.666 08/15

**Environmental Monitoring & Consulting Associates**

P.O. BOX 872 - SOMERVILLE, NJ 08876 - (732) 249-3005 - FAX (732) 249-3384

TO: Mr. John O'Brian
Highlands Development LLC
88 Greenwich Street
Management Office
New York, New York 10006

RE: BULK DUST SAMPLE ASBESTOS ANALYSIS/88 GREENWICH STREET/NEW YORK,
NEW YORK

CERTIFICATE OF ANALYSIS

Bulk Dust Sample Asbestos Analysis
Polarized Light Microscopy
EPA Method Number 600/R-93/116

Date Collected: March 3, 2003

SAMPLE ID**ASBESTOS CONTENT**

Sample #8803007
Twenty-Fourth Floor/Sky
Lounge Balcony/Southwest
Corner/Between Pavcs/
Outside Building/Sample
Of Settled Dust

Chrysotile Asbestos - <1.0%

Sample #8803008
Twenty-Fourth Floor/Sky
Lounge Balcony/West
Side/Center/Between
Pavers/Outside Building/
Sample Of Settled Dust

*None Detected

*Method Detection Limit <1%

Joel Russell

Joel Russell

NOTE: 1) This Report Relates Only To The Samples Tested And Must Not Be Used By The
Client To Claim Product Endorsement By NVLAP.

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P.O. BOX 872 • SOMERVILLE, NJ 08876 • (732) 249-3005 • FAX (732) 249-3384

TO: Mr. John O'Brian
Highlands Development LLC
88 Greenwich Street
Management Office
New York, New York 10006

RE: BULK DUST SAMPLE ASBESTOS ANALYSIS/88 GREENWICH STREET/NEW YORK,
NEW YORK

CERTIFICATE OF ANALYSIS

Bulk Dust Sample Asbestos Analysis
Polarized Light Microscopy
EPA Method Number 600/R-93/116

Date Collected: March 3, 2003

SAMPLE ID

ASBESTOS CONTENT

Sample #8803009
Twenty-Fourth Floor/Sky
Lounge Balcony/West
Side/Center/Between
Pavers/Outside Building/
Sample Of Settled Dust

*None Detected

Sample #8803010
Twenty-Fourth Floor/Sky
Lounge Balcony/Center/
Between Pavers/Outside
Building/Sample Of
Settled Dust

None Detected

*Method Detection Limit <1%

Joel Russell

Joel Russell

NOTE: 1) This Report Relates Only To The Samples Tested And Must Not Be Used By The
Client To Claim Product Endorsement By NVLAP.

03/27/2003 10:52 FAX

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03/26 '03 12:10 NO.666 10/15

U.S. 249-3384

EM&CA

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**Environmental Monitoring & Consulting Associates**

P.O. BOX 872 • SOMERVILLE, NJ 08876 • (732) 249-3005 • FAX (732) 249-3384

TO: Mr. John O'Brian
Highlands Development LLC
88 Greenwich Street
Management Office
New York, New York 10006

RE: BULK DUST SAMPLE ASBESTOS ANALYSIS/88 GREENWICH STREET/NEW YORK,
NEW YORK

CERTIFICATE OF ANALYSIS

Bulk Dust Sample Asbestos Analysis
Polarized Light Microscopy
EPA Method Number 600/R-93/116

Date Collected: March 3, 2003

SAMPLE ID**ASBESTOS CONTENT**

Sample #8803011
Twenty-Fourth Floor/Sky
Lounge Balcony/West
Side/Center/Between
Pavers/Outside Building/
Sample Of Settled Dust

*None Detected

Sample #8803012
Twenty-Fourth Floor/Sky
Lounge Balcony/Northeast
Corner/Between Pavers/
Outside Building/Sample
Of Settled Dust

Chrysotile Asbestos - <1.0%

*Method Detection Limit <1%

Joel Russell

Joel Russell

NOTE: 1) This Report Relates Only To The Samples Tested And Must Not Be Used By The
Client To Claim Product Endorsement By NVLAP.

