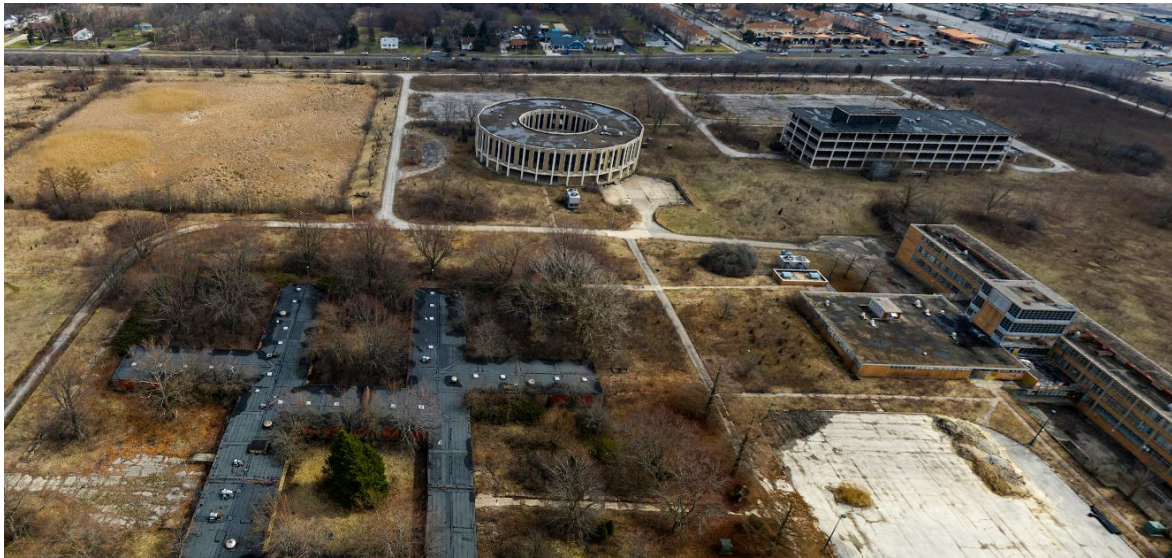


Supplemental Pre-Demolition Asbestos Survey

**Tinley Park Mental Health Center
7600 183rd Street
Tinley Park, Illinois 60477**



OCTOBER 2023

PRESENTED TO

Tinley Park – Park District
125 W 171st Street
Tinley Park, Illinois 60477
(708) 342-4200

A handwritten signature in blue ink, appearing to read 'Caryn Castillo'. The signature is stylized and written in a cursive-like font.

Caryn Castillo
Licensed Asbestos Inspector,
Supervisor, and Manager

PRESENTED BY

Tetra Tech, Inc.
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A handwritten signature in blue ink, appearing to read 'Thomas Hahne'. The signature is stylized and written in a cursive-like font.

Thomas Hahne, CPG
Program Manager

EXECUTIVE SUMMARY

The Tinley Park – Park District (Park District) tasked Tetra Tech, Inc. (Tetra Tech) to conduct a supplemental asbestos survey, including quantification of the current asbestos-containing materials (ACM) at the former Tinley Park Mental Health Center (TPMHC) located at 7600 West 183rd Street, Tinley Park, Illinois (the subject property). The subject property buildings are no longer occupied and have been vacant since July of 2012. The primary purpose of the survey was to assess impacts of asbestos and lead-based paint (LBP), to guide abatement activities before demolition activities begin, update the conditions of the ACMs and LBP components previously identified, and revise the quantities of the materials identified in 2014. From September 5 through September 9, 2023, Tetra Tech conducted an inspection of the 47 buildings and underground tunnels. Prior to the site visits, Tetra Tech reviewed the previous asbestos and LBP survey reports that were available.

ACMs are to be removed by a licensed asbestos contractor before demolition activities begin in accordance with local, state, and federal regulations.

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1.0 INTRODUCTION

The Tinley Park – Park District (Park District) tasked Tetra Tech, Inc. (Tetra Tech) to conduct a supplemental asbestos-containing material (ACM) and lead-based paint (LBP) survey to document the current conditions, materials, and quantities at the 47 buildings and underground tunnels at the former Tinley Park Mental Health Center (TPMHC) located at the campus of 7600 West 183rd Street in Tinley Park, Illinois, (the subject property). The subject property buildings have been vacant since the final closing of the facility in July 2012. The primary purpose of the survey was to assess the current conditions, materials, and quantities present in the buildings before the proposed demolition of the site's structures.

Tetra Tech's Project Manager for the survey team was Ms. Caryn Castillo, an Illinois Department of Public Health (IDPH)-licensed asbestos inspector, supervisor, and manager. The survey team also included Mr. Chris Frost and Mr. Michael Allen, both IDPH-licensed asbestos inspectors. **Appendix D** provides Ms. Castillo's certifications. The survey strategy and sample methodology were developed based on a review of the previously completed asbestos survey reports provided to Tetra Tech as well as a site re-inspection to ascertain any additional concerns. **Appendix F** includes copies of prior reports prepared by Environmental Consulting Group (ECG [ECG 2013b]) and asbestos management plans prepared by Capital Development Board (CDB) (Fox 1994).

Tetra Tech notes that, due to the deteriorated or flooded conditions of the buildings, tunnels, and grounds, additional suspect materials may be present within walls, voids, other concealed areas, and areas not accessible during our survey conducted in September 2023. Many of the basements or flooded areas remained inaccessible, and therefore Tetra Tech was unable to verify the presence or condition of these materials in these areas but relied on information provided from prior surveys. For the purposes of this report, materials identified as suspect in prior surveys are assumed to be present and considered ACM until otherwise proven. Thus, Tetra Tech has relied on the accuracy of prior reports for inaccessible portions of the buildings. Section 7.0 includes assumptions and deviations regarding the subject property survey.

Tetra Tech conducted the survey from September 5 through September 9, 2023. The purpose of the survey was to evaluate the subject property for presence, quantity, locations, and characterization of ACM that will require abatement prior to demolition activities, in accordance with National Emissions Standards for Hazardous Air Pollutants (NESHAP) regulations, as adopted by the U.S. Environmental Protection Agency (EPA). The intent of the asbestos NESHAP regulations is to protect the public (and workers) by minimizing release of asbestos fibers during activities involving processing, handling, and disposing of ACM. Inhalation of asbestos fibers can cause cancer and other lung diseases (Agency for Toxic Substances and Disease Registry [ATSDR] 2008). The survey accorded with industry standard practice for hazardous materials surveys. Tetra Tech collected asbestos samples in accordance with NESHAP regulations, as adopted by EPA.

Tetra Tech also reviewed the previous reports for lead-based paint surveys. These included a screening for presence, quantity, and locations of LBP exceeding lead hazard levels, which would require Occupational Safety and Health Administration (OSHA) worker safety precautions during demolition activities. The subject property buildings were constructed prior to 1978, and LBP likely was used in the build-out of this structure. The LBP screening proceeded according to protocols similar to the single-family housing inspection procedures in U.S. Department of Housing and Urban Development (HUD) guidelines (HUD 2012). Tetra Tech assessed the current conditions during the survey performed in September 2023. The prior lead-based paint survey prepared by ECG provided information on the presence of lead-based paint (ECG 2013a).

Tetra Tech prepared this report in accordance with generally accepted industrial hygiene practice and procedures, the project scope of work, and the terms and conditions in the agreement. In addition, preparation of the report accorded with guidelines established at the time of the work, including those of the Illinois Department of Public Health, the American Industrial Hygiene Association, and EPA, among others. This report does not cover or comment on structural areas not assessed either visibly or by sample collection. The data evaluation and assessment stated herein constitute a professional opinion; no other warranty is expressed or implied.

Tetra Tech provided these services consistent with the level and skill ordinarily exercised by members of the profession currently practicing under similar conditions. This statement is in lieu of other statements either expressed or implied. The scope of services performed in execution of this evaluation may not be appropriate to satisfy the needs of other users, and use or re-use of this document, the findings, conclusions, or recommendations is at the risk of said user. This report does not warrant against future operations or conditions that could affect its recommendations. Moreover, because of some limitations on destructive sampling during the survey, completion of the survey does not guarantee identification of all ACM or LBP—hazardous materials may be present in voids of walls, ceilings, areas inaccessible because of flooding, structurally compromised buildings, or areas inaccessible because of overgrown vegetation.

Section 2.0 of this report describes the subject property structures. **Section 3.0** specifies field and analytical protocols for the asbestos survey. **Section 4.0** presents the field assessment for LBP. **Section 5.0** presents findings. **Section 6.0** a summary with conclusions. **Section 7.0** conveys assumptions and deviations regarding the subject property buildings surveyed. **Section 8.0** lists sources referenced during development of this report. **Appendix A** provides a photographic log; **Appendix B** provides a summary of ACM quantities; **Appendix C** provides figures including building details; **Appendix D** provides certifications; **Appendix E** provides laboratory results; and **Appendix F** provides prior ACM and LBP surveys.

2.0 SUBJECT PROPERTY STRUCTURES

Table 1 below lists the 47 buildings, their Capital Development Board (CDB) numbers, and their common names within the subject property investigated by Tetra Tech as part of this project.

**TABLE 1
LIST OF SUBJECT PROPERTY BUILDINGS**

Number	CDB Building Number	Building Name
1	B4001	Social Hab-Pt Building
2	B4100	Neighborhood House 100
3	B4101-B4104	Residential Units 101-104
4	B4105-B4107	Residential Units 105-107
5	B4108-B4110	Residential Units 108-110
6	B4200	Neighborhood House 200
7	B4201-B4204	Residential Units 201-204
8	B4205-B4207	Residential Units 205-207
9	B4208-B4210	Residential Units 208-210
10	B4300	Neighborhood House 300
11	B4301-B4304	Residential Units 301-304
12	B4305-B4307	Residential Units 305-307
13	B4308-B4310	Residential Units 308-310
14	B4400	Neighborhood House 400
15	B4401-B4404	Residential Units 401-404
16	B4405-B4407	Residential Units 405-407
17	B4408-B4410	Residential Units 408-410
18	B4500	Neighborhood House 500
19	B4501-B4504	Residential Units 501-504
20	B4505-B4507	Residential Units 505-507
21	B4508-B4510	Residential Units 508-510
22	B4002	Personnel Building #2
23	B4003	Administration Building #3
24	BB001	Pump House #1
25	BB002	Pump House #2
26	BB003	Pump House #3
27	BB019	Willow Hall
28	B4031	Pine Hall
29	BB006	Water Treatment Plant #6
30	BB008	Power Plant #8
31	BB020	Oak Hall #20
32	BB021	Hickory Hall #21
33	BB022	Sycamore Hall #22
34	BB025	Garage Building #25
35	BB026	Maple Hall #26
36	BB027	Administration Building #27
37	BB028	Spruce Hall #28
38	BB029	Mimosa Hall #29
39	BB030	Gen Mech Store/Shop
40	BB032	Cedar Hall #32
41	B4114	Cottage #1 – Building #24
42	B4214	Cottage #2 – Building #44

Number	CDB Building Number	Building Name
43	B4314	Cottage #3 – Building #45
44	B4414	Cottage #4 – Building #42
45	B4514	Cottage #5 – Building #43
46	B4614	Cottage #6 – Building #40
47	B4714	Cottage #7 – Building #41
Not applicable (NA)	NA	Tunnels

3.0 ACM FIELD SURVEY AND ANALYTICAL PROTOCOLS

Tetra Tech made every effort to inspect all areas of the subject property buildings for ACM. Minor demolition of materials (destructive sampling) was required during the survey effort. Asbestos samples were collected in accordance with NESHAP, as adopted by EPA and the protocols of Asbestos Hazard and Emergency Response Act of 1986 (AHERA). AHERA defines “asbestos-containing material” as any material or product that contains more than 1 percent (%) asbestos. Suspect ACMs were grouped as homogeneous areas if similar in appearance and texture; however, if the inspector decided that a material (for example, wall texturing) was not similar in appearance and texture to other materials in the subject property building, the inspector distinguished the material as unique and collected samples of each unique material accordingly. Because of limitations on site conditions, additional suspect materials not detected may be present in walls, voids, flooded, unsafe, or other concealed areas. Section 7.0 identifies assumptions and deviations regarding the buildings surveyed.

As part of the survey, Tetra Tech looked for items that were not sampled during prior surveys or that may have been inaccessible because of degraded building conditions. The information developed during our survey is intended to complement and update the information available from prior surveys. **Appendix A** includes a photographic log showing details of observed conditions during the inspection.

Each bulk sample of suspected ACM was collected in a manner ensuring representation of each distinct layer of material in the sample. A wetting agent was applied to friable surfaces prior to sample collection to reduce potential for fiber release. All samples collected were placed in plastic bags, labeled, and sealed immediately upon collection. To prevent cross-contamination between samples, the sampling instruments were wiped clean by use of a wet, lint-free cloth after collection of each sample. A unique sample identification number was assigned to each sample. Samples collected remained in the inspector’s custody until sent to the laboratory. Upon completion of sampling activities, the bulk samples were sent, along with Tetra Tech’s chain-of-custody documentation, to EMSL Analytical, Inc. (EMSL) in Hillside, Illinois. Suspect ACM samples were analyzed per EPA Method 600/R-93/116 by EMSL via Polarized Light Microscopy (PLM) analysis. EMSL is a National Voluntary Laboratory Accreditation Program (NVLAP)-certified laboratory, certification number 200844-0. Section 5.0 of this report summarizes ACM analytical results. Floor tile samples were analyzed in accordance with IDPH recommendations for the use of Transmission Electron Microscopy (TEM) for smaller particles that may not be observed by the analyst using PLM methods. **Appendix E** provides ACM analytical results and chain-of-custody forms for bulk samples.

4.0 LBP ASSESSMENT PROTOCOLS

Tetra Tech made every effort to inspect all areas of the subject property. HUD *Guidelines for the Evaluation and Control of LBP in Housing* (HUD 2012) suggests that paint applied before 1978 could contain lead. The assessment was performed on the areas documented in the historical reports as containing lead. An assessment of the current conditions determined that most of the LBP was found to be in poor condition throughout the buildings. The paint had deteriorated as the buildings have been vacant for more than 10 years. They have been exposed to water, heat, cold, and vandalism.

Tetra Tech notes that the removal of LBP is not required prior to demolition, but measures to prevent the dispersal or worker exposure from LBP during demolition and for proper management of LBP containing materials generated during demolition should be incorporated into demolition plans and activities.

5.0 ASBESTOS AND LEAD-BASED PAINT FINDINGS

The laboratory report in **Appendix E** includes PLM results, summarized in Table 2 below, from samples of suspect ACM collected at the subject property buildings. Based on analytical results, Tetra Tech identified additional ACMs not sampled in prior surveys within the areas inspected in the subject property buildings. **Table 2, below, is not an all-inclusive inventory of ACMs located in the buildings; rather it modifies known quantities and incorporates these additional quantities into the all-inclusive list in Appendix B.**

**TABLE 2
SUMMARY OF SUSPECT ACM LABORATORY ANALYSIS
FORMER TINLEY PARK MENTAL HEALTH CENTER CAMPUS**

CDB#	Sample ID	Material Description	Material Locations	PLM-Analytical Result (%ACM ¹)	Quantity
OAK HALL					
BB020	OAK0905-01	Beige Ceramic Wall Tile with associated Grout and Mortar	Oak Hall, Bathrooms	Tile: ND Grout: ND Mortar: ND	NA
BB020	OAK0905-02	Beige Ceramic Wall Tile with associated Grout and Mortar	Oak Hall, Bathrooms	Tile: NP Grout: NP Mortar: NP Skim Coat: ND	NA
BB020	OAK0905-03	Beige Ceramic Wall Tile with associated Grout and Mortar	Oak Hall, Bathrooms	Tile: ND Grout: ND Mortar: ND	NA
BB020	OAK0905-04	Black Sealant on Interior Glass Windows	Oak Hall, Throughout	2% Chrysotile	1,000 LF
BB020	OAK0905-05	Black Sealant on Interior Glass Windows	Oak Hall, Throughout	2% Chrysotile	
BB020	OAK0905-06	Black Sealant on Interior Glass Windows	Oak Hall, Throughout	2% Chrysotile	
BB020	OAK0905-07	Tan Terrazzo Flooring	Oak Hall, Throughout	ND	NA
BB020	OAK0905-08	Tan Terrazzo Flooring	Oak Hall, Throughout	ND	NA
BB020	OAK0905-09	Tan Terrazzo Flooring	Oak Hall, Throughout	ND	NA
BB020	OAK0905-10	Brown Glue Pucks associated with 12" White Ceiling Tiles	Oak Hall, Throughout	ND	NA
BB020	OAK0905-11	Brown Glue Pucks associated with 12" White Ceiling Tiles	Oak Hall, Throughout	ND	NA
BB020	OAK0905-12	Brown Glue Pucks associated with 12" White Ceiling Tiles	Oak Hall, Throughout	ND	NA

CDB#	Sample ID	Material Description	Material Locations	PLM-Analytical Result (%ACM ¹)	Quantity
BB020	OAK0905-13	Window Caulk	Oak Hall, Throughout	ND	NA
BB020	OAK0905-13	Window Caulk	Oak Hall, Throughout	ND	NA
BB020	OAK0905-14	Window Caulk	Oak Hall, Throughout	ND	NA
MAPLE HALL					
BB026	MPL0905-01	Black Caulk on Interior Windows	Maple Hall, Throughout	ND	NA
BB026	MPL0905-02	Black Caulk on Interior Windows	Maple Hall, Throughout	ND	NA
BB026	MPL0905-03	Black Caulk on Interior Windows	Maple Hall, Throughout	ND	NA
BB026	MPL0905-04 ²	12" Pink Vinyl Floor Tile	Maple Hall, 2 nd Floor, Therapy Room	ND ²	NA
BB026	MPL0905-05	12" Pink Vinyl Floor Tile	Maple Hall, 3 rd Floor, Therapy Room	ND ²	NA
BB026	MPL0905-06	12" Pink Vinyl Floor Tile	Maple Hall, 1 st Floor, Office	ND ²	NA
BB026	MPL0905-07	Yellow Mastic associated with 12" Pink VFT	Maple Hall, 2 nd Floor, Therapy Room	ND	NA
BB026	MPL0905-08	Yellow Mastic associated with 12" Pink VFT	Maple Hall, 3 rd Floor, Therapy Room	ND	NA
BB026	MPL0905-09	Yellow Mastic associated with 12" Pink VFT	Maple Hall, 1 st Floor, Office	ND	NA
BB026	MPL0905-10	Terra Cotta Floor Tiles and associated Mortar	Maple Hall, Kitchen	Tile: ND Mortar: ND	NA
BB026	MPL0905-11	Terra Cotta Floor Tiles and associated Mortar	Maple Hall, Kitchen	Tile: ND Mortar: ND	NA
BB026	MPL0905-12	Terra Cotta Floor Tiles and associated Mortar	Maple Hall, Kitchen	Tile: ND Mortar: ND	NA
BB026	MPL0905-13	Beige Ceramic Wall Tile and associated Mortar	Maple Hall, 1 st Floor, Men's Bathroom	Tile: ND Mortar: NP	NA
BB026	MPL0905-14	Beige Ceramic Wall Tile and associated Mortar	Maple Hall, 2 nd Floor, Men's Bathroom	Tile: ND Mortar: ND	NA
BB026	MPL0905-15	Beige Ceramic Wall Tile and associated Mortar	Maple Hall, 1 st Floor, Women's Bathroom	Tile: ND Mortar: ND	NA

CDB#	Sample ID	Material Description	Material Locations	PLM-Analytical Result (%ACM ¹)	Quantity
BB026	MPL0905-16	Textured Ceiling Plaster	Maple Hall, Room 306	ND	NA
BB026	MPL0905-17	Textured Ceiling Plaster	Maple Hall, Room 306	ND	NA
BB026	MPL0905-18	Textured Ceiling Plaster	Maple Hall, Room 306	ND	NA
BB026	MPL0905-19	Black Paper Backing on Fiberglass Inserts inside Metal Ceiling Panels	Maple Hall, Throughout	ND	NA
BB026	MPL0905-20	Black Paper Backing on Fiberglass Inserts inside Metal Ceiling Panels	Maple Hall, Throughout	ND	NA
BB026	MPL0905-21	Black Paper Backing on Fiberglass Inserts inside Metal Ceiling Panels	Maple Hall, Throughout	ND	NA
BB026	MPL0905-22	Roofing Caulk	Maple Hall, Roof	ND	NA
BB026	MPL0905-23	Roofing Caulk	Maple Hall, Roof	ND	NA
BB026	MPL0905-24	Roofing Caulk	Maple Hall, Roof	ND	NA
BB026	MPL0905-25	Brown Ceramic Floor Tile, Mortar	Maple Hall, 1 st Floor Bathroom	Tile: ND Mortar: ND	NA
BB026	MPL0905-26	Brown Ceramic Floor Tile and Mortar	Maple Hall, 2 nd Floor Bathroom	Tile: ND Mortar: ND	NA
BB026	MPL0905-27	Brown Ceramic Floor Tile and Mortar	Maple Hall, 3 rd Floor Bathroom	Tile: ND Mortar: ND	NA
BB026	MPL0905-28	Beige Ceramic Wall Tile, Grout, and Glue	Maple Hall, 1 st Floor Bathroom	Tile: ND Mortar: ND Glue: ND	NA
BB026	MPL0905-29	Beige Ceramic Wall Tile, Grout, and Glue	Maple Hall, 2 nd Floor Bathroom	Tile: ND Mortar: ND Glue: ND	NA
BB026	MPL0905-30	Beige Ceramic Wall Tile, Grout, and Glue	Maple Hall, 3 rd Floor Bathroom	Tile: ND Mortar: ND Glue: ND	NA
SPRUCE HALL					
BB028	SPR0905-01	Insulation behind False Exterior Center Windows	Insulation	Insulation: ND Wrap: 70% Chrysotile	2,600 SF
BB028	SPR0905-02	Insulation behind False Exterior Center Windows	Insulation	Insulation: ND	
BB028	SPR0905-03	Insulation behind False Exterior Center Windows	Insulation	Insulation: ND	

CDB#	Sample ID	Material Description	Material Locations	PLM-Analytical Result (%ACM ¹)	Quantity
BB028	SPR0905-04	Paper Backing on Fiberglass Inserts in Metal Ceiling Panels	Spruce Hall, Throughout	ND	NA
BB028	SPR0905-05	Paper Backing on Fiberglass Inserts in Metal Ceiling Panels	Spruce Hall, Throughout	ND	NA
BB028	SPR0905-06	Paper Backing on Fiberglass Inserts in Metal Ceiling Panels	Spruce Hall, Throughout	ND	NA
BB028	SPR0905-07	Black Sealant around Interior Windows	Spruce Hall, Throughout	8% Chrysotile	1,000 LF
BB028	SPR0905-08	Black Sealant around Interior Windows	Spruce Hall, Throughout	8% Chrysotile	
BB028	SPR0905-09	Black Sealant around Interior Windows	Spruce Hall, Throughout	8% Chrysotile	
BB028	SPR0905-10	Black Door Frame Caulk	Spruce Hall, Throughout	8% Chrysotile	500 LF
BB028	SPR0905-11	Black Door Frame Caulk	Spruce Hall, Throughout	8% Chrysotile	
BB028	SPR0905-12	Black Door Frame Caulk	Spruce Hall, Throughout	8% Chrysotile	
BB028	SPR0905-13	White w/Black Terrazzo Flooring	Spruce Hall, Throughout	ND	NA
BB028	SPR0905-14	White w/Black Terrazzo Flooring	Spruce Hall, Throughout	ND	NA
BB028	SPR0905-15	White w/Black Terrazzo Flooring	Spruce Hall, Throughout	ND	NA
BB028	SPR0905-16	Beige Ceramic Block Walls and Mortar	Spruce Hall, Throughout	Block Wall: ND Mortar: ND	NA
BB028	SPR0905-17	Beige Ceramic Block Walls and Mortar	Spruce Hall, Throughout	Block Wall: ND Mortar: ND	NA
BB028	SPR0905-18	Beige Ceramic Block Walls and Mortar	Spruce Hall, Throughout	Block Wall: ND Mortar: ND	NA
WATER TREATMENT PLANT					
BB006	WTR0906-01	Black Duct Sealant	Water Treatment Plant, Throughout	ND	ND
BB006	WTR0906-02	Black Duct Sealant	Water Treatment Plant, Throughout	ND	ND
BB006	WTR0906-03	Black Duct Sealant	Water Treatment Plant, Throughout	ND	ND
BB006	WTR0906-04	White Wall Seam Caulk	Water Treatment Plant, Throughout	5% Chrysotile	400 LF

