

ENVIRONMENTAL HEALTH INVESTIGATIONS, INC.

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REPORT OF FINDINGS

**Environmental Hazard Investigation
Metals & Dioxins
Floors Six, Seven, Eight, Nine
75 Park Place
New York, New York 10007-2146**

Conducted On Behalf Of:

**Bovis Lend Lease LMB, Inc.
200 Park Avenue
New York, New York**

**Survey Conducted: February 22, 2002
Report Dated: March 1, 2002**

EHI Project #: 0224-0572A

Bovis Lend Lease, Inc.
75 Park Place
Floors 6, 7, 8, & 9

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1.0 Introduction

Environmental Health Investigations, Inc. conducted an investigation of Floors Six, Seven, Eight and Nine at 75 Park Place, New York, New York. This investigation was a follow up to a previous survey conducted on January 25 and 26, 2002 (see EHI report 0224-0572 dated February 4, 2002). The purpose of this follow up evaluation was to determine whether any hazard from inorganic metals, dioxins or dioxin like compounds existed on the floors.

The survey involved collection of settled and/or surface particulate on each of the floors. The collected particulate were submitted for analysis to PSC Analytical Services. The survey was conducted on February 22, 2002 by William S. Kerbel, CIH.

2.0 Methods

Samples of settled particulate were collected by attaching a 37-millimeter cassette filter to an electric pump and vacuuming an area between one square foot and one square meter. These samples were designated as "A" samples and were submitted to PSC Analytical Services for Metal Scans via ICAP.

A second set of samples designated as "B" samples were collected in the same manner as the "A" samples but in an adjacent area. The samples were submitted to PSC Analytical Services for Mercury analysis via AA.

A third set of samples designated as "C" samples were collected in an area adjacent to the areas where the "A" and "B" samples were collected. These samples were collected by wiping a sterile gauze pad containing Hexane over the surface area. A one square foot area was wiped. The samples were submitted to PSC Analytical Services for analysis for Dioxins via GC/MS.

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The samples were collected and designated as follows:

Sample I.D.	Location
LMB-022202-01	Sixth Floor - Southeast Corner Cubicle - Samples A & B Collected From Carpet. Sample C Collected From Top Of File Cabinet.
LMB-022202-02	Sixth Floor - Southwest Corner Office - Samples A & B Collected From Carpet. Sample C Collected From Top Of Univent At Window.
LMB-022202-03	Seventh Floor - Southeast Corner - Behind File Cabinets - Sample A & B Collected From Carpet. Sample C Collected From Top Of Filing Cabinet.
LMB-022202-04	Seventh Floor - Southwest Corner Cubicle Area - Samples A & B Collected From Desktop Computer And Top Of Partition. Sample C Collected Off Top Of Desk.
LMB-022202-05	Eighth Floor - Southwest Corner - Open Area Being Used By Trades - Sample A & B Collected From Carpet. Sample C Collected From Window Sill.
LMB-022202-06	Eight Floor - Center Of Floor - Samples A, B & C Collected Beneath Raised Floor On Structural Slab.
LMB-022202-07	Ninth Floor - Southeast Corner Of Floor - Directly Below Broken Window Sill. Samples A & B Collected From Carpet Beneath Plywood Barrier. Sample C Collected From Window Sill.
LMB-022202-08	Ninth Floor - Southwest Corner Conference Room - Sample A, B & C Collected From Interior Of Univent.

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3.2 Dioxins and Dioxin Like Compounds (Reported in nanograms per sample)