03/27/2003 10:53 FAX

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03/26 '03 12:10 NO.666 11/15

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Environmental Monitoring & Consulting Associates

P.O. BOX 872 • SOMERVILLE, NJ 08876 • (732) 249-3005 • FAX (732) 249-3384

TO: Mr. John O'Brian
Highlands Development LLC
88 Greenwich Street
Management Office
New York, New York 10006

RE: BULK DUST SAMPLE ASBESTOS ANALYSIS/88 GREENWICH STREET/NEW YORK,
NEW YORK

CERTIFICATE OF ANALYSIS

Bulk Dust Sample Asbestos Analysis
Polarized Light Microscopy
EPA Method Number 600/R-93/116

Date Collected: March 3, 2003

SAMPLE ID

ASBESTOS CONTENT

Sample #8803013
Twenty-Fourth Floor/Sky
Lounge Balcony/North
Side/Center/Between
Pavers/Outside Building/
Sample Of Settled Dust

*None Detected

Sample #8803014
Twenty-Fourth Floor/Sky
Lounge Balcony/Northwest
Corner/Between Pavers/
Outside Building/Sample
Of Settled Dust

Chrysotile Asbestos - <1.0%

*Method Detection Limit <1%

Joel Russell

Joel Russell

NOTE: 1) This Report Relates Only To The Samples Tested And Must Not Be Used By The
Client To Claim Product Endorsement By NVLAP.

03/27/2003 10:53 FAX

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212 425 8142

03/26 '03 12:11 NO.666 12/15

012/015

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P.O. BOX 872 • SOMERVILLE, NJ 08876 • (732) 249-3005 • FAX (732) 249-3384

TO: Mr. John O'Brian
Highlands Development LLC
88 Greenwich Street
Management Office
New York, New York 10006

RE: BULK DUST SAMPLE ASBESTOS ANALYSIS/88 GREENWICH STREET/NEW YORK,
NEW YORK

CERTIFICATE OF ANALYSIS

Bulk Dust Sample Asbestos Analysis
Polarized Light Microscopy
EPA Method Number 600/R-93/116

Date Collected: March 3, 2003

SAMPLE ID**ASBESTOS CONTENT**

Sample #8803015
Twenty-Fourth Floor/Sky
Lounge Balcony/South
Side/Center/Between
Pavers/Outside Building/
Sample Of Settled Dust

*None Detected

*Method Detection Limit <1%

Joel Russell

Joel Russell

NOTE: 1) This Report Relates Only To The Samples Tested And Must Not Be Used By The Client To Claim Product Endorsement By NVLAP.

03/27/2003 10:53 FAX

013/015

MONARCH LLC

212 425 8142

03/26 '03 12:11 NO.666 13/15

**Environmental Monitoring & Consulting Associates**

P.O. BOX 872 • SOMERVILLE, NJ 08876 • (732) 249-3005 • FAX (732) 249-3284

TO: Mr. John O'Brian
 88 Greenwich LLC
 88 Greenwich Street
 New York, New York 10006

RE: BULK SAMPLE ASBESTOS ANALYSIS/88 GREENWICH STREET/NEW YORK,
 NEW YORK

**Analysis Of New York State NOBs Performed by Transmission Electron
 Microscopy (TEM) ELAP 198.4 Method**

SAMPLE ID	DESCRIPTION	% NON-ASB FIBERS	MATRIX MATERIAL	% TOTAL ASBESTOS
8803001	Dust	None	100.0	None Detected
8803002	Dust	None	100.0	None Detected
8803003	Dust	None	100.0	None Detected
8803004	Dust	None	100.0	None Detected
8803005	Dust	None	100.0	None Detected
8803006	Dust	None	100.0	None Detected
8803007	Dust	None	100.0	None Detected
8803008	Dust	None	100.0	None Detected
8803009	Dust	None	100.0	<1 Chrysotile
8803010	Dust	None	100.0	None Detected
8803011	Dust	None	100.0	None Detected
8803012	Dust	None	100.0	None Detected
8803013	Dust	None	100.0	<1 Chrysotile
8803014	Dust	None	100.0	<1 Chrysotile
8803015	Dust	None	100.0	<1 Chrysotile

Notes:

- 1) Samples From This Project Will Be Retained For Fifteen Days Unless Otherwise Directed.

Joel Russell

Joel Russell

03/27/2003 10:54 FAX

014/015

MONARCH LLC

212 425 8142

03/26 '03 12:11 NO.666 14/15

03/26/2003 12:04 7329810551

EMSL

PAGE 02/05

EMSL Analytical, Inc.