CDB#	Sample ID	Material Description	Material Locations	PLM-Analytical Result (%ACM ¹)	Quantity
BB006	WTR0906-05	White Wall Seam Caulk	Water Treatment Plant, Throughout	5% Chrysotile	
BB006	WTR0906-06	White Wall Seam Caulk	Water Treatment Plant, Throughout	5% Chrysotile	
GENERAL MECHANICAL STORAGE/SHOP					
BB030	MCE0906-01	12" White Vinyl Floor Tile	GMS Building, Offices	2.1% Chrysotile ²	50 SF
BB030	MCE0906-02	12" White Vinyl Floor Tile	GMS Building, Offices	2.1% Chrysotile ²	
BB030	MCE0906-03	12" White Vinyl Floor Tile	GMS Building, Offices	2.1% Chrysotile ²	
BB030	MCE0906-04	Black Mastic associated with 12" VFT	GMS Building, Offices	4% Chrysotile	50 SF
BB030	MCE0906-05	Black Mastic associated with 12" VFT	GMS Building, Offices	4% Chrysotile	
BB030	MCE0906-06	Black Mastic associated with 12" VFT	GMS Building, Offices	4% Chrysotile	
BB030	MCE0906-07	Exterior Window Glaze	GMS Building Exterior	3% Chrysotile	1,500 LF
BB030	MCE0906-08	Exterior Window Glaze	GMS Building Exterior	3% Chrysotile	
BB030	MCE0906-09	Exterior Window Glaze	GMS Building Exterior	3% Chrysotile	
BB030	MCE0906-10	2' x 4' Ceiling Tile	GMS Building, Offices	ND	NA
BB030	MCE0906-11	2' x 4' Ceiling Tile	GMS Building, Offices	ND	NA
BB030	MCE0906-12	2' x 4' Ceiling Tile	GMS Building, Offices	ND	NA
BB030	MCE0906-13	Terra Cotta Floor and Mortar	GMS Building, Cold Storage	Tile: ND Mortar: ND	NA
BB030	MCE0906-14	Terra Cotta Floor and Mortar	GMS Building, Cold Storage	Tile: ND Mortar: ND	NA
BB030	MCE0906-15	Terra Cotta Floor and Mortar	GMS Building, Cold Storage	Tile: ND Mortar: ND	NA
BB030	MCE0906-16	Cooler Insulation	GMS Building	ND	NA
BB030	MCE0906-17	Cooler Insulation	GMS Building	ND	NA

CDB#	Sample ID	Material Description	Material Locations	PLM-Analytical Result (%ACM ¹)	Quantity
BB030	MCE0906-18	Cooler Insulation	GMS Building	ND	NA
CEDAR HALL					
BB032	CDR0905-01	Roofing Field	Roof	All Layers: ND	NA
BB032	CDR0905-02	Roofing Field	Roof	All Layers: ND	NA
BB032	CDR0905-03	Roofing Field	Roof	All Layers: ND	NA
BB032	CDR0905-04	Roofing Field	Roof	All Layers: ND	NA
BB032	CDR0905-05	Wood Wool Ceiling Tiles	Cedar Hall, Gymnasium and Mechanical Room	ND	NA
BB032	CDR0905-06	Wood Wool Ceiling Tiles	Cedar Hall, Gymnasium and Mechanical Room	ND	NA
BB032	CDR0905-07	Wood Wool Ceiling Tiles	Cedar Hall, Gymnasium and Mechanical Room	ND	NA
MIMOSA HALL					
BB029	MM0906-01	Plaster Ceiling	Mimosa Hall, Auditorium	Skim Coat: ND Base Coat: ND	NA
BB029	MM0906-02	Plaster Ceiling	Mimosa Hall, Auditorium	Skim Coat: ND Base Coat: ND	NA
BB029	MM0906-03	Plaster Ceiling	Mimosa Hall, Auditorium	Skim Coat: ND Base Coat: ND	NA
BB029	MM0906-04	Tape on Fiberglass Duct Insulation	Mimosa Hall, Throughout	ND	NA
BB029	MM0906-05	Tape on Fiberglass Duct Insulation	Mimosa Hall, Throughout	ND	NA
BB029	MM0906-06	Tape on Fiberglass Duct Insulation	Mimosa Hall, Throughout	ND	NA
BB029	MM0906-07	Chalk/Bulletin Board and Adhesive	Mimosa Hall, Classrooms	Board: ND Adhesive: ND	NA
BB029	MM0906-08	Chalk/Bulletin Board and Adhesive	Mimosa Hall, Classrooms	Board: ND Adhesive: ND	NA
BB029	MM0906-09	Chalk/Bulletin Board and Adhesive	Mimosa Hall, Classrooms	Board: ND Adhesive: ND	NA
BB029	MM0906-10	Red Stage Curtain	Mimosa Hall, Auditorium	ND	NA

CDB#	Sample ID	Material Description	Material Locations	PLM-Analytical Result (%ACM ¹)	Quantity
BB029	MM0906-11	Red Stage Curtain	Mimosa Hall, Auditorium	ND	NA
POOL BUILDING					
BB001	POOL-01	Gymnasium Floor Insulation	Social Hab/Pool Bldg., Gymnasium	ND	NA
BB001	POOL-02	Gymnasium Floor Insulation	Social Hab/Pool Bldg., Gymnasium	ND	NA
BB001	POOL-03	Gymnasium Floor Insulation	Social Hab/Pool Bldg., Gymnasium	ND	NA
WILLOW HALL					
BB019	WIL0906-01	Supply Duct Finish	Willow Hall, Throughout	Mesh: ND Mudding: ND	NA
BB019	WIL0906-02	Supply Duct Finish	Willow Hall, Throughout	Mesh: ND Mudding: ND	NA
BB019	WIL0906-03	Supply Duct Finish	Willow Hall, Throughout	Mesh: ND Mudding: ND	NA

Notes:

- ¹ AHERA defines ACM as any material or product that contains more than 1 percent asbestos.
- ² Sample analyzed by Transmission Electron Microscopy (TEM) methods.
- ³ Assumed to contain asbestos.

Bold text indicates that sampled material is ACM.

%	Percent
"	Inches
'	Feet
ACM	Asbestos-containing material
AHERA	Asbestos Hazard and Emergency Response Act of 1986
ID	Identification
LF	Linear feet
NA	Not applicable
ND	Not detected
NP	Not Present
SF	Square feet

The site asbestos quantity verification included all accessible areas throughout each building on the subject property. Below is a summary of the findings for each of the 47 buildings and the underground tunnels surveyed. **Appendix B** includes a table with further detail and estimated quantities of the ACM and LBP verified in each building. **Appendix C** provides figures for each building or building complex with callouts for the types and quantities of suspected ACM in each.

The following text includes details for ACM identified in 23 buildings that are part of the Howe Development Center, which consists of a series of residential units and associated buildings including a recreation center, administrative buildings, and housing units located on the southwest part of the subject property; the Howe Development Center was constructed in the 1970s, later than other site buildings. Descriptions for other site buildings suspect materials follow the Howe Development Center details.

Howe Development Center Buildings:

CDB Building # B4001 – Social Hab-Pt Building:

The following ACMs were quantified: 1-foot by 1- foot white floor tile and mastic, wood fire doors, fire damper insulation, exhaust backdraft insulation, mastic underneath wood floor, under floor duct pipe and Transite®, rooftop ductwork insulation (black tar covering ductwork), and Transite® light covers. The floor tile with associated mastic and rooftop ductwork insulation were sampled and confirmed as ACMs during the NESHAP Pre-Demolition Asbestos Inspection (ECG 2013b). According to the Asbestos Management Plan Report (Fox 1994), the remaining ACMs were not sampled, and assumed present. No LBP was identified in the previous LBP inspection.

CDB Building # B4100 – Neighborhood House 100

The following ACMs were quantified: 1-foot by 1- foot white floor tile and mastic, fire damper insulation, exhaust backdraft insulation, and Transite® floor duct. The floor tile with associated mastic was sampled and confirmed as ACM during the NESHAP Pre-Demolition Asbestos Inspection (ECG 2013b). According to the Asbestos Management Plan Report (Fox 1994), the remaining ACMs were not sampled and assumed present. No LBP was identified in the previous LBP inspection.

CDB Building # B4101- #B4104 – Residential Units 101-104

The following ACMs were quantified: 1-foot by 1- foot white floor tile and mastic, wood and metal fire doors, fire damper insulation, exhaust backdraft insulation, under floor duct pipe Transite®, and Transite® light covers. According to the Asbestos Management Plan Report (Fox 1994), all ACMs were not sampled and assumed present. No LBP was identified in the previous LBP inspection.

CDB Building # B4105- #B4107 – Residential Units 105-107

The following ACMs were quantified: 1-foot by 1- foot white floor tile and mastic, wood and metal fire doors, fire damper insulation, exhaust backdraft insulation, under floor duct pipe Transite®, and Transite® light covers. According to the Asbestos Management Plan Report (Fox 1994), all ACMs were not sampled and assumed present. No LBP was identified in the previous LBP inspection.

CDB Building # B4108- #B4110 – Residential Units 108-110

The following ACMs were quantified: 1-foot by 1- foot white floor tile and mastic, wood and metal fire doors, fire damper insulation, exhaust backdraft insulation, under floor duct pipe Transite®, and Transite® light covers. According to the Asbestos Management Plan Report (Fox 1994), all ACMs were not sampled and assumed present. No LBP was identified in the previous LBP inspection.

CDB Building # B4200 – Neighborhood House 200

The following ACMs were quantified: 1-foot by 1- foot white floor tile and mastic, fire damper insulation, exhaust backdraft insulation, exterior window caulk, and Transite® floor duct. The exterior window caulk was sampled and confirmed as ACM during the NESHAP Pre-Demolition Asbestos Inspection (ECG 2013b). According to the Asbestos Management Plan Report (Fox 1994), the remaining ACMs were not sampled and assumed present. No LBP was identified in the previous LBP inspection.

CDB Building # B4202- #B4204 – Residential Units 201-204

The following ACMs were quantified: 1-foot by 1- foot white floor tile and mastic, wood fire and metal doors, fire damper insulation, exhaust backdraft insulation, built-up roof and flashing, under floor duct pipe Transite®, and Transite® light covers. The floor tile with associated mastic was sampled and confirmed as ACM during the NESHAP Pre-Demolition Asbestos Inspection (ECG 2013b). According to the Asbestos Management Plan Report (Fox 1994), the remaining ACMs were not sampled and assumed present. No LBP was identified in the previous LBP inspection.

CDB Building # B4205- #B4207 – Residential Units 205-207

The following ACMs were quantified: 1-foot by 1- foot white floor tile and mastic, wood fire and metal doors, fire damper insulation, exhaust backdraft insulation, built-up roof and flashing, under floor duct pipe Transite®, and Transite® light covers. According to the Asbestos Management Plan Report (Fox 1994), all ACMs were not sampled and assumed present. No LBP was identified in the previous LBP inspection.

CDB Building # B4208- #B4210 – Residential Units 208-210

The following ACMs were quantified: 1-foot by 1- foot white floor tile and mastic, wood fire and metal doors, fire damper insulation, exhaust backdraft insulation, built-up roof and flashing, under floor duct pipe Transite®, and Transite® light covers. According to the Asbestos Management Plan Report (Fox 1994), all ACMs were not sampled and assumed present. No LBP was identified in the previous LBP inspection.

CDB Building # B4300 – Neighborhood House 300

The following ACMs were quantified: 1-foot by 1- foot white floor tile and mastic, fire damper insulation, exhaust backdraft insulation, and Transite® floor duct. According to the Asbestos Management Plan Report

(Fox 1994), all ACMs were not sampled and assumed present. No LBP was identified in the previous LBP inspection.

CDB Building # B4301- #B4304 – Residential Units 301-304

The following ACMs were quantified: 1-foot by 1- foot white floor tile and mastic, wood fire and metal doors, fire damper insulation, exhaust backdraft insulation, under floor duct pipe Transite®, and Transite® light covers. According to the Asbestos Management Plan Report (Fox 1994), all ACMs were not sampled and assumed present. No LBP was identified in the previous LBP inspection.

CDB Building # B4305- #B4307 – Residential Units 305-307

The following ACMs were quantified: 1-foot by 1- foot white floor tile and mastic, wood fire and metal doors, fire damper insulation, exhaust backdraft insulation, under floor duct pipe Transite®, and Transite® light covers. According to the Asbestos Management Plan Report (Fox 1994), all ACMs were not sampled and assumed present. No LBP was identified in the previous LBP inspection.

CDB Building # B4308- #B4310 – Residential Units 308-310

The following ACMs were quantified: 1-foot by 1- foot white floor tile and mastic, wood fire and metal doors, fire damper insulation, exhaust backdraft insulation, under floor duct pipe Transite®, and Transite® light covers. According to the Asbestos Management Plan Report (Fox 1994), all ACMs were not sampled and assumed present. No LBP was identified in the previous LBP inspection.

CDB Building # B4400 – Neighborhood House 400

The following ACMs were quantified: 1-foot by 1- foot white floor tile and mastic, fire damper insulation, exhaust backdraft insulation, and Transite® floor duct. According to the Asbestos Management Plan Report (Fox 1994), all ACMs were not sampled and assumed present. No LBP was identified in the previous LBP inspection.

CDB Building # B4401- #B4404 – Residential Units 401-404

The following ACMs were quantified: 1-foot by 1- foot white floor tile and mastic, wood and metal fire doors, fire damper insulation, exhaust backdraft insulation, under floor duct pipe Transite®, built-up roof and flashing, and Transite® light covers. According to the Asbestos Management Plan Report (Fox 1994), all ACMs were not sampled and assumed present. No LBP was identified in the previous LBP inspection.

CDB Building # B4405- #B4407 – Residential Units 405-407

The following ACMs were quantified: 1-foot by 1- foot white floor tile and mastic, wood and metal fire doors, fire damper insulation, exhaust backdraft insulation, under floor duct pipe Transite®, built-up roof and

flashing, and Transite® light covers. According to the Asbestos Management Plan Report (Fox 1994), all ACMs were not sampled and assumed present. No LBP was identified in the previous LBP inspection.

CDB Building # B4408- #B44010 – Residential Units 408-410

The following ACMs were quantified: 1-foot by 1- foot white floor tile and mastic, wood and metal fire doors, fire damper insulation, exhaust backdraft insulation, and built-up roof and flashing. According to the Asbestos Management Plan Report (Fox 1994), all ACMs were not sampled and assumed present. No LBP was identified in the previous LBP inspection.

CDB Building # B4500 – Neighborhood House 500

The following ACMs were quantified: 1-foot by 1- foot white floor tile and mastic, fire damper insulation, exhaust backdraft insulation, and Transite® floor duct. According to the Asbestos Management Plan Report (Fox 1994), all ACMs were not sampled and assumed present. No LBP was identified in the previous LBP inspection.

CDB Building # B4501- #B4504 – Residential Units 501-504

The following ACMs were quantified: 1-foot by 1- foot white floor tile and mastic, wood and metal fire doors, fire damper insulation, exhaust backdraft insulation, under floor duct pipe Transite®, built-up roof and flashing, and Transite® light covers. According to the Asbestos Management Plan Report (Fox 1994), all ACMs were not sampled and assumed present. No LBP was identified in the previous LBP inspection.

CDB Building # B4505- #B4507 – Residential Units 505-507

The following ACMs were quantified: 1-foot by 1- foot white floor tile and mastic, wood and metal fire doors, fire damper insulation, exhaust backdraft insulation, under floor duct pipe Transite®, built-up roof and flashing, and Transite® light covers. According to the Asbestos Management Plan Report (Fox 1994), all ACMs were not sampled and assumed present. No LBP was identified in the previous LBP inspection.

CDB Building # B4508- #B4510 – Residential Units 508-510

The following ACMs were quantified: 1-foot by 1- foot white floor tile and mastic, wood and metal fire doors, fire damper insulation, exhaust backdraft insulation, under floor duct pipe Transite®, built-up roof and flashing, and Transite® light covers. According to the Asbestos Management Plan Report (Fox 1994), all ACMs were not sampled and assumed present. No LBP was identified in the previous LBP inspection.

CDB Building # B4002 – Personnel Building #2

The following ACMs were quantified: 1-foot by 1- foot white floor tile and mastic, fire damper insulation, exhaust backdraft insulation, under floor duct pipe Transite®, built-up roof and flashing, and carpet

adhesive. According to the Asbestos Management Plan Report (Fox 1994), all ACMs were not sampled and assumed present. No LBP was identified in the previous LBP inspection.

CDB Building # B4003 – Administration Building #3

The following ACMs were quantified: 1-foot by 1-foot white floor tile and mastic, fire damper insulation, exhaust backdraft insulation, under floor duct pipe Transite®, built-up roof and flashing, and carpet adhesive. According to the Asbestos Management Plan Report (Fox 1994), all ACMs were not sampled and assumed present. No LBP was identified in the previous LBP inspection.

Buildings Other Than the Howe Development Center:

CDB Building # BB001 – Pump House #1

The following ACMs were quantified: cementitious fittings on cementitious insulation, cementitious pipe insulation, air cell pipe insulation, cementitious insulation on electrical conduit, and built-up roof and flashing. According to the Asbestos Management Plan Report (Fox 1994), all these ACMs were sampled and confirmed to be ACMs except for the electrical wiring and components inside the power panels, built-up roof and flashing, which was assumed to be ACM. No LBP was identified in the previous LBP inspection.

CDB Building # BB002 – Pump House #2

The following ACMs were quantified: cementitious pipe wrap and built-up roof. According to the Asbestos Management Plan Report (Fox 1994), the cementitious pipe wrap was sampled and confirmed to be ACM, the electrical wiring, the components inside power panels, and the built-up roof were not sampled and are assumed to be ACM. No LBP was identified in the previous LBP inspection.

CDB Building # BB003 – Pump House #3

The following ACMs were quantified: cementitious pipe wrap and built-up roof. According to the Asbestos Management Plan Report (Fox 1994), the cementitious pipe wrap was sampled and confirmed to be ACM, the electrical wiring, the components inside power panels, and built-up roof was not sampled and are assumed to be ACM. No LBP was identified in the previous LBP inspection.

CDB Building # BB019 – Willow Hall

The following ACMs were quantified: sprayed-on speckled plaster ceiling, insulation on ventilation duct, flue insulation mag block, cementitious pipe insulation fittings, cementitious fittings on fiberglass or air cell pipe, cementitious pipe insulation, air cell pipe insulation, exterior wall paneling, and stockpiled insulation mag block. According to the NESHAP Pre-Demolition Asbestos Inspection (ECG 2013b) and the Asbestos Management Plan Report (Fox 1994), all these ACMs were sampled and confirmed to be ACMs except for the electrical wiring, the components of the electrical panels, and the fire hoses. The sprayed-on plaster

ceilings are significantly damaged and have contaminated large portions of the building. No LBP was identified in the previous LBP inspection.

CDB Building # B4031 – Pine Hall

The following ACMs were quantified: insulation on ventilation duct, cementitious pipe insulation fittings, cementitious fittings on fiberglass or air cell pipe, cementitious pipe insulation, air cell pipe insulation, flash tank cementitious insulation, 9-inch by 9-inch floor tile with associated mastic, 1-foot by 1-foot white floor tile with associated mastic, and fire doors. According to the NESHAP Pre-Demolition Asbestos Inspection (ECG 2013b) and the Asbestos Management Plan Report (Fox 1994), all these ACMs were sampled and confirmed to be ACMs, except for the fire doors, electrical wiring, and the components of the electrical panels, which are assumed to be ACM. No LBP was identified in the previous LBP inspection.

CDB Building # BB006 – Water Treatment Plant #6

The following ACMs were quantified: cementitious boiler insulation, boiler flue insulation, cementitious fitting insulation on air cell pipe, cementitious fitting insulation on cementitious insulation, air cell pipe insulation, cementitious pipe insulation, cementitious insulation on electrical conduit, cementitious tank insulation, brick base, boiler gasket insulation rope, metal fire doors, built-up roof, exhaust backdraft damper insulation, asbestos stockpile, boiler door insulation, interior window glaze, white seam caulk on walls, and cementitious fittings on fiberglass insulation. According to the NESHAP Pre-Demolition Asbestos Inspection (ECG 2013b) and the Asbestos Management Plan Report (Fox 1994), all these ACMs were sampled and confirmed to be ACMs, except for the fire doors, electrical wiring, components inside power panels, built-up roofing, exhaust backdraft damper insulation, asbestos stockpile, and cementitious fittings on fiberglass insulation, which were not sampled and were assumed to be ACMs. LBP was identified in the previous LBP inspection report and is detailed in **Appendix F**.

CDB Building # BB008 – Power Plant #8

The following ACMs were quantified: boiler insulation including the demolition and removal of all boiler components, flue insulation, cementitious fitting on electrical conduit, cementitious pipe fitting, cementitious fitting on fiberglass insulation, air cell pipe fitting, cementitious pipe insulation, air cell pipe insulation, cementitious insulation on water softener tank, cementitious insulation on holding tank, cementitious insulation on hot water tank, cementitious insulation on condensate tanks, cementitious insulation on oil heating convert, feed water tank, boiler gaskets, 9-inch by 9-inch vinyl tile with associated mastic, exhaust backdraft damper insulation, and asbestos stockpile. According to the NESHAP Pre-Demolition Asbestos Inspection (ECG 2013a) and the Asbestos Management Plan Report (Fox 1994), all these ACMs were sampled and confirmed to be ACMs except for the exhaust backdraft damper insulation, electrical wiring, the components inside power panels, asbestos stockpile, and 9-inch by 9-inch vinyl tile with associated

mastic, which were not sampled and were assumed to be ACMs. LBP was identified in the previous LBP inspection report and is detailed in **Appendix F**.

CDB Building # BB020 – Oak Hall #20

The following ACMs were quantified: cementitious insulation on ducts, cementitious pipe fitting, fitting on air cell pipe, cementitious pipe insulation, air cell pipe insulation, cementitious insulation on electrical conduit, cementitious material on booster pump, 1-foot by 1-foot vinyl floor tile with associated mastic, wood and metal fire doors, vibration damper insulation, black sealant on interior windows, fire damper insulation, exhaust backdraft damper insulation, Transite® pipe, and asbestos stockpile. According to the NESHAP Pre-Demolition Asbestos Inspection (ECG 2013a) and the Asbestos Management Plan Report (Fox 1994), all these ACMs were sampled and confirmed to be ACMs, except for the electrical wiring, components inside power panels, fire hoses, and fire doors, which were not sampled and were assumed to be ACM. No LBP was identified in the previous LBP inspection.

CDB Building # BB021 – Hickory Hall #21

The following ACMs were quantified: cementitious pipe fittings, cementitious pipe fitting on air cell pipe, cementitious pipe fitting on fiberglass pipe, cementitious pipe insulation, air cell pipe insulation, cementitious insulation on electrical conduit, booster tank insulation, vinyl floor sheeting with mastic, 9-inch by 9-inch floor tile with associated mastic, 1-foot by 1-foot floor tile with associated mastic, metal fire doors, built-up roof and flashing, cementitious backdraft damper insulation, fire damper insulation, mastic under carpet, and mastic under rubberized floor. According to the Asbestos Management Plan Report (Fox 1994), all these ACMs were sampled and confirmed to be ACMs, except for the vinyl floor sheeting with mastic, 9-inch by 9-inch floor tile with associated mastic, 1-foot by 1-foot floor tile with associated mastic, metal fire doors, built-up roof and flashing, cementitious backdraft damper insulation, electrical wiring, components inside power panels, fire hoses, fire damper insulation, mastic under carpet, and mastic under rubberized floor, which were not sampled and were assumed to be ACM. No LBP was identified in the previous LBP inspection.