Area/Sample	01	02	03	04	05	06	07	08
Total Tetrachlorodibenzofurans	<0.23	<0.049	<0.048	<0.038	<0.086	<0.057	<0.075	<0.027
Total Pentachlorodibenzofurans	<0.23	<0.055	<0.055	<0.054	<0.067	<0.066	<0.063	<0.028
Total Hexachlorodibenzofurans	<0.25	<0.072	<0.074	<0.072	<0.088	<0.091	<0.085	<0.037
Total Heptachlorodibenzofurans	<0.29	<0.10	<0.10	<0.076	<0.13	<0.12	0.11	<0.053
Octachlorodibenzofuran	<0.31	<0.14	<0.14	<0.11	<0.18	<0.17	<0.16	<0.078
Total Tetrachlorodibenzo-p-dioxins	<0.39	<0.084	<0.079	<0.062	<0.097	<0.094	<0.090	<0.045
Total Pentachlorodibenzo-p-dioxins	<0.38	<0.094	<0.094	<0.091	<0.11	<0.11	<0.11	<0.048
Total Hexachlorodibenzo-p-dioxins	<0.38	<0.11	<0.11	<0.11	<0.13	<0.14	0.27	<0.057
Total Heptachlorodibenzo-p-dioxins	<0.42	<0.15	<0.15	<0.11	<0.19	<0.18	<0.17	<0.077
Octachlorodibenzo-p-dioxin	<0.35	<0.16	<0.16	<0.12	<0.21	<0.19	<0.22	0.33
2,3,7,8-C14-Dibenzofuran	<0.23	<0.049	<0.048	<0.038	<0.086	<0.057	<0.075	<0.027
2,3,7,8-C14-Dibenzo-p-dioxin	<0.39	<0.084	<0.079	<0.062	<0.097	<0.094	<0.090	<0.045
1,2,3,7,8-C15-Dibenzofuran	<0.23	<0.056	<0.056	<0.054	<0.068	<0.066	<0.063	<0.028
2,3,4,7,8-C15-Dibenzofuran	<0.22	<0.055	<0.055	<0.053	<0.066	<0.065	<0.062	<0.028
1,2,3,7,8-C15-Dibenzo-p-dioxin	<0.38	<0.094	<0.094	<0.091	<0.11	<0.11	<0.11	<0.048
1,2,3,4,7,8-C16-Dibenzofuran	<0.24	<0.070	<0.072	<0.070	<0.085	<0.089	<0.083	<0.036
1,2,3,6,7,8-C16-Dibenzofuran	<0.22	<0.063	<0.064	<0.063	<0.076	<0.079	<0.074	<0.033
2,3,4,6,7,8-C16-Dibenzofuran	<0.026	<0.074	<0.075	<0.074	<0.090	<0.093	<0.087	<0.038
1,2,3,7,8,9-C16-Dibenzofuran	<0.30	<0.085	<0.087	<0.085	<0.10	<0.11	<0.10	<0.044

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Area/Sample	01	02	03	04	05	06	07	08
1,2,3,4,7,8-C16-Dibenzo-p-dioxin	<0.40	<0.12	<0.12	<0.12	<0.14	<0.15	<0.14	<0.060
1,2,3,6,7,8-C16-Dibenzo-p-dioxin	<0.36	<0.10	<0.11	<0.10	<0.13	<0.13	<0.12	<0.054
1,2,3,7,8,9-C16-Dibenzo-p-dioxin	<0.30	<0.11	<0.11	<0.11	<0.13	<0.14	<0.13	<0.057
1,2,3,4,6,7,8-C17-Dibenzofuran	<0.26	<0.093	<0.094	<0.070	<0.12	<0.11	<0.10	<0.049
1,2,3,4,7,8,9-C17-Dibenzofuran	<0.31	<0.11	<0.11	<0.083	<0.14	<0.13	<0.12	<0.058
1,2,3,4,6,7,8-C17-Dibenzo-p-dioxin	<0.42	<0.15	<0.15	<0.11	<0.19	<0.18	<0.17	<0.077
1,2,3,4,6,7,8,9-C18-Dibenzofuran	<0.31	<0.14	<0.14	<0.11	<0.18	<0.17	<0.16	<0.078
1,2,3,4,6,7,8,9-C18-Dibenzo-p-dioxin	<0.35	<0.16	<0.16	<0.12	<0.21	<0.19	<0.22	0.33

4.0 Discussion

The levels of metals' found in each of the areas samples were generally low to moderate. These concentrations are not considered hazardous as there is insufficient mass to allow for significant exposure. There are no standards for acceptable levels of metals in settled dusts in office environments. However the amount of materials identified are small and if they were completely suspended in the office atmosphere the resulting concentrations would not exceed the OSHA Permissible Exposure Limits.

The levels of dioxin and dioxin like compounds in the areas sampled were generally non detected. Two detectable concentrations are considered low and would be incapable of generating airborne concentrations in excess of the U.S. EPA screening level.