1055 Seaton Road, Piscataway, NJ 08854

Phone: (732) 981-0550 Fax: (732) 981-0551 Email: info@emsl.com

ATTN: Joel Russell
Environmental Monitoring & Consulting
(EM & CA)
P.O. Box 872
Summitville, NJ 08876
Fax: (732) 248-3384
Project: 88 Greenwich St NY NY

Phone: 732-248-3805

Customer ID: EMCA60
Customer PO:
Received: 03/18/03 9:09 AM
EMSL Order: 050300778
EMSL Project ID:
Analysis Date: 3/25/03

**Asbestos Analysis of Non-Friable Organically Bound materials by Transmission
Electron Microscopy via NYS ELAP Method 198.4**

SAMPLE ID	DESCRIPTION	APPEARANCE	% MATRIX MATERIAL	% NON-ASBESTOS	ASBESTOS TYPES	% TOTAL ASBESTOS
8803001 050300778-0001		Brown Fibrous Heterogeneous	100.0	None	No Asbestos Detected	
8803002 050300778-0001		Brown Fibrous Heterogeneous	100.0	None	No Asbestos Detected	
8803003 050300778-0001		Brown Fibrous Heterogeneous	100.0	None	No Asbestos Detected	
8803004 050300778-0001		Brown Fibrous Heterogeneous	100.0	None	No Asbestos Detected	
8803005 050300778-0001		Brown Fibrous Heterogeneous	100.0	None	No Asbestos Detected	
8803006 050300778-0001		Brown Fibrous Heterogeneous	100.0	None	No Asbestos Detected	
8803007 050300778-0001		Brown Fibrous Heterogeneous	100.0	None	No Asbestos Detected	
8803008 050300778-0001		Brown Fibrous Heterogeneous	100.0	None	No Asbestos Detected	
8803009 050300778-0001		Brown Fibrous Heterogeneous	100.0	None	<1 Chrysotile	<1
8803010 050300778-0010		Brown Fibrous Heterogeneous	100.0	None	No Asbestos Detected	

Drew Hodgdon
Analyst

Abhinav Arora
Abhinav Arora
or other approved signatory

This laboratory is not responsible for % asbestos in total sample when the residue after is submitted for analysis. The above report relates only to the items tested. This report may not be reproduced, except in full, without written approval by EMSL Analytical, Inc.
Analysis performed by EMSL, Piscataway (NY) Data ELAP 141425, NVLAP 9101048-2, Connecticut DCM PH-0398 Approved (Rev. 1.26)

NYC 001-2

03/25/03 TUE 13:02 [TX/RX NO 5840] 002

03/27/2003 10:54 FAX

015/015

MONARCH LLC 212 425 8142
 03/25/03 15:39 FAX 732 249 3384

03/26 '03 12:12 NO.666 15/15

PAGE 03/05

03/25/2003 12:24 7329818551

EMSL

EMSL Analytical, Inc.

1875 Edison Road, Placetown, NJ 08854

Phone: (732) 981-8851 Fax: (732) 981-8851

E-mail: placetown@emsl.com**EMSL**

Attn: Joel Russell
 Environmental Monitoring & Consulting
 (EM & CA)
 P.O. Box 872
 Somerville, NJ 08876
 Fax: (732) 249-3384
 Project: 88 Greenwich St NY NY

Phone: 732-249-3006

Customer ID: EMCA50
 Customer PO: 03/12/03 9:00 AM
 Received:

EMSL Order: 080300778
 EMSL Project ID:
 Analysis Date: 3/26/03

**Asbestos Analysis of Non-Friable Organically Bound materials by Transmission
 Electron Microscopy via NYS ELAP Method 198.4**

SAMPLE ID	DESCRIPTION	APPEARANCE	% MATRIX MATERIAL	% NON-ASBESTOS	ASBESTOS TYPES	% TOTAL ASBESTOS
8803011 080300778-0011		Brown Fibrous Heterogeneous	100.0	None	No Asbestos Detected	
8803012 080300778-0012		Brown Fibrous Heterogeneous	100.0	None	No Asbestos Detected	
8803013 080300778-0013		Brown Fibrous Heterogeneous	100.0	None	<1 Chrysotile	<1
8803014 080300778-0014		Brown Fibrous Heterogeneous	100.0	None	<1 Chrysotile	<1
8803015 080300778-0015		Brown Fibrous Heterogeneous	100.0	None	<1 Chrysotile	<1

Draw Hodgden
 Analyst



Adrian Aray
 or other approved signatory

This laboratory is not responsible for the selection of total sample when the residue only is submitted for analysis. The entire report relates only to the sample tested. This report may not be reprinted, except in full, without written approval by EMSL Analytical, Inc.
 Analysis performed by EMSL Placetown (NY State ELAP #1462, NYLAP #01545-2, Certified DCM PI-002 Approved EMP Lab)

NY-100-2

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03/26/03 TUE 13:02 [TX/RX NO 5848] 003