CDB Building # BB022 – Sycamore Hall # 22

The following ACMs were quantified: cementitious fitting on hot water heating pipe, cementitious fitting on air cell pipe, cementitious fitting on fiberglass, cementitious insulation on hot water heating pipe, air cell pipe insulation, cementitious insulation on electrical conduit, booster tank insulation, 9-inch by 9-inch floor tile with associated mastic, 1-foot by 2-foot floor tile with associated mastic, wood and metal fire doors, mastic under vinyl floor, exterior window caulk and glazing, and interior window glazing. According to the NESHAP Pre-Demolition Asbestos Inspection (ECG 2013a) and the Asbestos Management Plan Report (Fox 1994), all these ACMs were sampled and confirmed to be ACMs except for the 9-inch by 9-inch floor tile with associated mastic, 1-foot by 2-foot floor tile with associated mastic, 1-foot by 1-foot floor tile with

associated mastic, wood and metal fire doors, electrical wiring, the components inside power panels, fire hoses, and mastic under vinyl floor, which were not sampled and were assumed to be ACMs. No LBP was identified in the previous LBP inspection.

CDB Building # BB025 – Garage Building # 25

The following ACMs were quantified: cementitious tank insulation, cementitious insulation on water tank #2, 9-inch by 9-inch floor tile with associated mastic, fire damper insulation, metal fire door, insulation on exhaust backdraft dampers, cementitious pipe fitting insulation on cementitious insulation, cementitious pipe insulation on air cell, cementitious pipe fitting on fiberglass pipe, cementitious insulation, air cell insulation, cementitious insulation on electrical conduit, and window caulking. According to the NESHAP Pre-Demolition Asbestos Inspection (ECG 2013b) and the Asbestos Management Plan Report (Fox 1994), all these ACMs were sampled and confirmed to be ACMs except for the 9-inch by 9-inch floor tile with associated mastic, fire damper insulation, metal fire doors, electrical wiring, the components inside electrical panels, and insulation in exhaust backdraft damper, which were not sampled and were assumed to be ACMs. No LBP was identified in the previous LBP inspection.

CDB Building # BB026 – Maple Hall #26

The following ACMs were quantified: cementitious insulation on ducts, cementitious fittings, cementitious fitting on fiberglass pipe, cementitious pipe insulation, cementitious material on booster pump, rope insulation around access panel, 9-inch by 9-inch light brown floor tile with associated mastic, 1-foot by 1-foot white and beige with brown floor tile with associated mastic, metal and wood fire doors, fire damper insulation, exhaust backdraft dampers, vibration damper insulation, carpet and mastic door, Transite® duct under door, and Transite® louvers. According to the NESHAP Pre-Demolition Asbestos Inspection (ECG 2013b) and the Asbestos Management Plan Report (Fox 1994), all these ACMs were sampled and confirmed to be ACMs except for the wood and metal fire doors, fire damper insulation, exhaust backdraft dampers, vibration damper insulation, electrical wiring and components inside power panels, carpet mastics, Transite® duct under door, and Transite® louvers, which were not sampled and were assumed to be ACMs. No LBP was identified in the previous LBP inspection.

CDB Building # BB027 – Administration Building #27

The following ACMs were quantified: cementitious fittings on pipe, cementitious pipe insulation, cementitious air cell pipe insulation, cementitious insulation on flash tank, cementitious insulation on hot water tank, Transite® siding around cooling tower, 9-inch by 9-inch floor tile with associated mastic, 1-foot by 1-foot floor tile with associated mastic, metal fire doors, and fire damper insulation. According to the NESHAP Pre-Demolition Asbestos Inspection (ECG 2013b) and the Asbestos Management Plan Report (Fox 1994), all these ACMs were sampled and confirmed to be ACMs except for the wood and metal fire doors, fire damper insulation, exhaust backdraft dampers, vibration damper insulation, carpet mastics,

electrical wiring, the components inside power panels, Transite® duct under door, and Transite® louvers, which were not sampled and were assumed to be ACMs. No LBP was identified in the previous LBP inspection.

CDB Building # BB028 – Spruce Hall #28

The following ACMs were quantified: sprayed-on plaster ceiling, insulation behind false exterior center windows, cementitious fittings on fiberglass pipe insulation, cementitious fittings, cementitious fitting on air cell pipe, cementitious pipe insulation, air cell pipe insulation, cementitious insulation on conversion tank, 9-inch by 9-inch floor tile with associated mastic, black sealant around interior windows, black caulk around door frames, metal fire doors, vibration damper, fire damper insulation, white linoleum flooring, and exhaust backdraft damper. According to the NESHAP Pre-Demolition Asbestos Inspection (ECG 2013b) and the Asbestos Management Plan Report (Fox 1994), all these ACMs were sampled and confirmed to be ACMs except for the 9-inch by 9-inch floor tile with associated mastic, metal fire doors, vibration damper, fire damper insulation, electrical wiring, the components inside power panels, and exhaust backdraft damper, which were not sampled and were assumed to be ACMs. No LBP was identified in the previous LBP inspection.

CDB Building # BB029 – Mimosa Hall #29

The following ACMs were quantified: fittings on air cell pipe, fittings on cementitious pipe, fitting on fiberglass pipe, air cell pipe insulation, cementitious pipe insulation, cementitious insulation on booster tank, insulation on chiller tank, 9-inch by 9-inch floor tile with associated mastic, 1-foot by 1-foot floor tile with associated mastic, mastic under wood floor, carpet mastic over vinyl tile, wood and metal fire doors, canvas vibration damper, fire damper insulation, Transite® at cooling tower, and exhaust backdraft damper. According to the Asbestos Management Plan Report (Fox 1994), all these ACMs were sampled and confirmed to be ACMs except for the 9-inch by 9-inch floor tile with associated mastic, 1-foot by 1-foot floor tile with associated mastic, mastic under wood floor, carpet mastic over vinyl tile, wood and metal fire doors, canvas vibration damper, fire damper insulation, Transite® at cooling tower, electrical wiring, the components inside power panels, and exhaust backdraft damper, which were not sampled and were assumed to be ACMs. No LBP was identified in the previous LBP inspection.

CDB Building # BB030 – Gen Mech Store/Shop #30

The following ACMs were quantified: cementitious pipe fitting on air cell pipe, cementitious fittings on fiberglass pipe, cementitious pipe fitting on cementitious pipe, cementitious insulation on heat exchanger, air cell pipe insulation, cementitious pipe insulation, cementitious tank insulation, 9-inch by 9-inch floor tile with associated mastic, 1-foot by 1-foot floor tile with associated mastic, exterior window glazing, insulation inside fire damper access panel, metal fire doors, exhaust backdraft damper insulation, mastic sealant around conduit insulation, and asbestos stockpile. According to the Asbestos Management Plan Report

(Fox 1994), all these ACMs were sampled and confirmed to be ACMs except for the 9-inch by 9-inch floor tile with associated mastic, insulation inside fire damper access panel, metal fire doors, exhaust backdraft damper insulation, mastic sealant around conduit insulation, electrical wiring and components inside power panels, and asbestos stockpile, which were not sampled and were assumed to be ACMs. LBP was identified in the previous LBP inspection report and is detailed in **Appendix F**.

CDB Building # BB032 – Cedar Hall #32

The following ACMs were quantified: cementitious fittings on air cell pipe, cementitious fittings on fiberglass pipe, cementitious fittings on cementitious pipe, cementitious pipe insulation, 9-inch by 9-inch floor tile with associated mastic, 1-foot by 1-foot floor tile with associated mastic, sheet goods with mastic, metal fire doors, built-up roof, mastic under wood floor, exhaust backdraft damper, white linoleum flooring, and fire damper insulation. According to the NESHAP Pre-Demolition Asbestos Inspection (ECG 2013a) and the Asbestos Management Plan Report (Fox 1994), all these ACMs were sampled and confirmed to be ACMs except for the 9-inch by 9-inch floor tile with associated mastic, 1-foot by 1-foot floor tile with associated mastic, sheet goods with mastic, metal fire doors, built-up roof, mastic under wood floor, exhaust backdraft damper, electrical wiring, the components inside power panels, and fire damper insulation, which were not sampled and were assumed to be ACMs. LBP was identified in the previous LBP inspection report and is detailed in **Appendix F**.

CDB Building # B4114 – Cottage #1 Building #24

The following ACMs were quantified: 1-foot by 1-foot floor tile with associated mastic, metal fire doors, fire damper insulation, and exhaust backdraft damper insulation. According to the Asbestos Management Plan Report (Fox 1994), all these ACMs were not sampled and were assumed present as ACMs. No LBP was identified in the previous LBP inspection.

CDB Building # B4214 – Cottage #2 Building #44

The following ACMs were quantified: 1-foot by 1-foot floor tile with associated mastic, metal fire doors, fire damper insulation, and exhaust backdraft damper insulation. According to the Asbestos Management Plan Report (Fox 1994), all these ACMs were not sampled and were assumed present as ACMs. No LBP was identified in the previous LBP inspection.

CDB Building # B4314 – Cottage #3 Building #45

The following ACMs were quantified: 1-foot by 1-foot floor tile with associated mastic, metal fire doors, fire damper insulation, and exhaust backdraft damper insulation. According to the Asbestos Management Plan Report (Fox 1994), all these ACMs were not sampled and were assumed present as ACMs. LBP was identified in the previous LBP inspection report and is detailed in **Appendix F**.

CDB Building # B4414 – Cottage #4 Building #42

The following ACMs were quantified: 1-foot by 1-foot floor tile with associated mastic, metal fire doors, fire damper insulation, and exhaust backdraft damper insulation. The floor tile with associated mastic was sampled, and the floor tile was confirmed to be ACM during the 2013 NESHAP Pre-Demolition Asbestos Inspection (ECG 2013a). According to the Asbestos Management Plan Report (Fox 1994), the remaining ACMs were not sampled and were assumed present as ACMs. No LBP was identified in the previous LBP inspection.

CDB Building # B4514 – Cottage #5 Building #43

The following ACMs were quantified: metal fire doors, fire damper insulation, and exhaust backdraft damper insulation. According to the Asbestos Management Plan Report (Fox 1994), all these ACMs were not sampled and were assumed present as ACMs. No LBP was identified in the previous LBP inspection.

CDB Building # B4614 – Cottage #6 Building #40

The following ACMs were quantified: 1-foot by 1-foot floor tile with associated mastic, metal fire doors, fire damper insulation, and exhaust backdraft damper insulation. According to the Asbestos Management Plan Report (Fox 1994), all these ACMs were not sampled and were assumed present as ACMs. No LBP was identified in the previous LBP inspection.

CDB Building # B4714 – Cottage #7 Building #41

The following ACMs were quantified: metal fire doors, fire damper insulation, and exhaust backdraft damper insulation. According to the Asbestos Management Plan Report (Fox 1994), all these ACMs were not sampled and were assumed present as ACMs. No LBP was identified in the previous LBP inspection.

Tunnels

The following ACMs were quantified: thermal systems insulation (TSI) of various pipe sizes and TSI joints. No previous survey reports or Asbestos Management Plans were available regarding the tunnels; therefore, due to the age of the material, all TSI (excluding the fiberglass insulation), electrical wiring, and the electrical panel components were assumed to be ACM. No information on LBP sampling in the tunnels was provided; based on visual observation, minimal painted surfaces were present in the tunnels.

6.0 SUMMARY AND CONCLUSIONS

Based on survey observations and sample analytical results, Tetra Tech presents the following conclusions and offers the following recommendations for actions before renovation of the subject property building:

Tetra Tech believes that sufficient information concerning the types and quantities of ACM and LBP is present to solicit bids for pre-demolition abatement. ACM will require significant abatement prior to demolition and LBP surfaces can be managed during demolition with little impact to demolition costs, so long as measures are taken to prevent dispersal of LBP and to protect workers during demolition or abatement activities.

Abatement will require use of an Illinois licensed asbestos removal contractor and should include third-party oversight and air monitoring by an Illinois licensed asbestos professional during abatement and clearance sampling prior to release for open demolition.

7.0 ASSUMPTIONS AND DEVIATIONS

All areas of the subject property building were inspected for suspect ACM and LBP. Because of limitations on destructive sampling methods, additional suspect materials may be present but not detected in walls, voids, or other concealed areas. Tetra Tech identified suspect asbestos-containing fire doors, vibration dampening cloth, electric panels, and crane brake pads in the building. To maintain the integrity of these materials, samples were not collected. Tetra Tech recommends that if the suspect fire doors, vibration dampening cloth, electric panels, or crane brake pads are to be disturbed during renovations, these materials should be sampled to determine their asbestos content. Tetra Tech inspected all other accessible areas of the subject property buildings.

8.0 REFERENCES

- Environmental Consulting Group (ECG). 2013a. Lead-Based Paint Screening Inspection Report. Tinley Park Mental Health Center and Howe Development Center. September 25
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- Fox and Fox Architects & Engineers (Fox). 1994. Asbestos Management Plan Report. Howe Mental Health Center, Department of Mental Health and Development Disabilities. October 10
- Agency for Toxic Substance and Disease Registry (ATSDR). 2008. Asbestos: Health Effects. Accessed February 10, 2014. http://www.atsdr.cdc.gov/asbestos/asbestos/health_effects/
- U.S. Department of Housing and Urban Development (HUD). 2012. *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing*.

APPENDIX A: PHOTOLOG



Photographic Documentation

**Tinley Park Mental Health Center
Tinley Park, Illinois
Supplemental Pre-Demolition Survey**

Photograph No. 1

Maple Hall
Flooded Basement and
Debris



Photograph No. 2

Maple Hall
Black Sealant on Interior
Windows





Photographic Documentation

Tinley Park Mental Health Center
Tinley Park, Illinois
Supplemental Pre-Demolition Survey

Photograph No. 3

Maple Hall
Current Conditions



Photograph No. 4

Spruce Hall
Insulation behind False
Exterior Windows
(Center Windows)



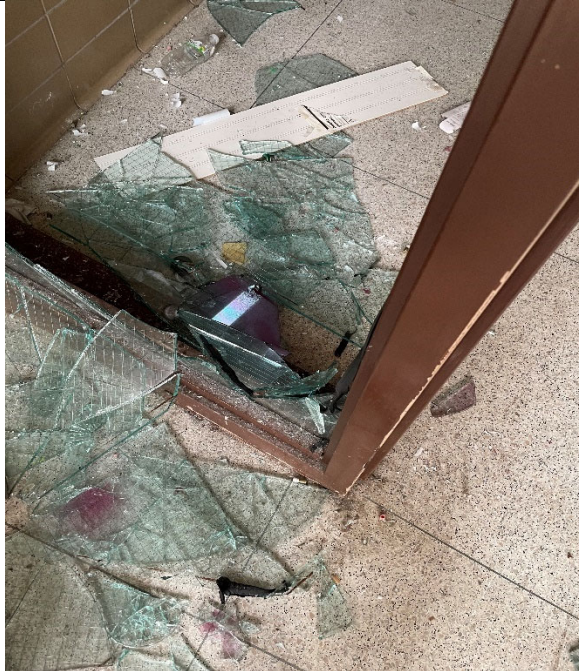


Photographic Documentation

Tinley Park Mental Health Center
Tinley Park, Illinois
Supplemental Pre-Demolition Survey

Photograph No. 5

Spruce Hall
Black Sealant on Interior
Windows



Photograph No. 6

Spruce Hall
Interior Door Caulk





Photographic Documentation

Tinley Park Mental Health Center
Tinley Park, Illinois
Supplemental Pre-Demolition Survey

Photograph No. 7

Spruce Hall
Basement Access Flooded



Photograph No. 8

Water Treatment Plant
Wall Seam Caulk





Photographic Documentation

Tinley Park Mental Health Center
Tinley Park, Illinois
Supplemental Pre-Demolition Survey

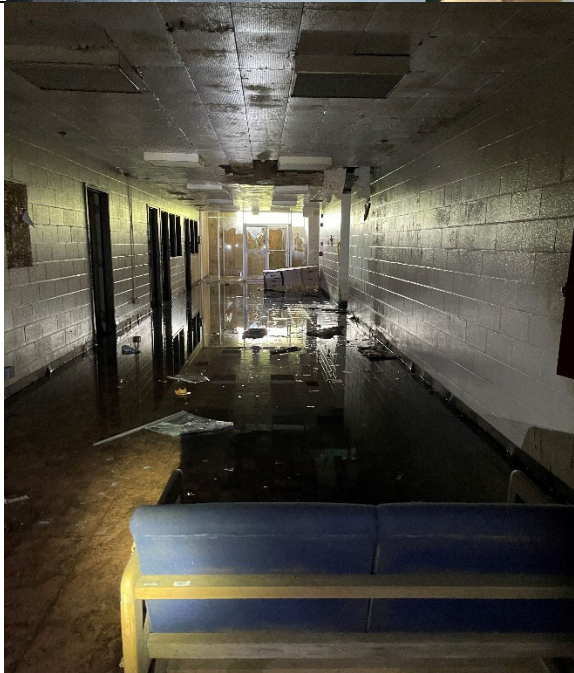
Photograph No. 9

Water Treatment Plant
Lower-Level Access Flooded



Photograph No. 10

Mimosa Hall
1st Floor Flooding





Photographic Documentation

Tinley Park Mental Health Center
Tinley Park, Illinois
Supplemental Pre-Demolition Survey

Photograph No. 11

Willow Hall
ACM Acoustical Ceiling with
Significant Damage and
Debris throughout the
building.



Photograph No. 12

Willow Hall
Insulation of Ventilation Ducts
(Non-ACM)





Photographic Documentation

Tinley Park Mental Health Center
Tinley Park, Illinois
Supplemental Pre-Demolition Survey

Photograph No. 13

Willow Hall
Flooded Basement



Photograph No. 14

Cedar Hall
Flooded Basement





Photographic Documentation

Tinley Park Mental Health Center
Tinley Park, Illinois
Supplemental Pre-Demolition Survey

Photograph No. 15

Cedar Hall
ACM Firehouse



Photograph No. 16



Tunnels





Photographic Documentation

Tinley Park Mental Health Center
Tinley Park, Illinois
Supplemental Pre-Demolition Survey

<p>Photograph No. 17</p> <p>Tunnels</p>	
<p>Photograph No. 18</p> <p>Tunnels</p>	



Photographic Documentation

Tinley Park Mental Health Center
Tinley Park, Illinois
Supplemental Pre-Demolition Survey

Photograph No. 19

Residential Unit 501
Typical Unit with Transite
Duct under Flooring



Photograph No. 20

Residential Unit 501
Laminate Flooring over ACM
Floor Tiles/ACM Mastic





Photographic Documentation

Tinley Park Mental Health Center
Tinley Park, Illinois
Supplemental Pre-Demolition Survey

Photograph No. 21

Sycamore Hall
Conditions in Basement



Photograph No. 22

Sycamore Hall
Conditions in Basement





Photographic Documentation

Tinley Park Mental Health Center
Tinley Park, Illinois
Supplemental Pre-Demolition Survey

Photograph No. 23

Hickory Hall
Conditions



Photograph No. 24

Hickory Hall
Conditions





Photographic Documentation

Tinley Park Mental Health Center
Tinley Park, Illinois
Supplemental Pre-Demolition Survey

Photograph No. 25

Oak Hall
Conditions on First Floor



Photograph No. 26

Oak Hall
Access to Basement



APPENDIX B: REVISED QUANTITIES

Appendix B

Quantifications of ACM and LBP for Each Building		
CDB Building # B4001 – Social Hab-Pt Building		
Material	Quantity	Notes
1' X 1' Floor Tile and Mastic	14,023 SF	None
Fire Doors - Wood	7 each	None
Fire Damper Insulation	20 SF	None
Exhaust Backdraft Damper Insulation	50 each	None
Mastic under Wood Floor	7,960 SF	None
Ductwork Insulation on Roof	300 SF	Black tar covering parts of the fiberglass insulation on ducts
Under floor duct pipe and transite	690 LF	Material is inaccessible, estimate is based on 1994 Fox OM Plan
Transite Light Covers	60 each	None
CDB Building # B4100 – Neighborhood House 100		
Material	Quantity	Notes
1' X 1' Floor Tile and Mastic	2,220 SF	None
Insulation on Fire Damper	15 each	None
Exhaust Backdraft Damper Insulation	15 each	None
Transite Floor Duct	300 LF	Material is inaccessible, estimate is based on 1994 Fox OM Plan
CDB Building # B4101- #B4104 – Residential Units 101-104		
Material	Quantity	Notes
1' X 1' Floor Tile and Mastic	32 SF	Abatement has removed most of this material
Fire Door - Metal	8 each	Only metal fire doors were present; no wood fire doors were identified
Insulation on Fire Damper	60 SF	None
Exhaust Backdraft Damper Insulation	60 each	None
Transite Floor Duct	1,200 LF	Material is inaccessible, estimate is based on 1994 Fox OM Plan
Light Covers	56 each	None
CDB Building # B4105- #B4107 – Residential Units 105-107		
Material	Quantity	Notes
1' X 1' Floor Tile and Mastic	24 SF	Abatement has removed most of this material
Fire Door - Wood	3 each	None
Fire Door - Metal	3 each	None
Insulation on Fire Damper	45 SF	None
Exhaust Backdraft Damper Insulation	45 each	None
Transite Floor Duct	900 LF	Material is inaccessible, estimate is based on 1994 Fox OM Plan
Light Covers	42 each	None
CDB Building # B4108- #B4110 – Residential Units 108-110		
Material	Quantity	Notes
1' X 1' Floor Tile and Mastic	24 SF	Abatement has removed most of this material
Fire Door - Wood	3 each	None
Fire Door - Metal	3 each	None
Insulation on Fire Damper	45 SF	None
Exhaust Backdraft Damper Insulation	45 each	None
Transite Floor Duct	900 LF	Material is inaccessible, estimate is based on 1994 Fox OM Plan
Light Covers	42 each	None
CDB Building # B4200 – Neighborhood House 200		
Material	Quantity	Notes
1' X 1' Floor Tile and Mastic	2,240 SF	None
Insulation on Fire Damper	15 SF	None
Exhaust Backdraft Damper Insulation	15 each	None
Transite Floor Duct	300 LF	Material is inaccessible, estimate is based on 1994 Fox OM Plan
Window Caulking	225 LF	None
CDB Building # B4201- #B4204 – Residential Units 201-204		
Material	Quantity	Notes
1' X 1' Floor Tile and Mastic	10,160 SF	None
Fire Door - Wood	4 each	None
Fire Door - Metal	4 each	None
Insulation on Fire Damper	60 SF	None
Exhaust Backdraft Damper Insulation	60 each	None
Transite Floor Duct	1,200 LF	Material is inaccessible, estimate is based on 1994 Fox OM Plan
Built-up Roof and Flashing	9,800 SF	None
Light Covers	56 each	None
CDB Building # B4205- #B4207 – Residential Units 205-207		
Material	Quantity	Notes
1' X 1' Floor Tile and Mastic	7,740 SF	None
Fire Door - Wood	6 each	None
Fire Door - Metal	3 each	None
Insulation on Fire Damper	45 SF	None
Exhaust Backdraft Damper Insulation	45 each	None
Transite Floor Duct	900 LF	Material is inaccessible, estimate is based on 1994 Fox OM Plan
Built-up Roof and Flashing	7,350 SF	None
Light Covers	39 each	None

CDB Building # B4208- #B4210 – Residential Units 208-210			
Material	Quantity		Notes
1' X 1' Floor Tile and Mastic	7,740 SF		None
Fire Door - Wood	3 each		None
Fire Door - Metal	3 each		None
Insulation on Fire Damper	45 SF		None
Exhaust Backdraft Damper Insulation	45 each		None
Transite Floor Duct	900 LF		Material is inaccessible, estimate is based on 1994 Fox OM Plan
Built-up Roof and Flashing	7,350 SF		None
Light Covers	45 each		None
CDB Building # B4300 – Neighborhood House 300			
Material	Quantity		Notes
1' X 1' Floor Tile and Mastic	2,150 SF		None
Insulation on Fire Damper	15 SF		None
Exhaust Backdraft Damper Insulation	15 each		None
Transite Floor Duct	300 LF		Material is inaccessible, estimate is based on 1994 Fox OM Plan
CDB Building # B4301- #B4304 – Residential Units 301-304			
Material	Quantity		Notes
1' X 1' Floor Tile and Mastic	10,160 SF		None
Fire Door - Metal	4 each		Only metal fire doors were present; no wood fire doors were identified
Insulation on Fire Damper	60 SF		None
Exhaust Backdraft Damper Insulation	60 each		None
Transite Floor Duct	1,200 LF		Material is inaccessible, estimate is based on 1994 Fox OM Plan
Light Covers	49 each		None
CDB Building # B4305- #B4307 – Residential Units 305-307			
Material	Quantity		Notes
1' X 1' Floor Tile and Mastic	7,740 SF		None
Fire Door - Metal	3 each		Only metal fire doors were present; no wood fire doors were identified
Insulation on Fire Damper	45 SF		None
Exhaust Backdraft Damper Insulation	45 each		None
Light Covers	39 each		None
CDB Building # B4308- #B4310 – Residential Units 308-310			
Material	Quantity		Notes
1' X 1' Floor Tile and Mastic	7,740 SF		None
Fire Door - Metal	3 each		Only metal fire doors were present; no wood fire doors were identified
Insulation on Fire Damper	45 SF		None
Exhaust Backdraft Damper Insulation	45 each		None
Transite Floor Duct	900 LF		Material is inaccessible, estimate is based on 1994 Fox OM Plan
Light Covers	39 each		None
CDB Building # B4400 – Neighborhood House 400			
Material	Quantity		Notes
1' X 1' Floor Tile and Mastic	2,200 SF		None
Insulation on Fire Damper	15 SF		None
Exhaust Backdraft Damper Insulation	15 each		None
Transite Floor Duct	300 LF		Material is inaccessible, estimate is based on 1994 Fox OM Plan
CDB Building # B4401- #B4404 – Residential Units 401-404			
Material	Quantity		Notes
1' X 1' Floor Tile and Mastic	8,700 SF		None
Fire Door - Wood	8 each		None
Fire Door - Metal	4 each		None
Insulation on Fire Damper	60 SF		None
Exhaust Backdraft Damper Insulation	60 each		None
Transite Floor Duct	1,200 LF		Material is inaccessible, estimate is based on 1994 Fox OM Plan
Built-up Roof and Flashing	9,800 SF		None
Light Covers	60 each		None
CDB Building # B4405- #B4407 – Residential Units 405-407			
Material	Quantity		Notes
1' X 1' Floor Tile and Mastic	7,740 SF		None
Fire Door - Wood	12 each		None
Fire Door - Metal	4 each		None
Insulation on Fire Damper	45 SF		None
Exhaust Backdraft Damper Insulation	45 each		None
Transite Floor Duct	900 LF		Material is inaccessible, estimate is based on 1994 Fox OM Plan
Built-up Roof and Flashing	7,350 SF		None
Light Covers	39 each		None
CDB Building # B4408- #B44010 – Residential Units 408-410			
Material	Quantity		Notes
1' X 1' Floor Tile and Mastic	7,740 SF		None
Fire Door - Wood	12 each		None
Fire Door - Metal	3 each		None
Insulation on Fire Damper	45 SF		None
Exhaust Backdraft Damper Insulation	45 each		None
Built-up Roof and Flashing	7,350 SF		None

CDB Building # B4500 – Neighborhood House 500			
Material	Quantity		Notes
1' X 1' Floor Tile and Mastic	2,285 SF		None
Insulation on Fire Damper	15 SF		None
Exhaust Backdraft Damper Insulation	15 each		None
Transite Floor Duct	300 LF		Material is inaccessible, estimate is based on 1994 Fox OM Plan
CDB Building # B4501- #B4504 – Residential Units 501-504			
Material	Quantity		Notes
1' X 1' Floor Tile and Mastic	9,880 SF		Floor tile has been removed; only mastic remains
Fire Door - Wood	4 each		None
Fire Door - Metal	8 each		None
Insulation on Fire Damper	60 SF		None
Exhaust Backdraft Damper Insulation	60 each		None
Transite Floor Duct	1,200 LF		Material is inaccessible, estimate is based on 1994 Fox OM Plan
Built-up Roofing	9,800 SF		None
Light Covers	60 each		None
CDB Building # B4505- #B4507 – Residential Units 505-507			
Material	Quantity		Notes
1' X 1' Floor Tile and Mastic	26 SF - Floor Tile 7,410 SF - Mastic		Most of the floor tile has been abated, but the mastic was not
Fire Door - Metal	3 each		Only metal fire doors were present; no wood fire doors were identified
Insulation on Fire Damper	45 SF		None
Exhaust Backdraft Damper Insulation	45 each		None
Transite Floor Duct	900 LF		Material is inaccessible, estimate is based on 1994 Fox OM Plan
Light Covers	45 each		None
CDB Building # B4508- #B4510 – Residential Units 508-510			
Material	Quantity		Notes
1' X 1' Floor Tile and Mastic	7,410 SF		None
Fire Door - Metal	3 each		None
Insulation on Fire Damper	45 SF		None
Exhaust Backdraft Damper Insulation	45 each		None
Transite Floor Duct	900 LF		Material is inaccessible, estimate is based on 1994 Fox OM Plan
Built-up Roofing	7,350 SF		None
Light Covers	45 each		None
CDB Building # B4002 – Personnel Building #2			
Material	Quantity		Notes
1' X 1' Floor Tile and Mastic	4,240 SF		None
Fire Damper Insulation	20 each		None
Exhaust Backdraft Damper Insulation	50 each		None
Under Floor Duct Pipe and Transite	350 LF		Material is inaccessible, estimate is based on 1994 Fox OM Plan
Carpet Adhesive	988 SF		None
Electrical Wiring	NQ		Not quantified
Electrical Panel Components	NQ		Not quantified
Built-up Roof	2,900 SF		None
CDB Building # B4003 – Administration Building #3			
Material	Quantity		Notes
1' X 1' Floor Tile and Mastic	4,655 SF		None
Fire Damper Insulation	20 each		None
Exhaust Backdraft Damper Insulation	20 each		None
Under Floor Duct Pipe and Transite	400 LF		Material is inaccessible, estimate is based on 1994 Fox OM Plan
Mastic under Carpeting	2,445 SF		None
Electrical Wiring	NQ		Not quantified
Electrical Panel Components	NQ		Not quantified
Built-up Roof	5,200 SF		None
CDB Building # BB001 – Pump House #1			
Material	Quantity		Notes
TSI*	4 LF		None
Electrical Wiring	NQ		Not quantified
Electrical Panel Components	NQ		Not quantified
Built-up Roof and Flashing	685 SF		None
CDB Building # BB002 – Pump House #2			
Material	Quantity		Notes
Electrical Wiring	NQ		Not quantified
Electrical Panel Components	NQ		Not quantified
Built-up Roof and Flashing	360 SF		None
CDB Building # BB003 – Pump House #3			
Material	Quantity		Notes
Electrical Wiring	NQ		Not quantified
Electrical Panel Components	NQ		Not quantified
Built-up Roof and Flashing	360 SF		None
Lead-Based Paint	120 SF**		Door

CDB Building # BB019 – Willow Hall		
Material	Quantity	Notes
TSI*	11,600 LF	None
Sprayed-on Speckled Plaster Ceiling	31,090 SF	Significant Damage Contaminating Large Portions of the Building
Insulation on Ventilation Duct	10,000 SF	None
Flue Insulation Mag Block	300 SF	None
ACM Firehose	4 each	None
Exterior Transite Panels	13,900 SF	None
Electrical Wiring	NQ	Not quantified
Electrical Panel Components	NQ	Not quantified
Stockpiled Insulation Mag Block	NA	Could not identify/verify - inaccessible crawl space
CDB Building # B4031 – Pine Hall		
Material	Quantity	Notes
TSI*	6,500LF	None
Flash Tank Insulation	150 SF	None
Insulation on Ventilation Duct	700 SF	None
Black Mastic with Flooring	38,054 SF	Multiple flooring has been removed and replaced, but asbestos containing black mastic is still present
Electrical Wiring	NQ	Not quantified
Electrical Panel Components	NQ	Not quantified
Fire Door	22 each	None
CDB Building # BB006 – Water Treatment Plant #6		
Material	Quantity	Notes
Metal Fire Doors	1 each	Could not verify but likely door to electrical room
Built-up Roof	4,600 SF	None
Insulation Material on Exhaust Backdraft Damper	10 SF	None
Mortar and Brick Base	200 SF	Associated with Boiler in Basement
Boiler Gasket Insulation Rope	15 LF	None
Cementitious Material	NA	Could not identify/verify
TSI*	600 LF	None
Exterior Window Caulk	400 LF	None
Interior Window Glaze	1,900 LF	None
Interior Wall Seam Caulk	400 LF	None
Electrical Wiring	NQ	Not quantified
Electrical Panel Components	NQ	Not quantified
Boiler Flue Insulation	30 SF (visible)	None
Lead-Based Paint	600 SF**	Exterior white walls
CDB Building # BB008 – Power Plant #8		
Material	Quantity	Notes
TSI*	4,200 LF	Throughout building - various pipe runs and joints (all non fiberglass)
Boiler Insulation	9,200 SF	Boiler #1 and #2
Flue Insulation	590 SF	None
Flue Insulation #2	1,250 SF	None
Cementitious Fitting on Electrical Conduit	50 LF	None
Cementitious Insulation on Holding Tank	170 SF	None
Cementitious Insulation on Hot Water Tank #1 and #2	960 SF	None
Cementitious Insulation on Conditioning Tank #1 and #1	480 SF	One tank is no longer wrapped and the other is wrapped in dark blue insulation which appears to be fiberglass
Cementitious Insulation on Oil Heating Converter	100 SF	None
Feed Water Tank (TSI)	450 SF	None
Exhaust Backdraft Damper Insulation	15 each	None
Electrical Wiring	NQ	Not quantified
Electrical Panel Components	NQ	Not quantified
ACM Firehose	2 each	None
Boiler Gaskets	15 each	None
Asbestos Stockpile	10 SF	None
Lead-Based Paint	1,500 SF**	Gray on boilers and white exterior walls
CDB Building # BB020 – Oak Hall #20		
Material	Quantity	Notes
TSI*	6,000 LF	None
Duct Insulation	195 SF	None
Booster Pump Insulation	500 SF	None
12" X 12" Vinyl Floor Tile and Mastic (non-white)	1,980 SF	None
Fire Door - Wood	2 each	None
Fire Door - Metal	12 each	None
Vibration Damper Insulation	8 SF	None
Fire Damper Insulation	3 SF	None
Exhaust Backdraft Damper	32 each	None
ACM Firehose	4 each	None
Electrical Wiring	NQ	Not quantified
Electrical Panel Components	NQ	Not quantified
Black Sealant on Interior Glass Windows	1,000 LF	None
Elevator Doors/Equipment	1 Elevator Car	None
Transite Laboratory Counter Tops and Hoods	700 SF	None
Transite Pipe	16 LF	None

CDB Building # BB021 – Hickory Hall #21		
Material	Quantity	Notes
TSI*	1,975 LF	None
Boiler Tank Insulation	50 SF	None
Vinyl Floor Sheeting and Mastic	4,235 SF	None
9" X 9" Floor Tile and Mastic	8,300 SF	None
1' X 1' Floor Tile and Mastic	11,200 SF	None
Built-up Roof and flashing	10,700 SF	None
ACM Firehose	4 each	None
Metal Fire Doors	14 each	None
Cementitious Backdraft damper insulation	10 each	None
Fire Damper Insulation	5 each	None
Electrical Wiring	NQ	Not quantified
Electrical Panel Components	NQ	Not quantified
Carpet Mastic	17,800 SF	None
Mastic Under Rubberized Stair Tread	500 SF	None
CDB Building # BB022 – Sycamore Hall #22		
Material	Quantity	Notes
TSI*	1,200 LF	None
Booster Pump Insulation	12 SF	None
9" X 9" Floor Tile and Mastic	3,900 SF	None
1' X 2' Floor Tile and Mastic	100 SF	None
1' X 1' Floor Tile and Mastic	9,566 SF	None
Fire Door - Wood	9 each	None
Fire Door - Metal	11 each	None
Electrical Wiring	NQ	Not quantified
Electrical Panel Components	NQ	Not quantified
ACM Firehose	4 each	None
Exterior Window Caulking	2,472 LF	None
Exterior Window Glaze	4,000 LF	None
Interior Window Glaze	4,000 LF	None
Mastic Under Vinyl Floor	216 SF	None
CDB Building # BB025 – Garage Building #25		
Material	Quantity	Notes
TSI*	1,950 LF	None
9" X 9" Floor Tile and Mastic	120 SF	None
Fire Damper Insulation	150 each	None
Metal Fire Doors	1 each	None
Insulation on Exhaust Backdraft Dampers	2 each	None
Electrical Wiring	NQ	Not quantified
Electrical Panel Components	NQ	Not quantified
Window Caulking	300 LF	None
Roofing Material Felt and Flashing	16,950 SF	None
Lead-Based Paint	50 SF**	Blue garage door and green door frame
CDB Building # BB026 – Maple Hall #26		
Material	Quantity	Notes
TSI*	1,718 LF	Throughout on various pipe sizes (elbows and runs). This quantity is listed on the previous survey; very little was accessible and most appears to be fiberglass except for the joints.
Cementitious Insulation on Ducts	500 SF	None
Cementitious Material on Booster Pump	128 SF	None
Rope Insulation around Access Panel	3 LF	None
9" X 9" Floor Tile and Mastic	59,393 SF	None
1' X 1' Floor Tile and Mastic	4,474 SF	None
Fire Door - Wood	1	None
Fire Door - Metal	60	None
Vibration Damper Insulation	8 SF	None
Fire Damper Insulation	2 SF	None
Exhaust Backdraft Damper	18 each	None
Carpet and Mastic Door	NA	Could not identify/verify
Transite Duct under Door	NA	Could not identify/verify
Electrical Wiring	NQ	Not quantified
Electrical Panel Components	NQ	Not quantified
Elevator Doors/Equipment	1 Elevator Car	None
Transite Louvers	NA	Could not identify/verify

CDB Building # BB027 – Administration Building #27		
Material	Quantity	Notes
TSI*	400 LF	None
Tank Insulation	260 SF	None
9" X 9" Floor Tile and Mastic	15,158 SF	Within some carpeted areas, the 9" X 9" floor tile has been removed but the mastic remains.
1' X 1' Floor Tile and Mastic	750 SF	None
Fire Door - Metal	7	None
Transite Siding around Cooling Tower	300 SF	None
Insulation on Fire Dampers	50 each	None
Electrical Wiring	NQ	Not quantified
Electrical Panel Components	NQ	Not quantified
Liner Inside Cooling Tanks	NA	Could not identify/verify
CDB Building # BB028 – Spruce Hall #28		
Material	Quantity	Notes
Insulation behind False Exterior Windows (Center Windows)	2,600 SF	Fiberglass with a Chrysotile Membrane
Black Sealant on Interior Glass Windows	1,500 LF	None
Black Door Frame Caulk	1,000 SF	None
Sprayed-on Plaster Ceiling	1,000 SF	None
9" X 9" Vinyl Floor Tile and Mastic	2,700 SF	None
Vinyl Sheet Good with Mastic	2,971 SF	None
Fire Doors - Metal	33	None
Fire Damper Insulation	124 SF	None
Exhaust Backdraft Damper	352 each	None
Vibration Damper Insulation	96 SF	None
Cementitious Insulation on Conversion Tank	100 SF	None
Electrical Wiring	NQ	Not quantified
Electrical Panel Components	NQ	Not quantified
Elevator Doors/Equipment	1 Elevator Car	None
TSI*	1,400 LF	None
CDB Building # BB029 – Mimosa Hall #29		
Material	Quantity	Notes
TSI*	3,000 LF	Throughout various pipe sizes. Main level above the ceiling hot and cold water lines are wrapped, but due to limited access, could not verify how much of this material is fiberglass and how much is ACM
9" X 9" Floor Tile and Mastic	1,590 SF	None
1' X 1' Floor Tile and Mastic	2,704 SF	None
Fire Door - Wood	7	None
Fire Door - Metal	7	None
Mastic under Wood Floor	4,500 SF - Gym 792 SF - Auditorium Stage	None
Carpet Mastic over Vinyl Tile	2,679 SF	None
Fire Damper Insulation	32 SF	None
Exhaust Backdraft Damper Insulation	96 each	None
Canvas Vibration Damper	16 SF	None
Electrical Wiring	NQ	Not quantified
Electrical Panel Components	NQ	Not quantified
Transite on Cooling Tower	350 SF	None
CDB Building # BB030 – Gen Mech Store/Shop #30		
Material	Quantity	Notes
TSI*	1,200 LF	None
9" X 9" Floor Tile and Mastic	2,352 SF	None
1' X 1' Floor Tile and Mastic	50 SF	None
Cooler Door Insulation	150 SF	None
Exhaust Backdraft Damper Insulation	15 each	None
Insulation inside fire damper access panel	5 SF	None
Mastic Sealant around Conduit	10 SF	None
Metal Fire Doors	2	None
Exterior Window Glaze	1,500 LF	None
Electrical Wiring	NQ	Not quantified
Electrical Panel Components	NQ	Not quantified
Asbestos Stockpile	NA	Could not identify/verify
Lead-Based Paint	NA**	All material was in good condition

CDB Building # BB032 – Cedar Hall #32		
Material	Quantity	Notes
TSI*	888 LF	Mechanical room in basement is inaccessible due to flooding; therefore, the quantity estimate is based on 1994 Fox OM Plan
1' X 1' Floor Tile and Mastic	352 SF	None
9" X 9" Floor Tile and Mastic	2,560 SF	None
Sheet Goods with Mastic	18,738 SF	None
Fire Doors - Metal	8	None
Built-up Roofing	4,900 SF	None
Mastic under Wood Floor	3,750 SF	None
Fire Damper Insulation	4 SF	None
Electrical Wiring	NQ	Not quantified
Electrical Panel Components	NQ	Not quantified
Exhaust Backdraft Damper Insulation	8 each	None
Lead-Based Paint	25 SF	Orange door/door frame
CDB Building # B4114 – Cottage #1 Building #24		
Material	Quantity	Notes
1' X 1' Floor Tile and Mastic	2,600 SF	None
Metal Fire Doors	6 each	None
Fire Damper Insulation	30 each	None
Exhaust Backdraft Damper Insulation	10 each	None
CDB Building # B4214 – Cottage #2 Building #44		
Material	Quantity	Notes
1' X 1' Floor Tile and Mastic	2,600 SF	None
Metal Fire Doors	6 each	None
Fire Damper Insulation	30 each	None
Exhaust Backdraft Damper Insulation	10 each	None
CDB Building # B4314 – Cottage #3 Building #45		
Material	Quantity	Notes
1' X 1' Floor Tile and Mastic	2,600 SF	None
Metal Fire Doors	6 each	None
Fire Damper Insulation	30 each	None
Exhaust Backdraft Damper Insulation	10 each	None
Lead-Based Paint	NA**	All material was in good condition
CDB Building # B4414 – Cottage #4 Building #42		
Material	Quantity	Notes
1' X 1' Floor Tile and Mastic	2,600 SF	None
Metal Fire Doors	6 each	None
Fire Damper Insulation	30 each	None
Exhaust Backdraft Damper Insulation	10 each	None
CDB Building # B4514 – Cottage #5 Building #43		
Material	Quantity	Notes
1' X 1' Floor Tile and Mastic	2,600 SF	None
Metal Fire Doors	6 each	None
Fire Damper Insulation	30 each	None
Exhaust Backdraft Damper Insulation	10 each	None
CDB Building # B4614 – Cottage #6 Building #40		
Material	Quantity	Notes
1' X 1' Floor Tile and Mastic	2,600 SF	None
Metal Fire Doors	6 each	None
Fire Damper Insulation	30 each	None
Exhaust Backdraft Damper Insulation	10 each	None
CDB Building # B4714 – Cottage #7 Building #41		
Material	Quantity	Notes
1' X 1' Floor Tile and Mastic	2,600 SF	None
Metal Fire Doors	6 each	None
Fire Damper Insulation	30 each	None
Exhaust Backdraft Damper Insulation	10 each	None
Building - Tunnel		
Material	Quantity	Notes
Electrical Wiring	NQ	Not quantified
Electrical Panel Components	NQ	Not quantified
TSI*	18,400 LF	Various pipe sizes throughout. Tunnel running from Sycamore Hall toward the west appears to be fiberglass with only TSI joints; flooding prevented full access to this section of the tunnel. Other sections of the tunnel were flooded, preventing access.

Notes:

LF - Linear Feet

OM Plan - Operations and Maintenance plan developed by Fox and Fox Architects in 1994

SF - Square Feet

NQ - Not Quantified

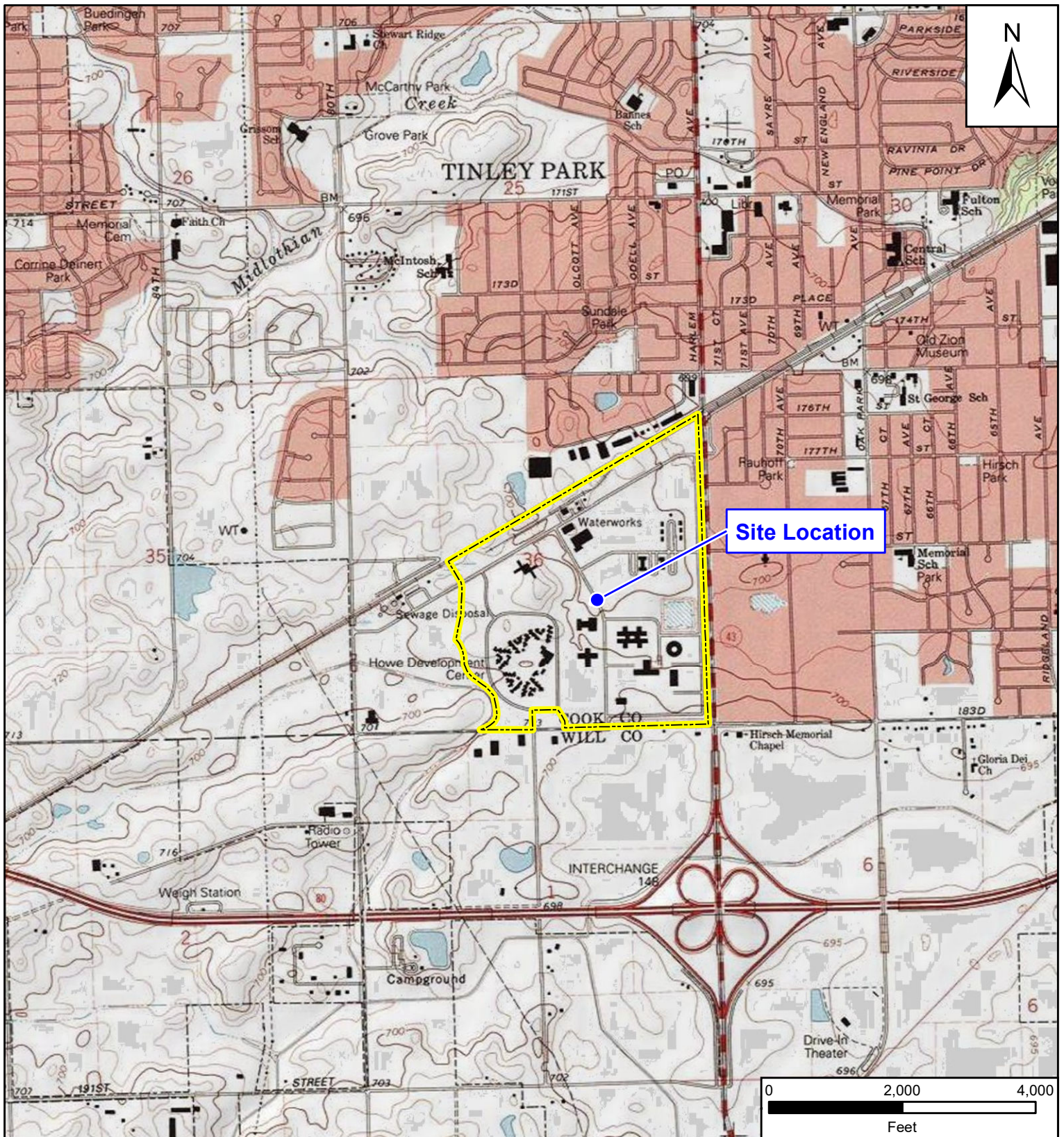
TSI - Thermal systems insulation (pipe runs and joints)

* - OM Plans reference a multitude of TSI (as shown in the body of this report). In order to simplify the quantification, all types and pipe diameters of TSI

(pipe runs and joints) were added together for a total LF per building. This, however, does not include TSI on tanks and ventilation ducting because these quantities are reported in SF. For purposes of calculating the linear footage of a joint, 1 joint equals 1 LF.

** - Only damaged areas of LBP were quantified.


APPENDIX C: FIGURES



REFERENCE MAP



Legend

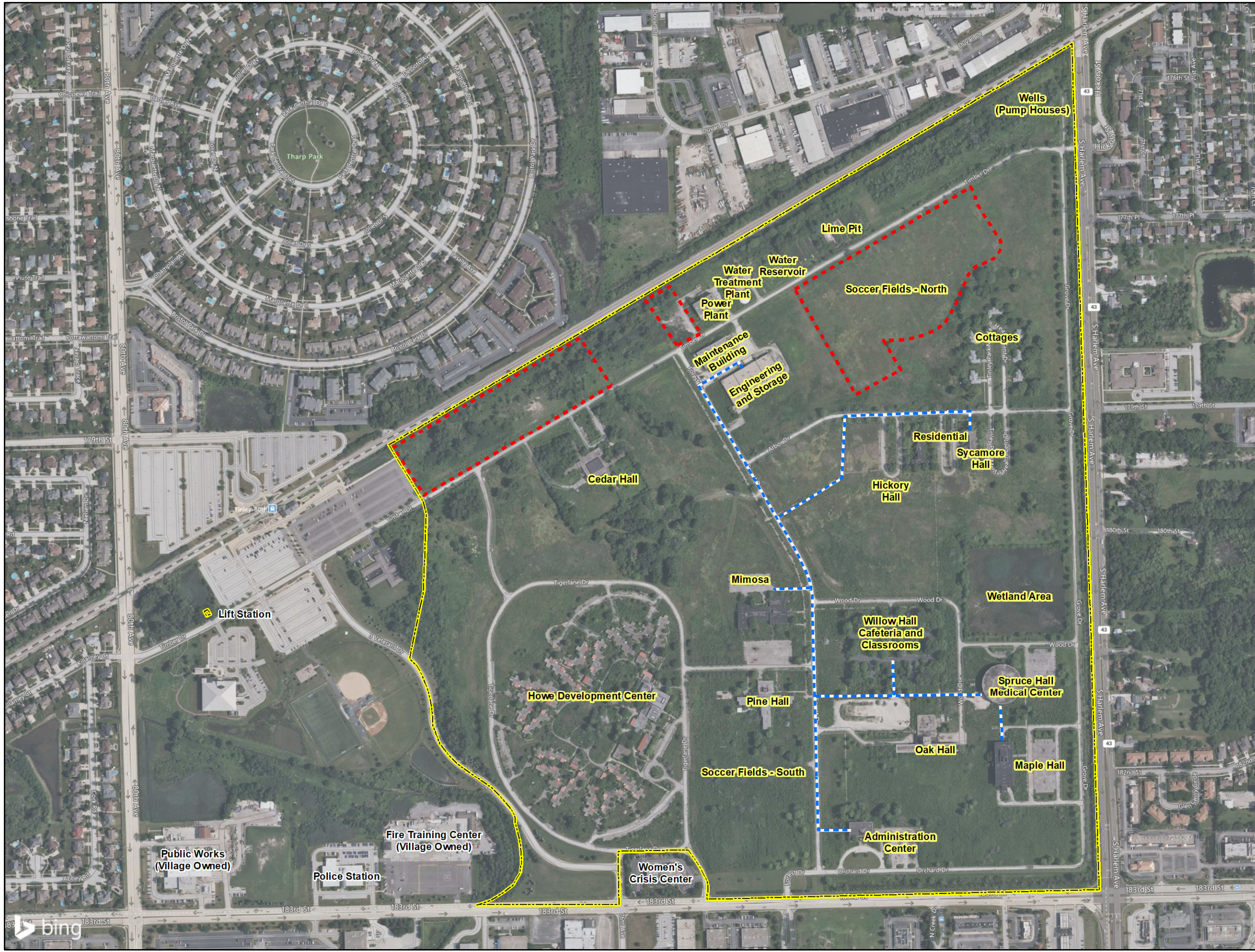
 Approximate Site Boundary

Former Tinley Park Health Center
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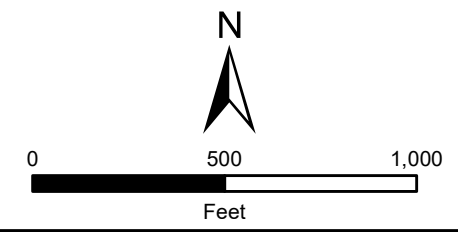
Figure 1
Site Location Map



Source: USGS 7.5-Minute Topographic Quadrangle Map
Tinley Park, IL 1994



- Legend**
- - - Approximate Tunnel Location
 - - - Approximate Outline of Suspected Fill Area
 - Approximate Site Boundary
 - Text** Building structure or significant site feature



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Figure 2
Site Layout Map





Social Hab-Pt Building CDB# B4001

1 Floor, No Basement

32,000 SF

Material	Quantity	Notes
1' X 1' Floor Tile and Mastic	14,023 SF	None
Fire Doors - Wood	7 each	None
Fire Damper Insulation	20 SF	None
Exhaust Backdraft Damper Insulation	50 each	None
Mastic under Wood Floor	7,960 SF	None
Ductwork Insulation on Roof	300 SF	Black tar covering parts of the fiberglass insulation on ducts
Under floor duct pipe and transite	690 LF	Material is inaccessible, estimate is based on 1994 Fox OM Plan
Transite Light Covers	60 each	None



Neighborhood House 100 CDB# 4100

1 Story, No Basement

2,400 SF

Material	Quantity	Notes
1' X 1' Floor Tile and Mastic	2,220 SF	None
Insulation on Fire Damper	15 each	None
Exhaust Backdraft Damper Insulation	15 each	None
Transite Floor Duct	300 LF	Material is inaccessible, estimate is based on 1994 Fox OM Plan

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Figure 3
Building Details





Residential Units 101-104 CDB# 4101-4104

1 Story, No Basement

2,800 SF Each Unit

Materials Per Unit	Quantity	Notes
1' X 1' Floor Tile and Mastic	32 SF	Abatement has removed most of this material
Fire Door - Metal	8 each	Only metal fire doors were present; no wood fire doors were identified
Insulation on Fire Damper	60 SF	None
Exhaust Backdraft Damper Insulation	60 each	None
Transite Floor Duct	1,200 LF	Material is inaccessible, estimate is based on 1994 Fox OM Plan
Light Covers	56 each	None



Residential Units 105-107 CDB# 4105-4107

1 Story, No Basement

2,800 SF Each Unit

Materials Per Unit	Quantity	Notes
1' X 1' Floor Tile and Mastic	32 SF	Abatement has removed most of this material
Fire Door - Metal	8 each	Only metal fire doors were present; no wood fire doors were identified
Insulation on Fire Damper	60 SF	None
Exhaust Backdraft Damper Insulation	60 each	None
Transite Floor Duct	1,200 LF	Material is inaccessible, estimate is based on 1994 Fox OM Plan
Light Covers	56 each	None

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Figure 4
Building Details





Neighborhood House 200 CDB# 4200

1 Story, No Basement

2,400 SF

Material	Quantity	Notes
1' X 1' Floor Tile and Mastic	2,240 SF	None
Insulation on Fire Damper	15 SF	None
Exhaust Backdraft Damper Insulation	15 each	None
Transite Floor Duct	300 LF	Material is inaccessible, estimate is based on 1994 Fox OM Plan
Window Caulking	225 LF	None



Residential Units 108-110 CDB# 4108-4110

1 Story, No Basement

2,800 SF Each Unit

Materials Per Unit	Quantity	Notes
1' X 1' Floor Tile and Mastic	24 SF	Abatement has removed most of this material
Fire Door - Wood	3 each	None
Fire Door - Metal	3 each	None
Insulation on Fire Damper	45 SF	None
Exhaust Backdraft Damper Insulation	45 each	None
Transite Floor Duct	900 LF	Material is inaccessible, estimate is based on 1994 Fox OM Plan
Light Covers	42 each	None

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Figure 5
Building Details





Residential Units 205-207 CDB# 4205-4207

1 Story, No Basement

2,800 SF Each Unit

Materials Per Unit	Quantity	Notes
1' X 1' Floor Tile and Mastic	7,740 SF	None
Fire Door - Wood	6 each	None
Fire Door - Metal	3 each	None
Insulation on Fire Damper	45 SF	None
Exhaust Backdraft Damper Insulation	45 each	None
Transite Floor Duct	900 LF	Material is inaccessible, estimate is based on 1994 Fox OM Plan
Built-up Roof and Flashing	7,350 SF	None
Light Covers	39 each	None



Residential Units 201-204 CDB# 4201-4204

1 Story, No Basement

2,800 SF Each Unit

Materials Per Unit	Quantity	Notes
1' X 1' Floor Tile and Mastic	10,160 SF	None
Fire Door - Wood	4 each	None
Fire Door - Metal	4 each	None
Insulation on Fire Damper	60 SF	None
Exhaust Backdraft Damper Insulation	60 each	None
Transite Floor Duct	1,200 LF	Material is inaccessible, estimate is based on 1994 Fox OM Plan
Built-up Roof and Flashing	9,800 SF	None
Light Covers	56 each	None

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Figure 6
Building Details





Residential Units 208-210 CDB# 4208-4210

1 Story, No Basement

2,800 SF Each Unit

Materials Per Unit	Quantity	Notes
1' X 1' Floor Tile and Mastic	7,740 SF	None
Fire Door - Wood	3 each	None
Fire Door - Metal	3 each	None
Insulation on Fire Damper	45 SF	None
Exhaust Backdraft Damper Insulation	45 each	None
Transite Floor Duct	900 LF	Material is inaccessible, estimate is based on 1994 Fox OM Plan
Built-up Roof and Flashing	7,350 SF	None
Light Covers	45 each	None



Neighborhood House 300 CDB# 4300

1 Story, No Basement

2,400 SF

Material	Quantity	Notes
1' X 1' Floor Tile and Mastic	2,150 SF	None
Insulation on Fire Damper	15 SF	None
Exhaust Backdraft Damper Insulation	15 each	None
Transite Floor Duct	300 LF	Material is inaccessible, estimate is based on 1994 Fox OM Plan

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Figure 7
Building Details





Residential Units 301-304 CDB# 4301-4304

1 Story, No Basement

2,800 SF Each Unit

Materials Per Unit	Quantity	Notes
1' X 1' Floor Tile and Mastic	10,160 SF	None
Fire Door - Metal	4 each	Only metal fire doors were present; no wood fire doors were identified
Insulation on Fire Damper	60 SF	None
Exhaust Backdraft Damper Insulation	60 each	None
Transite Floor Duct	1,200 LF	Material is inaccessible, estimate is based on 1994 Fox OM Plan
Light Covers	49 each	None



Residential Units 305-307 CDB# 4305-4307

1 Story, No Basement

2,800 SF Each Unit

Materials Per Unit	Quantity	Notes
1' X 1' Floor Tile and Mastic	7,740 SF	None
Fire Door - Metal	3 each	Only metal fire doors were present; no wood fire doors were identified
Insulation on Fire Damper	45 SF	None
Exhaust Backdraft Damper Insulation	45 each	None
Light Covers	39 each	None

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Figure 8
Building Details





Residential Units 308-310 CDB# 4308-4310

1 Story, No Basement

2,800 SF Each Unit

Materials Per Unit	Quantity	Notes
1' X 1' Floor Tile and Mastic	7,740 SF	None
Fire Door - Metal	3 each	Only metal fire doors were present; no wood fire doors were identified
Insulation on Fire Damper	45 SF	None
Exhaust Backdraft Damper Insulation	45 each	None
Transite Floor Duct	900 LF	Material is inaccessible, estimate is based on 1994 Fox OM Plan
Light Covers	39 each	None



Neighborhood House 400 CDB# 4400

1 Story, No Basement

2,400 SF

Material	Quantity	Notes
1' X 1' Floor Tile and Mastic	2,150 SF	None
Insulation on Fire Damper	15 SF	None
Exhaust Backdraft Damper Insulation	15 each	None
Transite Floor Duct	300 LF	Material is inaccessible, estimate is based on 1994 Fox OM Plan

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Figure 9
Building Details





Residential Units 401-404 CDB# 4401-4404

1 Story, No Basement

2,800 SF Each Unit

Materials Per Unit	Quantity	Notes
1' X 1' Floor Tile and Mastic	8,700 SF	None
Fire Door - Wood	8 each	None
Fire Door - Metal	4 each	None
Insulation on Fire Damper	60 SF	None
Exhaust Backdraft Damper Insulation	60 each	None
Transite Floor Duct	1,200 LF	Material is inaccessible, estimate is based on 1994 Fox OM Plan
Built-up Roof and Flashing	9,800 SF	None
Light Covers	60 each	None



Residential Units 405-407 CDB# 4405-4407

1 Story, No Basement

2,800 SF Each Unit

Materials Per Unit	Quantity	Notes
Fire Door - Wood	12 each	None
Fire Door - Metal	4 each	None
Insulation on Fire Damper	45 SF	None
Exhaust Backdraft Damper Insulation	45 each	None
Transite Floor Duct	900 LF	Material is inaccessible, estimate is based on 1994 Fox OM Plan
Built-up Roof and Flashing	7,350 SF	None
Light Covers	39 each	None

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Figure 10
Building Details





Neighborhood House 500 CDB# 4500

1 Story, No Basement

2,400 SF

Material	Quantity	Notes
1' X 1' Floor Tile and Mastic	2,285 SF	None
Insulation on Fire Damper	15 SF	None
Exhaust Backdraft Damper Insulation	15 each	None
Transite Floor Duct	300 LF	Material is inaccessible, estimate is based on 1994 Fox OM Plan



Residential Units 408-410 CDB# 4408-4410

1 Story, No Basement

2,800 SF Each Unit

Materials Per Unit	Quantity	Notes
1' X 1' Floor Tile and Mastic	7,740 SF	None
Fire Door - Wood	12 each	None
Fire Door - Metal	3 each	None
Insulation on Fire Damper	45 SF	None
Exhaust Backdraft Damper Insulation	45 each	None
Built-up Roof and Flashing	7,350 SF	None

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Figure 11
Building Details





Residential Units 501-504 CDB# 4501-4504

1 Story, No Basement

2,800 SF Each Unit

Materials Per Unit	Quantity	Notes
1' X 1' Floor Tile and Mastic	9,880 SF	Floor tile has been removed; only mastic remains
Fire Door - Wood	4 each	None
Fire Door - Metal	8 each	None
Insulation on Fire Damper	60 SF	None
Exhaust Backdraft Damper Insulation	60 each	None
Transite Floor Duct	1,200 LF	Material is inaccessible, estimate is based on 1994 Fox OM Plan
Built-up Roofing	9,800 SF	None
Light Covers	60 each	None



Residential Units 505-507 CDB# 4505-4507

1 Story, No Basement

2,800 SF Each Unit

Materials Per Unit	Quantity	Notes
1' X 1' Floor Tile and Mastic	26 SF - Floor Tile 7,410 SF - Mastic	Most of the floor tile has been abated, but the mastic was not
Fire Door - Metal	3 each	Only metal fire doors were present; no wood fire doors were identified
Insulation on Fire Damper	45 SF	None
Exhaust Backdraft Damper Insulation	45 each	None
Transite Floor Duct	900 LF	Material is inaccessible, estimate is based on 1994 Fox OM Plan
Light Covers	45 each	None

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Figure 12
Building Details





Residential Units 508-510 CDB# 4508-4510

1 Story, No Basement

2,800 SF Each Unit

Materials Per Unit	Quantity	Notes
1' X 1' Floor Tile and Mastic	7,410 SF	None
Fire Door - Metal	3 each	None
Insulation on Fire Damper	45 SF	None
Exhaust Backdraft Damper Insulation	45 each	None
Transite Floor Duct	900 LF	Material is inaccessible, estimate is based on 1994 Fox OM Plan
Built-up Roofing	7,350 SF	None
Light Covers	45 each	None



Personnel Building #2 CDB# B4002

1 Story, No Basement

4,400 SF

Material	Quantity	Notes
1' X 1' Floor Tile and Mastic	4,240 SF	None
Fire Damper Insulation	20 each	None
Exhaust Backdraft Damper Insulation	50 each	None
Under Floor Duct Pipe and Transite	350 LF	Material is inaccessible, estimate is based on 1994 Fox OM Plan
Carpet Adhesive	988 SF	None
Electrical Wiring	NQ	Not quantified
Electrical Panel Components	NQ	Not quantified
Built-up Roof	2,900 SF	None

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Figure 13
Building Details





Pump House #1 CDB# BB001

1 Story, No Basement, Brick Structure

685 SF

Material	Quantity	Notes
TSI*	4 LF	None
Electrical Wiring	NQ	Not quantified
Electrical Panel Components	NQ	Not quantified
Built-up Roof and Flashing	685 SF	None



Administration Building #3 CDB# B4003

1 Story, No Basement

5,600 SF

Material	Quantity	Notes
1' X 1' Floor Tile and Mastic	4,655 SF	None
Fire Damper Insulation	20 each	None
Exhaust Backdraft Damper Insulation	20 each	None
Under Floor Duct Pipe and Transite	400 LF	Material is inaccessible, estimate is based on 1994 Fox OM Plan
Mastic under Carpeting	2,445 SF	None
Electrical Wiring	NQ	Not quantified
Electrical Panel Components	NQ	Not quantified
Built-up Roof	5,200 SF	None



Pump House #2 CDB# BB002

1 Story, No Basement, Brick Structure

360 SF

Material	Quantity	Notes
Electrical Wiring	NQ	Not quantified
Electrical Panel Components	NQ	Not quantified
Built-up Roof and Flashing	360 SF	None

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Figure 14
Building Details



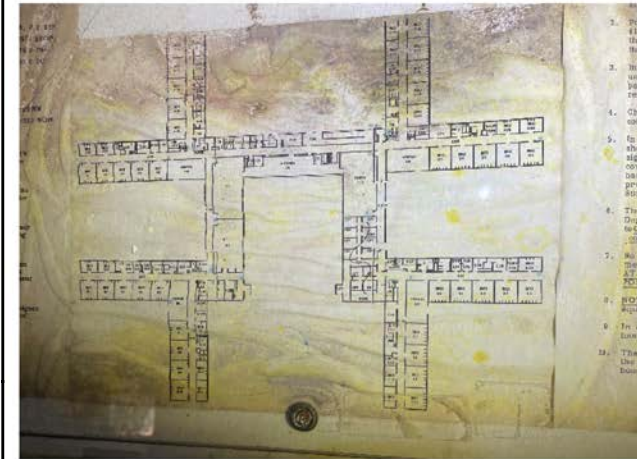


Pump House #3 CDB# BB003

1 Story, No Basement, Brick Structure

360 SF

Material	Quantity	Notes
Electrical Wiring	NQ	Not quantified
Electrical Panel Components	NQ	Not quantified
Built-up Roof and Flashing	360 SF	None
Lead-Based Paint	120 SF**	Door



Willow Hall CDB# BB019

2 Floors including 1 below grade

35,000 SF

Material	Quantity	Notes
TSI*	11,600 LF	None
Sprayed-on Speckled Plaster Ceiling	31,090 SF	Significant Damage Contaminating Large Portions of the Building
Insulation on Ventilation Duct	10,000 SF	None
Flue Insulation Mag Block	300 SF	None
ACM Firehose	4 each	None
Exterior Transite Panels	13,900 SF	None
Electrical Wiring	NQ	Not quantified
Electrical Panel Components	NQ	Not quantified
Stockpiled Insulation Mag Block	NA	Could not identify/verify - inaccessible crawl space

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Figure 15
Building Details





Pine Hall CDB# B4031

3 Floors including 1 below grade

51,630 SF

Material	Quantity	Notes
TSI*	6,500LF	None
Flash Tank Insulation	150 SF	None
Insulation on Ventilation Duct	700 SF	None
Black Mastic with Flooring	38,054 SF	Multiple flooring has been removed and replaced, but asbestos containing black mastic is still present
Electrical Wiring	NQ	Not quantified
Electrical Panel Components	NQ	Not quantified
Fire Door	22 each	None



Water Treatment Plant CDB# BB006

3 Floors including 2 below grade

9,426 SF

Material	Quantity	Notes
Metal Fire Doors	1 each	Could not verify but likely door to electrical room
Built-up Roof	4,600 SF	None
Insulation Material on Exhaust Backdraft Damper	10 SF	None
Mortar and Brick Base	200 SF	Associated with Boiler in Basement
Boiler Gasket Insulation Rope	15 LF	None
Cementitious Material	NA	Could not identify/verify
TSI*	600 LF	None
Exterior Window Caulk	400 LF	None
Interior Window Glaze	1,900 LF	None
Interior Wall Seam Caulk	400 LF	None
Electrical Wiring	NQ	Not quantified
Electrical Panel Components	NQ	Not quantified
Boiler Flue Insulation	30 SF (visible)	None
Lead-Based Paint	600 SF**	Exterior white walls

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Figure 16
Building Details





Power Plant #8 Plant CDB# BB008

2 Floors including 1 below grade

24,121 SF

Material	Quantity	Notes
TSI*	4,200 LF	Throughout building - various pipe runs and joints (all non fiberglass)
Boiler Insulation	9,200 SF	Boiler #1 and #2
Boiler Components	NQ	Demolition and removal of all Boilers
Flue Insulation	590 SF	None
Flue Insulation #2	1,250 SF	None
Cementitious Fitting on Electrical Conduit	50 LF	None
Cementitious Insulation on Holding Tank	170 SF	None
Cementitious Insulation on Hot Water Tank #1 and #2	960 SF	None
Cementitious Insulation on Conditioning Tank #1 and #1	480 SF	One tank is no longer wrapped and the other is wrapped in dark blue insulation which appears to be fiberglass
Cementitious Insulation on Oil Heating Converter	100 SF	None
Feed Water Tank (TSI)	450 SF	None
Exhaust Backdraft Damper Insulation	15 each	None
Electrical Wiring	NQ	Not quantified
Electrical Panel Components	NQ	Not quantified
ACM Firehose	2 each	None
Boiler Gaskets	15 each	None
Asbestos Stockpile	10 SF	None
Lead-Based Paint	1,500 SF**	Gray on boilers and white exterior walls



Oak Hall #20 CDB# BB020

5 Floors including 1 below grade

78,953 SF

Material	Quantity	Notes
TSI*	6,000 LF	None
Duct Insulation	195 SF	None
Booster Pump Insulation	500 SF	None
12" X 12" Vinyl Floor Tile and Mastic (non-white)	1,980 SF	None
Fire Door - Wood	2 each	None
Fire Door - Metal	12 each	None
Vibration Damper Insulation	8 SF	None
Fire Damper Insulation	3 SF	None
Exhaust Backdraft Damper	32 each	None
ACM Firehose	4 each	None
Electrical Wiring	NQ	Not quantified
Electrical Panel Components	NQ	Not quantified
Black Sealant on Interior Glass Windows	1,000 LF	None
Elevator Doors/Equipment	1 Elevator Car	None
Transite Laboratory Counter Tops and Hoods	700 SF	None
Transite Pipe	16 LF	None

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Figure 17
Building Details





Hickory Hall #21 CDB# BB021

3 Floors including 1 below grade

27,517 SF

Material	Quantity	Notes
TSI*	1,975 LF	None
Boiler Tank Insulation	50 SF	None
Vinyl Floor Sheeting and Mastic	4,235 SF	None
9" X 9" Floor Tile and Mastic	8,300 SF	None
1' X 1' Floor Tile and Mastic	11,200 SF	None
Built-up Roof and flashing	10,700 SF	None
ACM Firehose	4 each	None
Metal Fire Doors	14 each	None
Cementitious Backdraft damper insulation	10 each	None
Fire Damper Insulation	5 each	None
Electrical Wiring	NQ	Not quantified
Electrical Panel Components	NQ	Not quantified
Carpet Mastic	17,800 SF	None
Mastic Under Rubberized Stair Tread	500 SF	None



Sycamore Hall #22 CDB# BB022

3 Floors including 1 below grade

20,000 SF

Material	Quantity	Notes
TSI*	1,200 LF	None
Booster Pump Insulation	12 SF	None
9" X 9" Floor Tile and Mastic	3,900 SF	None
1' X 2' Floor Tile and Mastic	100 SF	None
1' X 1' Floor Tile and Mastic	9,566 SF	None
Fire Door - Wood	9 each	None
Fire Door - Metal	11 each	None
Electrical Wiring	NQ	Not quantified
Electrical Panel Components	NQ	Not quantified
ACM Firehose	4 each	None
Exterior Window Caulking	2,472 LF	None
Exterior Window Glaze	4,000 LF	None
Interior Window Glaze	4,000 LF	None
Mastic Under Vinyl Floor	216 SF	None

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Figure 18
Building Details





Maple Hall #26 CDB# BB026

5 Floors including 1 below grade plus Penthouse

76,016 SF

Material	Quantity	Notes
TSI*	1,718 LF	Throughout on various pipe sizes (elbows and runs). This quantity is listed on the previous survey; very little was accessible and most appears to be fiberglass except for the joints.
Cementitious Insulation on Ducts	500 SF	None
Cementitious Material on Booster Pump	128 SF	None
Rope Insulation around Access Panel	3 LF	None
9" X 9" Floor Tile and Mastic	59,393 SF	None
1' X 1' Floor Tile and Mastic	4,474 SF	None
Fire Door - Wood	1	None
Fire Door - Metal	60	None
Vibration Damper Insulation	8 SF	None
Fire Damper Insulation	2 SF	None
Exhaust Backdraft Damper	18 each	None
Carpet and Mastic Door	NA	Could not identify/verify
Transite Duct under Door	NA	Could not identify/verify
Electrical Wiring	NQ	Not quantified
Electrical Panel Components	NQ	Not quantified
Elevator Doors/Equipment	1 Elevator Car	None
Transite Louvers	NA	Could not identify/verify



Garage Building #25 CDB# BB025

2 Floors, No basement

21,668 SF

Material	Quantity	Notes
TSI*	1,950 LF	None
9" X 9" Floor Tile and Mastic	120 SF	None
Fire Damper Insulation	150 each	None
Metal Fire Doors	1 each	None
Insulation on Exhaust Backdraft Dampers	2 each	None
Electrical Wiring	NQ	Not quantified
Electrical Panel Components	NQ	Not quantified
Window Caulking	300 LF	None
Roofing Material Felt and Flashing	16,950 SF	None
Lead-Based Paint	50 SF**	Blue garage door and green door frame

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Figure 19
Building Details



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Administration Building #27 CDB# BB027

3 Floors including 1 below grade

23,757 SF

Material	Quantity	Notes
TSI*	400 LF	None
Tank Insulation	260 SF	None
9" X 9" Floor Tile and Mastic	15,158 SF	Within some carpeted areas, the 9" X 9" floor tile has been removed but the mastic remains.
1' X 1' Floor Tile and Mastic	750 SF	None
Fire Door - Metal	7	None
Transite Siding around Cooling Tower	300 SF	None
Insulation on Fire Dampers	50 each	None
Electrical Wiring	NQ	Not quantified
Electrical Panel Components	NQ	Not quantified
Liner Inside Cooling Tanks	NA	Could not identify/verify



Spruce Hall #28 CDB# BB028

4 Floors, including 1 below grade (Basement)

91,450 SF

Material	Quantity	Notes
Insulation behind False Exterior Windows (Center Windows)	2,600 SF	Fiberglass with a Chrysotile Membrane
Black Sealant on Interior Glass Windows	1,500 LF	None
Black Door Frame Caulk	1,000 SF	None
Sprayed-on Plaster Ceiling	1,000 SF	None
9" X 9" Vinyl Floor Tile and Mastic	2,700 SF	None
Vinyl Sheet Good with Mastic	2,971 SF	None
Fire Doors - Metal	33	None
Fire Damper Insulation	124 SF	None
Exhaust Backdraft Damper	352 each	None
Vibration Damper Insulation	96 SF	None
Cementitious Insulation on Conversion Tank	100 SF	None
Electrical Wiring	NQ	Not quantified
Electrical Panel Components	NQ	Not quantified
Elevator Doors/Equipment	1 Elevator Car	None
TSI*	1,400 LF	None

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Figure 20
Building Details





Mimosa Hall #29 CDB# BB029

3 Floors, including 1 below grade (Basement)

30,162 SF

Material	Quantity	Notes
TSI*	3,000 LF	Throughout various pipe sizes. Main level above the ceiling hot and cold water lines are wrapped, but due to limited access, could not verify how much of this material is fiberglass and how much is ACM
9" X 9" Floor Tile and Mastic	1,590 SF	None
1' X 1' Floor Tile and Mastic	2,704 SF	None
Fire Door - Wood	7	None
Fire Door - Metal	7	None
Mastic under Wood Floor	4,500 SF - Gym 792 SF - Auditorium Stage	None
Carpet Mastic over Vinyl Tile	2,679 SF	None
Fire Damper Insulation	32 SF	None
Exhaust Backdraft Damper Insulation	96 each	None
Canvas Vibration Damper	16 SF	None
Electrical Wiring	NQ	Not quantified
Electrical Panel Components	NQ	Not quantified
Transite on Cooling Tower	350 SF	None



Gen Mech Store/Shop #30 CDB# BB030

1 Floor, No Basement

48,525 SF

Material	Quantity	Notes
TSI*	1,200 LF	None
9" X 9" Floor Tile and Mastic	2,352 SF	None
1' X 1' Floor Tile and Mastic	50 SF	None
Cooler Door Insulation	150 SF	None
Exhaust Backdraft Damper Insulation	15 each	None
Insulation inside fire damper access panel	5 SF	None
Mastic Sealant around Conduit	10 SF	None
Metal Fire Doors	2	None
Exterior Window Glaze	1,500 LF	None
Electrical Wiring	NQ	Not quantified
Electrical Panel Components	NQ	Not quantified
Asbestos Stockpile	NA	Could not identify/verify
Lead-Based Paint	NA**	All material was in good condition

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Figure 21
Building Details



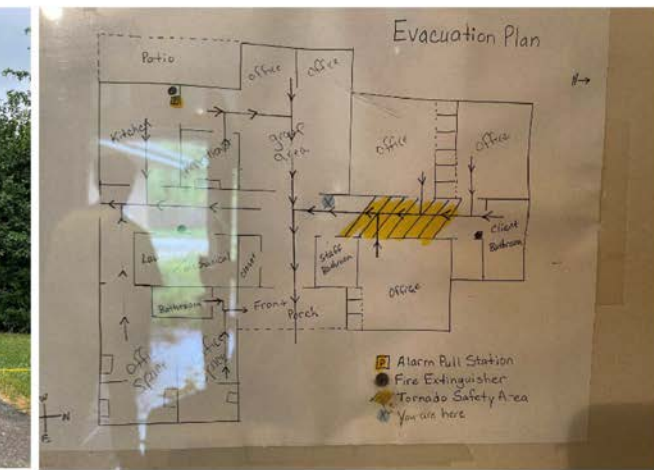


Cedar Hall #32 CDB# BB032

1 Floor, plus Penthouse, No Basement

30,000 SF

Material	Quantity	Notes
TSI*	888 LF	Mechanical room in basement is inaccessible due to flooding; therefore, the quantity estimate is based on 1994 Fox OM Plan
1' X 1' Floor Tile and Mastic	352 SF	None
9" X 9" Floor Tile and Mastic	2,560 SF	None
Sheet Goods with Mastic	18,738 SF	None
Fire Doors - Metal	8	None
Built-up Roofing	4,900 SF	None
Mastic under Wood Floor	3,750 SF	None
Fire Damper Insulation	4 SF	None
Electrical Wiring	NQ	Not quantified
Electrical Panel Components	NQ	Not quantified
Exhaust Backdraft Damper Insulation	8 each	None
Lead-Based Paint	25 SF	Orange door/door frame



Cottages #1-6 (Building #24, 40-45 #32) CDB# B4114, B4214,4314,4414,4514,4614, and 4714

Each Cottage 1 Floor, No Basement

2,600 SF Each

Materials Per Unit	Quantity	Notes
1' X 1' Floor Tile and Mastic	2,600 SF	None
Metal Fire Doors	6 each	None
Fire Damper Insulation	30 each	None
Exhaust Backdraft Damper Insulation	10 each	None
Lead-Based Paint	NA**	All material was in good condition

Former Tinley Park Health Center
Tinley Park, Cook County, Illinois

Figure 22
Building Details



APPENDIX D: INSPECTOR CERTIFICATIONS



525-535 West Jefferson Street • Springfield, Illinois 62761-0001 • www.dph.illinois.gov

CARYN CASTILLO
 2041 N 52ND STREET
 MILWAUKEE, WI 53208

7/25/2023




ASBESTOS PROFESSIONAL LICENSE ID NUMBER: 08438

Enclosed is your Asbestos Professional License. Please note the expiration date on the card and in the image depicted below.

COPY OF THE ASBESTOS PROFESSIONAL LICENSE

Front of License

Back of License

 <p>ASBESTOS PROFESSIONAL LICENSE</p>			<p>ENDORSEMENTS</p> <p>INSPECTOR</p> <p>PROJECT MANAGER</p> <p>AIR SAMPLING PROFESSIONAL</p> <p>Alteration of this license shall result in legal action This license issued under authority of the State of Illinois Department of Public Health This license is valid only when accompanied by a valid training course certificate.</p>	<p>TC EXPIRES</p> <p>2/2/2024</p> <p>3/27/2024</p>
<p>ID NUMBER 100 - 08438</p> <p>CARYN CASTILLO 2041 N 52ND STREET MILWAUKEE, WI 53208 Environmental Health</p>	<p>ISSUED 7/25/2023</p> 	<p>EXPIRES 05/15/2024</p> 		

If you have any questions or need further assistance, contact the Asbestos Program at (217)782-3517 or fax (217)785-5897.

Our WEB address is: dph.illinois.gov/topics-services/environmental-health-protection/asbestos
 EMAIL Address: dph.asbestos@illinois.gov



ILLINOIS DEPARTMENT OF PUBLIC HEALTH

IDPH

SAFER • HEALTHIER • TOGETHER

ASBESTOS PROFESSIONAL LICENSE

ID NUMBER

100 - 19160

ISSUED

5/9/2023

EXPIRES

05/15/2024

CHRISTOPHER D FORST

303 W DIVISION ST #813

CHICAGO, IL 60610

Environmental Health



ENDORSEMENTS

TC EXPIRES

INSPECTOR

5/16/2023

PROJECT MANAGER

4/22/2024

AIR SAMPLING PROFESSIONAL

Alteration of this license shall result in legal action

This license issued under authority of the State of Illinois

Department of Public Health

This license is valid only when accompanied by a valid
training course certificate.



OCCUPATIONAL TRAINING & SUPPLY, INC.

Asbestos Building Inspector Refresher

Occupational Training & Supply, Inc. certifies that

Christopher Forst

has successfully completed the Asbestos Building Inspector Refresher course and has passed the competency exam with a minimum score of 70%. The course is accredited by the Illinois Department of Public Health and Indiana Department of Environmental Management for purposes of accreditation in accordance with EPA 40 CFR 763, Asbestos Hazard Emergency response Act (AHERA) and TSCA Title II.

Course Date: 5/12/2023

Exam Date: 5/12/2023

Expiration Date: 5/12/2024

Certificate Number: BIR2305121644

Kathy DeSalvo, Director



OCCUPATIONAL TRAINING & SUPPLY, INC.

Asbestos Abatement Supervisor Refresher

Occupational Training & Supply, Inc. certifies that

Christopher Forst

has successfully completed the Asbestos Abatement Supervisor Refresher course and has passed the competency exam with a minimum score of 70%. The course is accredited by the Illinois Department of Public Health and Indiana Department of Environmental Management for purposes of accreditation in accordance with EPA 40 CFR 763, Asbestos Hazard Emergency response Act (AHERA) and TSCA Title II.

Course Date: 4/22/2023

Exam Date: 4/22/2023

Expiration Date: 4/22/2024

Certificate Number: ASR2304221231

Kathy DeSalvo, Director



Four Elements Environmental, Inc.

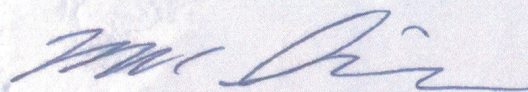
1600 Homestead Road #107 La Grange Park, Illinois 888-589-9998

AIHA Laboratory # 194837

SAMPLING AND EVALUATION OF AIRBORNE FIBERS USING NIOSH METHOD 7400 COURSE (NIOSH 582 - EQUIVALENT COURSE)

Chris D. Forst

has successfully completed the 32 hour **Sampling And Evaluation Of Airborne Fibers Using NIOSH Method 7400 Course** (NIOSH 582 Equivalent) and has passed the competency exam with a minimum score of 70%.



Mark C. Simmons MS, Instructor & Director of Academic Affairs

Course Dates: June 03 to 06, 2013

Exam Date: June 06, 2013

Expiration Date: None

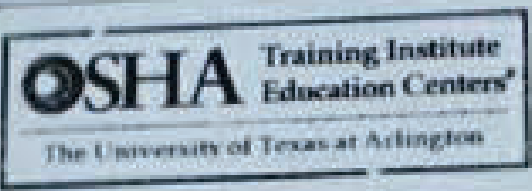
Certificate: FEE06062013-02

ENDORSEMENTS
SUPERVISOR/WORKER
INSPECTOR

TC EXPIRES
1/9/2024
1/6/2024

AIR SAMPLING PROFESSIONAL

Alteration of this license shall result in legal action
This license issued under authority of the State of Illinois
Department of Public Health
This license is valid only when accompanied by a valid
training course certificate.



866-906-9190
www.uta.edu/dod/osha

OSHA recommends Outreach Training Courses as an orientation to occupational safety and health for workers. Participation is voluntary. Workers must receive additional training on specific hazards of their job. This course completion card does not expire.

Use or distribution of this card for fraudulent purposes, including false claims of having received training, may result in prosecution under 18 U.S.C. 1001. Potential penalties include substantial criminal fines, imprisonment up to 5 years, or both.

To verify this training, scan the QR code with your mobile device.



Rev 1/2016

This certification is issued pursuant to Revised Code Chapter 3710 and Ohio Administrative Code Chapter 3745-22.

Your certification card is valid for a period of one (1) year, as indicated by the expiration date on the card.

Your card must be present on any project site where you are conducting asbestos-related work.

All questions regarding your certification should be directed to 614-644-0226 or asbestoslicensing@epa.ohio.gov

If found please return card to

Ohio EPA, DAPC
P.O. Box 1049
Columbus, OH 43216





**ASBESTOS
PROFESSIONAL
LICENSE**

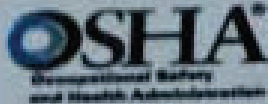
ID NUMBER
100 - 03506

ISSUED
7/19/2023

EXPIRES
05/15/2024

MICHAEL R ALLEN
8222 S ANTHONY
CHICAGO, IL 60617

Environmental Health



26-607460000

This card acknowledges that the recipient has successfully completed:

30-hour Construction Safety and Health

This card issued to:
MICHAEL ALLEN

Jason Lane Cole

Trainer Name

07/08/2023

Date of Issue

State of Ohio
Environmental Protection Agency
Asbestos Program

Asbestos Hazard Evaluation Specialist

**Michael
Allen**



812 Aqua Marine Blvd
Avon Lake OH 44012



DOB: 5/13/56

Certification Number Expiration Date

ES546684

4/11/24

**Card not Valid
if Altered**



Asbestos Building Inspector Refresher

Occupational Training & Supply, Inc. certifies that

Michael Allen


has successfully completed the Asbestos Building Inspector Refresher course and has passed the competency exam with a minimum score of 70%. The course is accredited by the Illinois Department of Public Health and Indiana Department of Environmental Management for purposes of accreditation in accordance with EPA 40 CFR 763, Asbestos Hazard Emergency response Act (AHERA) and TSCA Title II.

Course Date: 1/6/2023

Exam Date: 1/6/2023

Expiration Date: 1/6/2024

Certificate Number: BIR2301060019


Kathy DeSalvo, Director



CERTIFICATE OF COMPLETION

This certifies that

michael allen

is awarded this certificate for

OSHA 30 Hour Outreach Training Program - Construction



Blake

Jason Cain, Trainer C-29-0111284 and C-29-0063108



As an OSHA Outreach Training Program Trainer, I affirm that I have completed this OSHA Outreach Training Program (in-person or accordance with OSHA Outreach Training Program requirements), I will document this course to my OSHA Authorizing Training Organization. Upon successful review of my documentation, I will provide each student their course completion card within 30 calendar days of the end of the class.

*As an IACET Accredited Provider, 360training.com, Inc. offers IACET CEUs for its learning events that comply with the IACET Continuing Education and Training Standard.

THIS CERTIFICATE IS NON-TRANSFERABLE

6000 Plaza on the Lake, Suite 305 | Austin, TX 78748 | 877.888.2220 | www.360training.com

Larry Jackson & Associates, LTD.
9357 S. Kingston * Chicago, IL. 60617

THIS CERTIFIES THAT

MICHAEL R. ALLEN

XXX-XX- 7504

Has successfully completed the

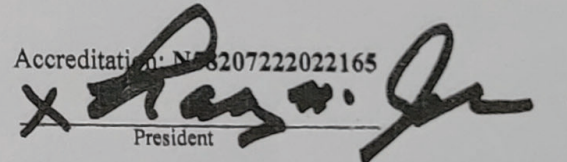
NIOSH 582 COURSE

Sampling and Evaluating Airborne Asbestos Dust

With a minimum score of 70 percent or greater for accreditation.

Course Date: August 15 to 19,2022
Expiration Date: NONE
This course is fully approved by the Illinois Department
of Public Health for the purpose of accreditation.

Accreditation: N 8207222022165


President

**APPENDIX E: LABORATORY ACM ANALYTICAL RESULTS AND
CHAIN-OF-CUSTODY FORMS**



EMSL Analytical, Inc.

4140 Litt Drive Hillside, IL 60162
Tel/Fax: (773) 313-0099 / (773) 313-0139
<http://www.EMSL.com> / chicagolab@emsl.com

EMSL Order: 262308615
Customer ID: TEHC25
Customer PO:
Project ID:

Attention: Caryn Castillo
Tetra Tech, Inc.
1 South Wacker Dr.
Suite 3700
Chicago, IL 60606
Project: 103S8985 TINLEY PARK MH

Phone: (847) 687-0089
Fax:
Received Date: 09/21/2023 9:26 AM
Analysis Date: 09/22/2023 - 09/25/2023
Collected Date:

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
OAK 0905-01-Ceramic Tile <small>262308615-0001</small>	WALL TILE & GROUT/MORTAR	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
OAK 0905-01-Grout <small>262308615-0001A</small>	WALL TILE & GROUT/MORTAR	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
OAK 0905-01-Mortar <small>262308615-0001B</small>	WALL TILE & GROUT/MORTAR	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
OAK 0905-02-Ceramic Tile <small>262308615-0002</small>	WALL TILE & GROUT/MORTAR				Layer Not Present
OAK 0905-02-Grout/Mortar <small>262308615-0002A</small>	WALL TILE & GROUT/MORTAR				Layer Not Present
OAK 0905-02-Skim Coat <small>262308615-0002B</small>	WALL TILE & GROUT/MORTAR	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
OAK 0905-03-Ceramic Tile <small>262308615-0003</small>	WALL TILE & GROUT/MORTAR	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
OAK 0905-03-Mortar <small>262308615-0003A</small>	WALL TILE & GROUT/MORTAR	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
OAK 0905-04 <small>262308615-0004</small>	BLACK GLASS WINDOW SEALANT	Black Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
OAK 0905-05 <small>262308615-0005</small>	BLACK GLASS WINDOW SEALANT	Black Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
OAK 0905-06 <small>262308615-0006</small>	BLACK GLASS WINDOW SEALANT	Black Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
OAK 0905-07 <small>262308615-0007</small>	TERRAZZO FLOOR	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
OAK 0905-08 <small>262308615-0008</small>	TERRAZZO FLOOR	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
OAK 0905-09 <small>262308615-0009</small>	TERRAZZO FLOOR	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Initial report from: 09/25/2023 13:36:07



EMSL Analytical, Inc.

4140 Litt Drive Hillside, IL 60162
Tel/Fax: (773) 313-0099 / (773) 313-0139
<http://www.EMSL.com> / chicagolab@emsl.com

EMSL Order: 262308615
Customer ID: TEHC25
Customer PO:
Project ID:

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
OAK 0905-10 <small>262308615-0010</small>	GLUE PUCK (12" CEILING TILE)	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
OAK 0905-11 <small>262308615-0011</small>	GLUE PUCK (12" CEILING TILE)	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
OAK 0905-12 <small>262308615-0012</small>	GLUE PUCK (12" CEILING TILE)	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MPL-0905-01 <small>262308615-0013</small>	WINDOW CAULK	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MPL-0905-02 <small>262308615-0014</small>	WINDOW CAULK	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MPL-0905-03 <small>262308615-0015</small>	WINDOW CAULK	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MPL-0905-07 <small>262308615-0019</small>	MASTIC ASSOC W/12" PINK	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MPL-0905-08 <small>262308615-0020</small>	MASTIC ASSOC W/12" PINK	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MPL-0905-09 <small>262308615-0021</small>	MASTIC ASSOC W/12" PINK	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MPL-0905-10-Tile <small>262308615-0022</small>	TERRA COTTA/MORTAR	Red Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MPL-0905-10-Mortar <small>262308615-0022A</small>	TERRA COTTA/MORTAR	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MPL-0905-11-Tile <small>262308615-0023</small>	TERRA COTTA/MORTAR	Red Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MPL-0905-11-Mortar <small>262308615-0023A</small>	TERRA COTTA/MORTAR	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MPL-0905-12-Tile <small>262308615-0024</small>	TERRA COTTA/MORTAR	Red Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MPL-0905-12-Mortar <small>262308615-0024A</small>	TERRA COTTA/MORTAR	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MPL-0905-13-Ceramic Tile <small>262308615-0025</small>	CERAMIC WALL TILE/MORTAR	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MPL-0905-13-Mortar <small>262308615-0025A</small>	CERAMIC WALL TILE/MORTAR				Layer Not Present
MPL-0905-14-Ceramic Tile <small>262308615-0026</small>	CERAMIC WALL TILE/MORTAR	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Initial report from: 09/25/2023 13:36:07



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4140 Litt Drive Hillside, IL 60162

Tel/Fax: (773) 313-0099 / (773) 313-0139

<http://www.EMSL.com/chicagolab@emsl.com>

EMSL Order: 262308615
Customer ID: TEHC25
Customer PO:
Project ID:

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
MPL-0905-14-Mortar <small>262308615-0026A</small>	CERAMIC WALL TILE/MORTAR	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MPL-0905-15-Ceramic Tile <small>262308615-0027</small>	CERAMIC WALL TILE/MORTAR	White/Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MPL-0905-15-Mortar <small>262308615-0027A</small>	CERAMIC WALL TILE/MORTAR	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MPL-0905-16 <small>262308615-0028</small>	CEILING PLASTER TEXTURED RM 306	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MPL-0905-17 <small>262308615-0029</small>	CEILING PLASTER TEXTURED RM 306	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MPL-0905-18 <small>262308615-0030</small>	CEILING PLASTER TEXTURED RM 306	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MPL-0905-19 <small>262308615-0031</small>	BLACK PAPER BACKING METAL CT FIBERGLASS INSERTS	Black Fibrous Homogeneous	90% Cellulose	10% Non-fibrous (Other)	None Detected
MPL-0905-20 <small>262308615-0032</small>	BLACK PAPER BACKING METAL CT FIBERGLASS INSERTS	Black Fibrous Homogeneous	90% Cellulose	10% Non-fibrous (Other)	None Detected
MPL-0905-21 <small>262308615-0033</small>	BLACK PAPER BACKING METAL CT FIBERGLASS INSERTS	Black Fibrous Homogeneous	90% Cellulose	10% Non-fibrous (Other)	None Detected
MPL-0905-22 <small>262308615-0034</small>	ROOF CAULK	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MPL-0905-23 <small>262308615-0035</small>	ROOF CAULK	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MPL-0905-24 <small>262308615-0036</small>	ROOF CAULK	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MPL-0905-25-Ceramic Tile <small>262308615-0037</small>	BROWN CERAMIC FT & MORTAR	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MPL-0905-25-Mortar <small>262308615-0037A</small>	BROWN CERAMIC FT & MORTAR	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MPL-0905-26-Ceramic Tile <small>262308615-0038</small>	BROWN CERAMIC FT & MORTAR	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MPL-0905-26-Mortar <small>262308615-0038A</small>	BROWN CERAMIC FT & MORTAR	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MPL-0905-27-Ceramic Tile <small>262308615-0039</small>	BROWN CERAMIC FT & MORTAR	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Initial report from: 09/25/2023 13:36:07



EMSL Analytical, Inc.

4140 Litt Drive Hillside, IL 60162
Tel/Fax: (773) 313-0099 / (773) 313-0139
<http://www.EMSL.com> / chicagolab@emsl.com

EMSL Order: 262308615
Customer ID: TEHC25
Customer PO:
Project ID:

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
MPL-0905-27-Mortar 262308615-0039A	BROWN CERAMIC FT & MORTAR	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MPL-0905-28-Ceramic Tile 262308615-0040	BEIGE CERAMIC WALL TILE /GROUT	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MPL-0905-28-Grout 262308615-0040A	BEIGE CERAMIC WALL TILE /GROUT	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MPL-0905-28-Glue 262308615-0040B	BEIGE CERAMIC WALL TILE /GROUT	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MPL-0905-29-Ceramic Tile 262308615-0041	BEIGE CERAMIC WALL TILE /GROUT	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MPL-0905-29-Grout 262308615-0041A	BEIGE CERAMIC WALL TILE /GROUT	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MPL-0905-29-Glue 262308615-0041B	BEIGE CERAMIC WALL TILE /GROUT	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MPL-0905-30-Ceramic Tile 262308615-0042	BEIGE CERAMIC WALL TILE /GROUT	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MPL-0905-30-Grout 262308615-0042A	BEIGE CERAMIC WALL TILE /GROUT	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MPL-0905-30-Glue 262308615-0042B	BEIGE CERAMIC WALL TILE /GROUT	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
SPR-0905-01-Insulation 262308615-0043	EXTERIOR /INTERIOR WINDOW INSULATION SPRUCE	White Fibrous Homogeneous	98% Glass	2% Non-fibrous (Other)	None Detected
SPR-0905-01-Wrap 262308615-0043A	EXTERIOR /INTERIOR WINDOW INSULATION SPRUCE	White/Black/Silver Fibrous Homogeneous		30% Non-fibrous (Other)	70% Chrysotile
SPR-0905-02 262308615-0044	EXTERIOR /INTERIOR WINDOW INSULATION SPRUCE	White Fibrous Homogeneous	98% Glass	2% Non-fibrous (Other)	None Detected
SPR-0905-03 262308615-0045	EXTERIOR /INTERIOR WINDOW INSULATION SPRUCE	White Fibrous Homogeneous	98% Glass	2% Non-fibrous (Other)	None Detected
SPR-0905-04 262308615-0046	PAPER BACKING METAL CEILING TILE INSERTS	Tan/Black/Silver Non-Fibrous Homogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
SPR-0905-05 262308615-0047	PAPER BACKING METAL CEILING TILE INSERTS	Tan/Black/Silver Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
SPR-0905-06 262308615-0048	PAPER BACKING METAL CEILING TILE INSERTS	Tan/Black/Silver Non-Fibrous Homogeneous	5% Cellulose	95% Non-fibrous (Other)	None Detected

Initial report from: 09/25/2023 13:36:07



EMSL Analytical, Inc.

4140 Litt Drive Hillside, IL 60162
Tel/Fax: (773) 313-0099 / (773) 313-0139
<http://www.EMSL.com> / chicagolab@emsl.com

EMSL Order: 262308615
Customer ID: TEHC25
Customer PO:
Project ID:

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
SPR-0905-07 262308615-0049	BLACK WINDOW /GLASS SEALANT	Black Non-Fibrous Homogeneous		92% Non-fibrous (Other)	8% Chrysotile
SPR-0905-08 262308615-0050	BLACK WINDOW /GLASS SEALANT	Black Non-Fibrous Homogeneous		92% Non-fibrous (Other)	8% Chrysotile
SPR-0905-09 262308615-0051	BLACK WINDOW /GLASS SEALANT	Black Non-Fibrous Homogeneous		92% Non-fibrous (Other)	8% Chrysotile
SPR-0905-10 262308615-0052	DOOR FRAME CAULKING	Black Non-Fibrous Homogeneous		92% Non-fibrous (Other)	8% Chrysotile
SPR-0905-11 262308615-0053	DOOR FRAME CAULKING	Black Non-Fibrous Homogeneous		92% Non-fibrous (Other)	8% Chrysotile
SPR-0905-12 262308615-0054	DOOR FRAME CAULKING	Black Non-Fibrous Homogeneous		92% Non-fibrous (Other)	8% Chrysotile
SPR-0905-13 262308615-0055	TERRAZZO FLOOR	White/Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
SPR-0905-14 262308615-0056	TERRAZZO FLOOR	White/Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
SPR-0905-15 262308615-0057	TERRAZZO FLOOR	White/Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
SPR-0905-16-Block 262308615-0058	CERAMIC WALL BLOCK	Gray/Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
SPR-0905-16-Mortar 262308615-0058A	CERAMIC WALL BLOCK	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
SPR-0905-17-Block 262308615-0059	CERAMIC WALL BLOCK	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
SPR-0905-17-Mortar 262308615-0059A	CERAMIC WALL BLOCK	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
SPR-0905-18-Block 262308615-0060	CERAMIC WALL BLOCK	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
SPR-0905-18-Mortar 262308615-0060A	CERAMIC WALL BLOCK	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
WTR-0906-01 262308615-0061	BLACK DUCT SEALANT	Black Non-Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
WTR-0906-02 262308615-0062	BLACK DUCT SEALANT	Black Non-Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
WTR-0906-03 262308615-0063	BLACK DUCT SEALANT	Black Non-Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
WTR-0906-04 262308615-0064	WALL SEAM CAULK	White Non-Fibrous Homogeneous		95% Non-fibrous (Other)	5% Chrysotile

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EMSL Order: 262308615
Customer ID: TEHC25
Customer PO:
Project ID:

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
WTR-0906-05 262308615-0065	WALL SEAM CAULK	White Non-Fibrous Homogeneous		95% Non-fibrous (Other)	5% Chrysotile
WTR-0906-06 262308615-0066	WALL SEAM CAULK	White Non-Fibrous Homogeneous		95% Non-fibrous (Other)	5% Chrysotile
MCE-0906-04 262308615-0070	BLACK MASTIC	Black Non-Fibrous Homogeneous		96% Non-fibrous (Other)	4% Chrysotile
MCE-0906-05 262308615-0071	BLACK MASTIC	Black Non-Fibrous Homogeneous		96% Non-fibrous (Other)	4% Chrysotile
MCE-0906-06 262308615-0072	BLACK MASTIC	Black Non-Fibrous Homogeneous		96% Non-fibrous (Other)	4% Chrysotile
MCE-0906-07 262308615-0073	EXT. WINDOW GLAZING	Gray Non-Fibrous Homogeneous		97% Non-fibrous (Other)	3% Chrysotile
MCE-0906-08 262308615-0074	EXT. WINDOW GLAZING	Gray Non-Fibrous Homogeneous		97% Non-fibrous (Other)	3% Chrysotile
MCE-0906-09 262308615-0075	EXT. WINDOW GLAZING	Gray Non-Fibrous Homogeneous		97% Non-fibrous (Other)	3% Chrysotile
MCE-0906-10 262308615-0076	2X4 CEILING TILE	Gray/White Fibrous Homogeneous	30% Cellulose 30% Min. Wool	30% Perlite 10% Non-fibrous (Other)	None Detected
MCE-0906-11 262308615-0077	2X4 CEILING TILE	Gray/White Fibrous Homogeneous	30% Cellulose 30% Min. Wool	30% Perlite 10% Non-fibrous (Other)	None Detected
MCE-0906-12 262308615-0078	2X4 CEILING TILE	Gray/White Fibrous Homogeneous	30% Cellulose 30% Min. Wool	30% Perlite 10% Non-fibrous (Other)	None Detected
MCE-0906-13-Flooring 262308615-0079	TERRA COTTA FLOOR/MORTAR	Red Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MCE-0906-13-Mortar 262308615-0079A	TERRA COTTA FLOOR/MORTAR	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MCE-0906-14-Flooring 262308615-0080	TERRA COTTA FLOOR/MORTAR	Red Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MCE-0906-14-Mortar 262308615-0080A	TERRA COTTA FLOOR/MORTAR	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MCE-0906-15-Flooring 262308615-0081	TERRA COTTA FLOOR/MORTAR	Red Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MCE-0906-15-Mortar 262308615-0081A	TERRA COTTA FLOOR/MORTAR	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MCE-0906-16 262308615-0082	COOLER INSULATION	White/Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MCE-0906-17 262308615-0083	COOLER INSULATION	White/Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

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Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
MCE-0906-18 <small>262308615-0084</small>	COOLER INSULATION	White/Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
CDR-0905-01-Felt Paper <small>262308615-0085</small>	ROOFING FIELD	Black Fibrous Homogeneous	70% Cellulose 25% Glass	5% Non-fibrous (Other)	None Detected
CDR-0905-01-Foam <small>262308615-0085A</small>	ROOFING FIELD	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
CDR-0905-02-Felt Paper <small>262308615-0086</small>	ROOFING FIELD	Black Fibrous Homogeneous	70% Cellulose 25% Glass	5% Non-fibrous (Other)	None Detected
CDR-0905-02-Foam <small>262308615-0086A</small>	ROOFING FIELD	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
CDR-0905-03-Flashing <small>262308615-0087</small>	ROOF FLASHING	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
CDR-0905-03-Adhesive <small>262308615-0087A</small>	ROOF FLASHING	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
CDR-0905-04-Flashing <small>262308615-0088</small>	ROOF FLASHING	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
CDR-0905-04-Adhesive <small>262308615-0088A</small>	ROOF FLASHING	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
CDR-0905-05 <small>262308615-0089</small>	WOOD WOOL CEILING TILES	White/Beige Fibrous Homogeneous	96% Cellulose	4% Non-fibrous (Other)	None Detected
CDR-0905-06 <small>262308615-0090</small>	WOOD WOOL CEILING TILES	White/Beige Fibrous Homogeneous	96% Cellulose	4% Non-fibrous (Other)	None Detected
CDR-0905-07 <small>262308615-0091</small>	WOOD WOOL CEILING TILES	White/Beige Fibrous Homogeneous	96% Cellulose	4% Non-fibrous (Other)	None Detected
MIM0906-01-Skim Coat <small>262308615-0092</small>	PLASTER CEILING	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MIM0906-01-Base Coat <small>262308615-0092A</small>	PLASTER CEILING	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MIM0906-02-Skim Coat <small>262308615-0093</small>	PLASTER CEILING	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MIM0906-02-Base Coat <small>262308615-0093A</small>	PLASTER CEILING	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MIM0906-03-Skim Coat <small>262308615-0094</small>	PLASTER CEILING	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MIM0906-03-Base Coat <small>262308615-0094A</small>	PLASTER CEILING	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

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Customer ID: TEHC25
Customer PO:
Project ID:

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
MIM0906-04 262308615-0095	TAPE ON FIBERGLASS INSULATION	Brown/Black/Silver Fibrous Homogeneous	75% Cellulose	25% Non-fibrous (Other)	None Detected
MIM0906-05 262308615-0096	TAPE ON FIBERGLASS INSULATION	Brown/Black/Silver Fibrous Homogeneous	75% Cellulose	25% Non-fibrous (Other)	None Detected
MIM0906-06 262308615-0097	TAPE ON FIBERGLASS INSULATION	Brown/Black/Silver Fibrous Homogeneous	75% Cellulose	25% Non-fibrous (Other)	None Detected
MIM0906-07-Board 262308615-0098	CHALK/ BULLETIN BOARD GLUE	Pink/Green Non-Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
MIM0906-07-Glue 262308615-0098A	CHALK/ BULLETIN BOARD GLUE	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MIM0906-08-Board 262308615-0099	CHALK/ BULLETIN BOARD GLUE	Pink/Green Non-Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
MIM0906-08-Glue 262308615-0099A	CHALK/ BULLETIN BOARD GLUE	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MIM0906-09-Board 262308615-0100	CHALK/ BULLETIN BOARD GLUE	Pink/Green Non-Fibrous Homogeneous	5% Cellulose	95% Non-fibrous (Other)	None Detected
MIM0906-09-Glue 262308615-0100A	CHALK/ BULLETIN BOARD GLUE	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MIM0906-10 262308615-0101	STAGE CURTAIN	Red Fibrous Homogeneous	98% Synthetic	2% Non-fibrous (Other)	None Detected
MIM0906-11 262308615-0102	STAGE CURTAIN	Red Fibrous Homogeneous	98% Synthetic	2% Non-fibrous (Other)	None Detected
POOL-01 262308615-0103	GYM FLOOR INSULATION	Brown/Black Fibrous Homogeneous	90% Cellulose	10% Non-fibrous (Other)	None Detected
POOL-02 262308615-0104	GYM FLOOR INSULATION	Brown/Black Fibrous Homogeneous	90% Cellulose	10% Non-fibrous (Other)	None Detected
POOL-03 262308615-0105	GYM FLOOR INSULATION	Brown/Black Fibrous Homogeneous	90% Cellulose	10% Non-fibrous (Other)	None Detected
WIL-0906-01-Mesh 262308615-0106	SUPPLY DUCT FINISH	White Fibrous Homogeneous	98% Glass	2% Non-fibrous (Other)	None Detected
WIL-0906-01-Cementitious Layer 262308615-0106A	SUPPLY DUCT FINISH	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
WIL-0906-02-Mesh 262308615-0107	SUPPLY DUCT FINISH	White Fibrous Homogeneous	98% Glass	2% Non-fibrous (Other)	None Detected
WIL-0906-02-Cementitious Layer 262308615-0107A	SUPPLY DUCT FINISH	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

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Project ID:

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
WIL-0906-03-Mesh	SUPPLY DUCT FINISH	White Fibrous Homogeneous	96% Glass	4% Non-fibrous (Other)	None Detected
262308615-0108					
WIL-0906-03-Cementitious Layer	SUPPLY DUCT FINISH	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
262308615-0108A					

Analyst(s)

James Hahn (6)
Lauren Swain (52)
Mazen Elkhatib (44)
Selina Zeiss (43)

James Hahn, Laboratory Manager
or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method") but augmented with procedures outlined in the 1993 ("final") version of the method. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Estimation of uncertainty is available on request.

Samples analyzed by EMSL Analytical, Inc. Hillside, IL NVLAP Lab Code 200399-0

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EMSL Order: 262308615
Customer ID: TEHC25
Customer PO:
Project ID:

Attention: Caryn Castillo
Tetra Tech, Inc.
1 South Wacker Dr.
Suite 3700
Chicago, IL 60606
Project: 103S8985 TINLEY PARK MH

Phone: (847) 687-0089
Fax:
Received Date: 09/21/2023 9:26 AM
Analysis Date: 09/22/2023 - 09/25/2023
Collected Date:

Test Report: Asbestos Analysis of Non-Friable Organically Bound Materials by TEM via EPA/600/R-93/116 Section 2.5.5.1

Sample ID	Description	Appearance	% Matrix Material	% Non-Asbestos Fibers	Asbestos Types
MPL-0905-04 262308615-0016	12" PINK VFT	Pink Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
MPL-0905-05 262308615-0017	12" PINK VFT	Pink Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
MPL-0905-06 262308615-0018	12" PINK VFT	Pink Non-Fibrous Homogeneous	100.0 Other	None	No Asbestos Detected
MCE-0906-01 262308615-0067	12X12 WHITE VFT	White Non-Fibrous Homogeneous	97.9 Other	None	2.1% Chrysotile
MCE-0906-02 262308615-0068	12X12 WHITE VFT	White Non-Fibrous Homogeneous	97.8 Other	None	2.2% Chrysotile
MCE-0906-03 262308615-0069	12X12 WHITE VFT	White Non-Fibrous Homogeneous	97.5 Other	None	2.5% Chrysotile

Analyst(s)

James Hahn (6)

James Hahn, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. Hillside, IL

Initial report from: 09/25/2023 12:36:06

APPENDIX F: PREVIOUS SURVEY REPORTS: (ECG LBP SURVEY, ECG ACM PRE DEMOLITION SURVEY, and FOX ASBESTOS MANAGEMENT PLANS)



E n v i r o n m e n t a l C o n s u l t i n g G r o u p , I n c .

September 23, 2013

Ms. Liz Lofton
Vice President
Jones Lang LaSalle - Public Institutions
200 E. Randolph Street
Chicago, Illinois 60601

Re: **Lead-Based Paint Screening Inspection Report**
 Tinley Park Mental Health Center and Howe Developmental Center
 7400-7600 W. 183rd Street
 Tinley Park, Illinois

Dear Ms. Lofton:

In response to your request, Environmental Consulting Group, Inc. (ECG) completed testing for lead-based paint at the above-referenced property. This report provides an executive summary, an outline of the scope-of-work, and analytical results.

1.0 Executive Summary

On August 20 and 21, 2013, ECG representative Mr. Luke Nienhaus conducted a lead-based paint screening inspection in the vacant buildings located on the properties addressed as 7400-7600 West 183rd Street in Tinley Park, Illinois.

During the inspection, ECG obtained a total of 123 readings using an x-ray fluorescence (XRF) analyzer. Twenty-four XRF readings met the Environmental Protection Agency (EPA)-established definition for lead-based paint. Table I of Appendix C contains a complete listing of all measurements.

2.0 Scope-of-Work

The scope-of-work for this project included testing interior and exterior painted surfaces of the buildings on the subject property for lead-based paint (LBP). ECG representative Mr. Luke Nienhaus, an Illinois Department of Public Health (IDPH)-licensed lead inspector and lead risk assessor, conducted the inspection. The inspection and testing for the presence of lead-based paint was limited to screening major components and surfaces and is intended to identify areas of loose lead-based paint that would require special management when completing renovation and/or demolition activities.

Non-residential lead-based paint generated during demolition or renovation activity that is firmly adhered to its substrate or component can be disposed of as general refuse. However, if LBP is removed from the substrate or is in poor condition and flaking from the surface, the LBP waste would be considered a special waste and would require further testing to determine if the material is considered a hazardous material. The EPA Resource Conservation and Recovery Act (RCRA) would require the LBP waste materials to be tested using the Toxicity Characteristic Leaching Procedure (TCLP) to determine if they meet the criteria of a hazardous waste. Based on the analytical testing results, the LBP waste would need to be disposed of in EPA-approved landfills capable of accepting special or hazardous wastes.

Appendix A contains the ECG inspector's credentials.

3.0 Analytical Testing

ECG utilized a Niton XRF Analyzer - Model XLP300 to test building components for the presence of lead-based paint. The XRF utilizes a radioactive cadmium source to determine whether lead is present in a surface. During testing, the cadmium source releases a controlled gamma ray beam onto a surface. By measuring the diffraction gradient of the reflected emissions, the XRF detector determines whether or not lead is present in the surface material (e.g., paint). To ensure an accurate reading, ECG calibrated the XRF at the beginning and end of the inspection.

Appendix B contains required information regarding the XRF analyzer.

4.0 Inspection Results

The Environmental Protection Agency (EPA) defines lead-based paint as paint with a composition that includes lead at a concentration greater than or equal to one milligram of lead per square centimeter (mg/cm²) or 0.5 percent lead by weight.

ECG took 123 readings during the survey. Twenty-four (24) readings, including nine building components, revealed lead-based paint. The tested components found to contain lead-based paint included pipes, railings, garage doors, door frames, exterior walls, doors, columns, boilers, and stairway stringers.

Many of the components that tested positive for lead-based paint were found to be in “poor condition,” meaning that the paint on the component was either flaking, peeling, or in generally poor condition. These components may require attention when the building owner begins any renovation, demolition, or construction work on the subject property.

5.0 Conclusions

ECG conducted a lead-based paint inspection on the interior and exterior surfaces of the vacant buildings on the property addressed as 7400-7600 West 183rd Street in Tinley Park, Illinois. During the inspection, twenty-four (24) measurements, including nine building components, met the EPA-established definition for lead-based paint. ECG collected these measurements in seven of the buildings on the subject property, including the following: Mechanical and Engineering spaces, State Garage 48, Water Plant, Gas House, Cedar Hall, Cottage 3, and the Power Plant.

Table I of Appendix C contains a complete listing of all readings. Table I also identifies the condition of the paint surface tested. A condition listing of “poor” indicates that the paint surface is flaking and paint has likely fallen to the ground in these areas. Exterior painted surfaces that are in poor condition may have deposited LBP into the surrounding soil and additional evaluation of these conditions and materials would be necessary to determine required remedial actions and procedures.

Based on the results of the LBP screening the majority of lead based paints used on the property were found to be present in non-residential buildings and structures.

Observation areas containing significant flaking paint include the following:

- Mechanical and Engineering
- State Garage 48
- Water Plant
- Gas House
- Power Plant

The loose or flaking LBP should be removed from the surface by licensed lead remediation contractors and disposed of in accordance with RCRA. Loose paint that has fallen to the ground should be collected and the waste managed in accordance with RCRA as either a special or hazardous waste based on analytical testing.

6.0 Qualifications

ECG believes this study generally accords with the technical standards of practice for a lead-based paint survey at the time the study was conducted. The standard of care exercised for this study accords with generally accepted practices, and a reasonable effort was made to ensure that the information presented in this report is materially complete and accurate. The conclusions presented in this report are professional opinions based solely upon visual observations of the site and analytical data as described in this report. They are intended for the sole use of our client.

If you have any questions or comments, please contact our office.

Sincerely,

ENVIRONMENTAL CONSULTING GROUP, INC.



Luke Nienhaus
Environmental Technician

Appendices

Appendix A – ECG Certifications

Appendix B – XRF Documentation

Appendix C – Table I: Lead-Based Paint Testing Results

Appendix D – Table II: Lead-Based Paint Testing Results (Positive)

Appendix A

ECG Certifications



**LEAD RISK
ASSESSOR LICENSE**

LEAD ID	ISSUED	EXPIRES
012854	8/12/2013	1/31/2014

Luke C. Nienhaus
2238 N SAWYER #2
Chicago, IL 60647



ILLINOIS LEAD PROGRAM
Environmental Health



Occupational Training & Supply, Inc.

7233 Adams Street ♦ Willowbrook, IL 60527 ♦ (630) 655-3900

Lead Risk Assessor Refresher

Occupational Training and Supply, Inc. certifies that

Luke Nienhaus

has successfully completed the 8 hour Lead Risk Assessor Refresher course and has passed the competency exam with a minimum score of 70%. This course is accredited by the Illinois Department of Public Health in accordance with the Illinois Lead Poisoning Prevention Code.

Certificate: LRAR1211132111

Exam Date: 11/13/2012

Course Date: 11/13/2012

Expiration Date: 11/13/2015

Kathy DeSalvo, Director

2012



Occupational Training & Supply, Inc.

7233 Adams Street • Willowbrook, IL 60527 • (630) 655-3900

Luke Nienhaus

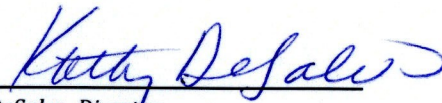
3117 N. Kenmore Ave. #3 Chicago, IL 60613

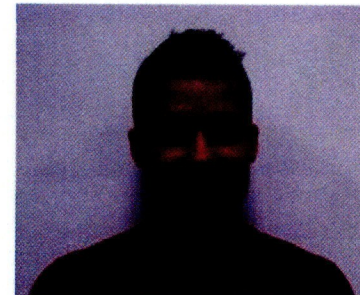
has successfully completed the 8 hour Initial Lead Safety for Renovation, Repair, and Painting course and has passed the competency exam with a minimum score of 70%. This course is accredited by the U.S. Environmental Protection Agency per 40 CFR 745.225.

LEAD SAFETY for Renovation, Repair, and Painting

Certificate: R-I-19168-10-01233

Course Date: 3/31/2010
Examination Date: 3/31/2010
Expiration Date: 3/31/2015
Language: English


Kathy DeSalvo, Director



2010

September 19, 2011

Luke Nienhaus
Environmental Consulting Group
411 South Wells St, Ste 700
Chicago, IL 60607

Subject: Radiation Safety and Operation Training Certificate – Thermo Scientific Niton XRF Analyzers

Dear Luke:

Congratulations on having successfully completed the Thermo Fisher Scientific Manufacturer's Training Course on the operation, monitoring, and maintenance of our handheld Thermo Scientific Niton x-ray fluorescence (XRF) analyzers. We admire your effort in attending this course and have enclosed your certificate of completion. This document certifies that you have been trained in radiation safety and monitoring, measurement technology, and routine analyzer maintenance pertaining to the use of Thermo Scientific Niton XRF instruments.

Please feel free to contact us to discuss your testing and analysis needs. Our trained, technical staff will help you identify best practices and testing methods that can increase productivity and help save you time and money.

For further information or to schedule an on-site demonstration at your convenience, please call us at (800) 875-1578. We also invite you to visit our web site at www.thermo.com/niton. We are committed to solving your analysis needs.

Best regards,



Sophie Ung
Radiation Safety Training Coordinator
Thermo Scientific Niton Analyzers

Radiation Safety and Operation of Niton XRF Analyzers

This is to certify that

Luke Nienhaus

has successfully completed the one day Thermo Fisher Scientific Niton Analyzer Manufacturer's Training Course. The topics of this course include radiation safety, monitoring, device operation, and machine maintenance of the Niton XRF Analyzer.

(CIH's – The ABIH Awards 1 CM point, approval # 08-354)

Course date: September 15, 2011
Location: Chicago, IL
Certificate Number: 13:490033000000PkaCk



Handwritten signature of Sophie Ung.

Sophie Ung
Radiation Safety Training Coordinator

Handwritten signature of James Blute.

James Blute, CHP
Manager of Health and Safety

Appendix B

XRF Documentation

Performance Characteristic Sheet

EFFECTIVE DATE: September 24, 2004

EDITION NO.: 1

MANUFACTURER AND MODEL:

Make: Niton LLC

Tested Model: XLp 300

Source: ^{109}Cd

Note: This PCS is also applicable to the equivalent model variations indicated below, for the Lead-in-Paint K+L variable reading time mode, in the XLi and XLp series:

XLi 300A, XLi 301A, XLi 302A and XLi 303A.

XLp 300A, XLp 301A, XLp 302A and XLp 303A.

XLi 700A, XLi 701A, XLi 702A and XLi 703A.

XLp 700A, XLp 701A, XLp 702A, and XLp 703A.

Note: The XLi and XLp versions refer to the shape of the handle part of the instrument. The differences in the model numbers reflect other modes available, in addition to Lead-in-Paint modes. The manufacturer states that specifications for these instruments are identical for the source, detector, and detector electronics relative to the Lead-in-Paint mode.

FIELD OPERATION GUIDANCE

OPERATING PARAMETERS:

Lead-in-Paint K+L variable reading time mode.

XRF CALIBRATION CHECK LIMITS:

0.8 to 1.2 mg/cm ² (inclusive)

The calibration of the XRF instrument should be checked using the paint film nearest 1.0 mg/cm² in the NIST Standard Reference Material (SRM) used (e.g., for NIST SRM 2579, use the 1.02 mg/cm² film).

If readings are outside the acceptable calibration check range, follow the manufacturer's instructions to bring the instruments into control before XRF testing proceeds.

SUBSTRATE CORRECTION:

For XRF results using Lead-in-Paint K+L variable reading time mode, substrate correction is not needed for:

Brick, Concrete, Drywall, Metal, Plaster, and Wood

INCONCLUSIVE RANGE OR THRESHOLD:

K+L MODE READING DESCRIPTION	SUBSTRATE	THRESHOLD (mg/cm ²)
Results not corrected for substrate bias on any substrate	Brick	1.0
	Concrete	1.0
	Drywall	1.0
	Metal	1.0
	Plaster	1.0
	Wood	1.0

BACKGROUND INFORMATION

EVALUATION DATA SOURCE AND DATE:

This sheet is supplemental information to be used in conjunction with Chapter 7 of the HUD *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing* ("HUD Guidelines"). Performance parameters shown on this sheet are calculated from the EPA/HUD evaluation using archived building components. Testing was conducted in August 2004 on 133 testing combinations. The instruments that were used to perform the testing had new sources; one instrument's was installed in November 2003 with 40 mCi initial strength, and the other's was installed June 2004 with 40 mCi initial strength.

OPERATING PARAMETERS:

Performance parameters shown in this sheet are applicable only when properly operating the instrument using the manufacturer's instructions and procedures described in Chapter 7 of the HUD Guidelines.

SUBSTRATE CORRECTION VALUE COMPUTATION:

Substrate correction is not needed for brick, concrete, drywall, metal, plaster or wood when using Lead-in-Paint K+L variable reading time mode, the normal operating mode for these instruments. If substrate correction is desired, refer to Chapter 7 of the HUD Guidelines for guidance on correcting XRF results for substrate bias.

EVALUATING THE QUALITY OF XRF TESTING:

Randomly select ten testing combinations for retesting from each house or from two randomly selected units in multifamily housing. Use the K+L variable time mode readings.

Conduct XRF retesting at the ten testing combinations selected for retesting.

Determine if the XRF testing in the units or house passed or failed the test by applying the steps below.

Compute the Retest Tolerance Limit by the following steps:

Determine XRF results for the original and retest XRF readings. Do not correct the original or retest results for substrate bias. In single-family housing a result is defined as the average of three readings. In multifamily housing, a result is a single reading. Therefore, there will be ten original and ten retest XRF results for each house or for the two selected units.

Calculate the average of the original XRF result and retest XRF result for each testing combination.

Square the average for each testing combination.

Add the ten squared averages together. Call this quantity C.

Multiply the number C by 0.0072. Call this quantity D.

Add the number 0.032 to D. Call this quantity E.

Take the square root of E. Call this quantity F.

Multiply F by 1.645. The result is the Retest Tolerance Limit.

Compute the average of all ten original XRF results.

Compute the average of all ten re-test XRF results.

Find the absolute difference of the two averages.

If the difference is less than the Retest Tolerance Limit, the inspection has passed the retest. If the difference of the overall averages equals or exceeds the Retest Tolerance Limit, this procedure should be repeated with ten new testing combinations. If the difference of the overall averages is equal to or greater than the Retest Tolerance Limit a second time, then the inspection should be considered deficient.

Use of this procedure is estimated to produce a spurious result approximately 1% of the time. That is, results of this procedure will call for further examination when no examination is warranted in approximately 1 out of 100 dwelling units tested.

TESTING TIMES:

For the Lead-in-Paint K+L variable reading time mode, the instrument continues to read until it is moved away from the testing surface, terminated by the user, or the instrument software indicates the reading is complete. The following table provides testing time information for this testing mode. The times have been adjusted for source decay, normalized to the initial source strengths as noted above. Source strength and type of substrate will affect actual testing times. At the time of testing, the instruments had source strengths of 26.6 and 36.6 mCi.

Testing Times Using K+L Reading Mode (Seconds)						
Substrate	All Data			Median for laboratory-measured lead levels (mg/cm ²)		
	25 th Percentile	Median	75 th Percentile	Pb < 0.25	0.25 ≤ Pb < 1.0	1.0 ≤ Pb
Wood Drywall	4	11	19	11	15	11
Metal	4	12	18	9	12	14
Brick Concrete Plaster	8	16	22	15	18	16

CLASSIFICATION RESULTS:

XRF results are classified as positive if they are greater than or equal to the threshold, and negative if they are less than the threshold.

DOCUMENTATION:

A document titled *Methodology for XRF Performance Characteristic Sheets* provides an explanation of the statistical methodology used to construct the data in the sheets, and provides empirical results from using the recommended inconclusive ranges or thresholds for specific XRF instruments. For a copy of this document call the National Lead Information Center Clearinghouse at 1-800-424-LEAD.

This XRF Performance Characteristic Sheet was developed by the Midwest Research Institute (MRI) and QuanTech, Inc., under a contract between MRI and the XRF manufacturer. HUD has determined that the information provided here is acceptable when used as guidance in conjunction with Chapter 7, Lead-Based Paint Inspection, of HUD's *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing*.

Appendix C

Table I : Lead-Based Paint Testing Results

Table I: Lead-Based Paint Testing Results

Tinley Park Mental Health Center and Howe Developmental Center
 7400-7600 W. 183rd Street
 Tinley Park, Illinois

Reading No	Date and Time	Type	Duration	Building	Floor	Side	Room	Component	Substrate	Condition	Color	Results	Lead Concentration (Mg/Cm ²)	
1	8/20/2013 9:40	SHUTTER_CAL	42.1	Calibration										2.67
2	8/20/2013 9:44	PAINT	20.01										Positive	1.1
3	8/20/2013 9:46	PAINT	20.08										Positive	1
4	8/20/2013 9:47	PAINT	20.28										Positive	1.1
5	8/20/2013 9:52	PAINT	3.83	maple	Basement	A	Hall	Wall	Brick	Intact	White	Negative	0	
6	8/20/2013 9:57	PAINT	2.64	maple		1 D	Hall	Wall	Plaster	Intact	White	Negative	0	
7	8/20/2013 9:57	PAINT	2.17	maple		1 B	Hall	Wall	Plaster	Intact	White	Negative	0.1	
8	8/20/2013 10:13	PAINT	2.65	maple		1 D	143	Wall	Plaster	Intact	White	Negative	0	
9	8/20/2013 10:14	PAINT	1.2	maple		1 D	Hall	Door	Metal	Intact	White	Negative	0	
10	8/20/2013 10:15	PAINT	2.4	maple		1 B	107	Wall	Plaster	Intact	White	Negative	0	
11	8/20/2013 10:19	PAINT	3.36	maple		1 A	laundry	Wall	Plaster	Intact	White	Negative	0.18	
12	8/20/2013 10:19	PAINT	1.2	maple		1 A	laundry	Trim	Plaster	Intact	White	Negative	0	
13	8/20/2013 10:22	PAINT	3.13	maple		2 B	259	Wall	Plaster	Intact	Beige	Negative	0.01	
14	8/20/2013 10:23	PAINT	3.6	maple		2 D	Hall	Wall	Plaster	Intact	Beige	Negative	0.27	
15	8/20/2013 10:24	PAINT	3.37	maple		2 A	212	Wall	Plaster	Intact	White	Negative	0	
16	8/20/2013 10:26	PAINT	1.93	maple		2 C	220	Wall	Plaster	Intact	pink	Negative	0	
17	8/20/2013 10:28	PAINT	3.36	maple		2 C	dining rm	Wall	Drywall	Intact	White	Negative	0.6	
18	8/20/2013 10:31	PAINT	3.11	maple		3 A	345	Wall	Plaster	Intact	White	Negative	0.08	
19	8/20/2013 10:33	PAINT	3.12	maple		3 A	330	Wall	Plaster	Intact	White	Negative	0	
20	8/20/2013 10:33	PAINT	1.44	maple		3 D	372	Wall	Metal	Intact	Blue	Negative	0	
21	8/20/2013 10:43	PAINT	3.12	spruce		1 D	Hall	Wall	Plaster	Intact	Beige	Negative	0.02	
22	8/20/2013 10:44	PAINT	2.89	spruce		1 D	103	Wall	Plaster	Intact	White	Negative	0	
23	8/20/2013 11:13	PAINT	3.13	willow		1 A	rear hall	Ceiling	Plaster	Poor	White	Negative	0	
24	8/20/2013 11:19	PAINT	1.44	willow		1 A	rear hall	Wall	Drywall	Poor	Gray	Negative	0	
25	8/20/2013 11:28	PAINT	2.4	willow		1 A	d29	Wall	Drywall	Intact	White	Negative	0	
26	8/20/2013 11:48	PAINT	1.2	sycamore		1 C	east stairs	Riser	Metal	Poor	Green	Negative	0.14	
27	8/20/2013 11:49	PAINT	1.2	sycamore		1 D	east stairs	Stringer	Metal	Poor	Green	Negative	0.07	
28	8/20/2013 11:49	PAINT	1.2	sycamore		1 D	east stairs	Railing	Metal	Poor	Green	Negative	0.2	
29	8/20/2013 11:49	PAINT	2.16	sycamore		1 D	east stairs	Wall	Plaster	Poor	White	Negative	0.02	
30	8/20/2013 11:52	PAINT	3.34	sycamore	Basement	D	storage	Wall	Plaster	Poor	White	Negative	0	
31	8/20/2013 11:53	PAINT	3.1	sycamore	Basement	B	storage	Wall	Plaster	Poor	White	Negative	0.01	
32	8/20/2013 11:56	PAINT	1.2	sycamore		1 B	179	Door	Wood	Poor	Brown	Negative	0.01	
33	8/20/2013 11:56	PAINT	1.19	sycamore		1 B	179	Door Frame	Wood	Poor	Black	Negative	0.3	
34	8/20/2013 12:07	PAINT	1.44	sycamore		2 B	182	Wall	Plaster	Poor	Beige	Negative	0	
35	8/20/2013 12:09	PAINT	3.12	sycamore		2 B	222	Wall	Plaster	Poor	Blue	Negative	0.09	

*Please note that positive readings marked "SHUTTER_CAL" result from procedures to ensure instrument accuracy, and do not indicate the presence of lead-based paint.

Table I: Lead-Based Paint Testing Results

Tinley Park Mental Health Center and Howe Developmental Center
 7400-7600 W. 183rd Street
 Tinley Park, Illinois

Reading No	Date and Time	Type	Duration	Building	Floor	Side	Room	Component	Substrate	Condition	Color	Results	Lead Concentration (Mg/Cm ²)
36	8/20/2013 13:35	PAINT	6.96	mech and eng	1	B	entry hall	Wall	Brick	Intact	White	Negative	0.03
37	8/20/2013 13:38	SHUTTER_CAL	42.23	Calibration									3.49
38	8/20/2013 13:41	PAINT	2.87	mech and eng	1	A	Main	Floor	Concrete	Poor	Green	Negative	0.01
39	8/20/2013 13:43	PAINT	0.48	mech and eng	1	A	garage bay	Pipe	Metal	Poor	Yellow	Positive	4.1
40	8/20/2013 13:48	PAINT	4.81	mech and eng	1	A	Office	Wall	Brick	Intact	Yellow	Negative	0.05
41	8/20/2013 13:54	PAINT	3.11	mech and eng	1	A	locker rm hall	Wall	Brick	Intact	White	Negative	0.01
42	8/20/2013 13:55	PAINT	1.92	mech and eng	1	A	locker rm hall	Wall	Brick	Intact	Gray	Negative	0
43	8/20/2013 14:12	PAINT	0.72	state garage 48	1	A	ext east ent	Railing	Metal	Poor	Yellow	Positive	10.1
44	8/20/2013 14:13	PAINT	0.48	state garage 48	1	A	ext east ent	garage door	Metal	Poor	Blue	Positive	3.2
45	8/20/2013 14:14	PAINT	1.2	state garage 48	1	A	ext east ent	garage door	Metal	Poor	Blue	Negative	0.6
46	8/20/2013 14:20	PAINT	1.2	state garage 48	1	A	east entry	Door	Metal	Poor	Green	Negative	0.29
47	8/20/2013 14:20	PAINT	0.48	state garage 48	1	A	east entry	Door Frame	Metal	Poor	Green	Positive	4.3
48	8/20/2013 14:25	PAINT	4.33	state garage 48	1	A	east entry	Column	Concrete	Poor	Yellow	Negative	0.9
49	8/20/2013 14:26	PAINT	4.56	state garage 48	1	A	Main	Column	Concrete	Poor	Yellow	Negative	0.6
50	8/20/2013 14:26	PAINT	2.4	state garage 48	1	A	Main	Column	Concrete	Poor	Gray	Negative	0.03
51	8/20/2013 14:28	PAINT	3.37	state garage 48	2	A	Stairway	Railing	Metal	Poor	Green	Negative	0.8
52	8/20/2013 14:29	PAINT	1.93	state garage 48	2	A	Stairway	Wall	Drywall	Poor	Green	Negative	0
53	8/20/2013 14:33	PAINT	1.21	water tower	1	A	Main	Wall	Metal	Poor	White	Negative	0.6
54	8/20/2013 14:35	PAINT	0.72	water plant	1	A	Main	ext wall	Metal	Poor	White	Positive	9.2
55	8/20/2013 14:36	PAINT	0.96	water plant	1	A	Main	ext wall	Metal	Poor	White	Positive	8
56	8/20/2013 14:36	PAINT	1.2	water plant	1	A	Main	Door	Metal	Intact	White	Positive	9.9
57	8/20/2013 14:38	PAINT	0.48	water plant	1	A	Main	Railing	Metal	Poor	Yellow	Positive	4.9
58	8/20/2013 14:40	PAINT	1.19	water plant	1	B	locker area	Door	Metal	Intact	Gray	Negative	0.6
59	8/20/2013 14:40	PAINT	1.2	water plant	1	B	locker area	Door Frame	Metal	Intact	Gray	Negative	0.5
60	8/20/2013 14:42	PAINT	4.56	water plant	1	D	powder storage	Door	Metal	Poor	Tan	Negative	0.8
61	8/20/2013 14:43	PAINT	0.48	water plant	1	A	powder storage	Door	Wood	Poor	Tan	Positive	5.4
62	8/20/2013 14:44	PAINT	1.2	water plant	1	A	powder storage	Column	Metal	Poor	Gray	Negative	0.3
63	8/20/2013 14:47	PAINT	1.21	water plant	Basement	A	pipe room	Pipe	Metal	Poor	Gray	Negative	0.4
64	8/20/2013 14:53	PAINT	0.96	gas house	1	A	Main	Door	Metal	Poor	Gray	Positive	10.1
65	8/20/2013 15:09	PAINT	1.21	cedar hall	1	A	prog admin 2	Door	Metal	Poor	Green	Negative	0.06
66	8/20/2013 15:09	PAINT	1.21	cedar hall	1	A	prog admin 2	Door Frame	Metal	Poor	Green	Negative	0.03
67	8/20/2013 15:12	PAINT	3.37	cedar hall	1	A	114a	Door Frame	Metal	Poor	orange	Positive	1.2
68	8/20/2013 15:12	PAINT	1.2	cedar hall	1	A	114a	Door	Metal	Poor	orange	Positive	1.5
69	8/20/2013 15:12	PAINT	1.2	cedar hall	1	A	114a	Door	Metal	Poor	Yellow	Negative	0.4
70	8/20/2013 15:12	PAINT	1.43	cedar hall	1	A	114a	Door Frame	Metal	Poor	Yellow	Negative	0.7
71	8/20/2013 15:14	PAINT	3.12	cedar hall	1	B	cell 16	Wall	Plaster	Poor	Green	Negative	0.16
72	8/20/2013 15:15	PAINT	1.21	cedar hall	1	A	cell 16	Door Frame	Metal	Poor	Green	Negative	0.04

*Please note that positive readings marked "SHUTTER_CAL" result from procedures to ensure instrument accuracy, and do not indicate the presence of lead-based paint.

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 Tinley Park, Illinois

Reading No	Date and Time	Type	Duration	Building	Floor	Side	Room	Component	Substrate	Condition	Color	Results	Lead Concentration (Mg/Cm ²)	
73	8/20/2013 15:15	PAINT	1.2	cedar hall	1	A	cell 15	Door Frame	Metal	Poor	Yellow	Negative	0.15	
74	8/20/2013 15:16	PAINT	2.4	cedar hall	1	B	cell 15	Wall	Plaster	Poor	Yellow	Negative	0.4	
75	8/20/2013 15:20	PAINT	3.11	cedar hall	1	C	4-110	Wall	Plaster	Poor	Yellow	Negative	0.03	
76	8/20/2013 15:20	PAINT	1.44	cedar hall	1	C	4-110	Wall	Plaster	Poor	Yellow	Negative	0.05	
77	8/20/2013 15:26	PAINT	1.92	cedar hall	1	C	gym	Wall	Brick	Poor	White	Negative	0.01	
78	8/20/2013 15:47	PAINT	1.44	cottage 4	1	C	Entry	Wall	Drywall	Intact	White	Negative	0	
79	8/20/2013 15:47	PAINT	1.21	cottage 4	1	D	Entry	Baseboard	Wood	Intact	White	Negative	0.01	
80	8/20/2013 15:54	PAINT	1.21	cottage 3	1	B	Entry	Door	Metal	Intact	White	Negative	0	
81	8/20/2013 15:54	PAINT	0.48	cottage 3	1	B	Entry	Door Frame	Wood	Intact	White	Positive	9.2	
82	8/20/2013 15:54	PAINT	1.43	cottage 3	1	C	Entry	Wall	Plaster	Intact	White	Negative	0	
83	8/20/2013 15:55	PAINT	1.2	cottage 3	1	C	Entry	Baseboard	Plaster	Intact	Tan	Negative	0.02	
84	8/20/2013 16:12	PAINT	20.29	Calibration									Positive	1
85	8/20/2013 16:13	PAINT	20.81										Positive	1.1
86	8/20/2013 16:14	PAINT	20.29										Positive	1
87	8/21/2013 9:42	SHUTTER_CAL	42.13											3.19
88	8/21/2013 9:44	PAINT	20.24										Positive	1.1
89	8/21/2013 9:45	PAINT	20.75										Positive	1
90	8/21/2013 9:47	PAINT	20.76										Positive	1
91	8/21/2013 9:53	PAINT	1.68	power plant	1	A	elec room	Wall	Metal	Intact	Gray	Negative	0.6	
92	8/21/2013 9:53	PAINT	0.72	power plant	1	A	elec room	Column	Metal	Intact	Gray	Positive	9.3	
93	8/21/2013 9:54	PAINT	0.96	power plant	1	A	elec room	Column	Metal	Intact	Gray	Positive	10.1	
94	8/21/2013 9:54	PAINT	2.62	power plant	1	A	elec room	Floor	Drywall	Poor	Gray	Negative	0.07	
95	8/21/2013 9:55	PAINT	1.2	power plant	1	C	elec room	Door	Metal	Intact	Gray	Negative	0.5	
96	8/21/2013 9:55	PAINT	1.19	power plant	1	C	elec room	Pipe	Metal	Intact	Gray	Negative	0.03	
97	8/21/2013 9:57	PAINT	1.45	power plant	1	C	boiler rm	boiler	Metal	Poor	Gray	Positive	1.7	
98	8/21/2013 9:57	PAINT	4.8	power plant	1	D	boiler rm	boiler	Metal	Poor	Gray	Positive	1.1	
99	8/21/2013 9:59	PAINT	0.96	power plant	1	C	boiler rm	Stringer	Metal	Poor	Gray	Positive	3.1	
100	8/21/2013 9:59	PAINT	0.72	power plant	1	C	boiler rm	Railing	Metal	Poor	Gray	Positive	3.9	
101	8/21/2013 10:01	PAINT	0.71	power plant	2	D	boiler rm	Railing	Metal	Poor	Gray	Positive	9.3	
102	8/21/2013 10:09	PAINT	3.61	power plant	1	C	outside	ext wall	Metal	Poor	White	Positive	1.4	
103	8/21/2013 10:09	PAINT	0.95	power plant	1	C	outside	ext wall	Metal	Poor	White	Positive	10.1	
104	8/21/2013 10:10	PAINT	0.96	power plant	1	C	outside	ext wall	Metal	Poor	White	Positive	10.1	
105	8/21/2013 10:11	PAINT	0.95	power plant	1	A	outside	ext wall	Metal	Poor	White	Positive	10.1	
106	8/21/2013 10:22	PAINT	3.81	res units 105	1	A	Living Room	Wall	Drywall	Intact	White	Negative	0	
107	8/21/2013 10:23	PAINT	1.67	res units 105	1	C	Living Room	Wall	Drywall	Intact	White	Negative	0	
108	8/21/2013 10:24	PAINT	2.16	res units 105	1	C	Bedroom	Wall	Drywall	Intact	White	Negative	0	
109	8/21/2013 10:28	PAINT	1.44	nh1	1	C	Hall	Wall	Drywall	Intact	White	Negative	0	

*Please note that positive readings marked "SHUTTER_CAL" result from procedures to ensure instrument accuracy, and do not indicate the presence of lead-based paint.

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 Tinley Park, Illinois

Reading No	Date and Time	Type	Duration	Building	Floor	Side	Room	Component	Substrate	Condition	Color	Results	Lead Concentration (Mg/Cm ²)
110	8/21/2013 10:28	PAINT	1.68	nh1	1	A	Hall	Wall	Drywall	Intact	White	Negative	0
111	8/21/2013 10:29	PAINT	1.67	nh1	1	A	hpc office	Wall	Drywall	Intact	White	Negative	0
112	8/21/2013 10:29	PAINT	1.67	nh1	1	C	hpc office	Wall	Drywall	Intact	White	Negative	0
113	8/21/2013 10:38	PAINT	3.11	res 202	1	C	Living Room	Wall	Drywall	Intact	White	Negative	0
114	8/21/2013 10:38	PAINT	2.15	res 202	1	A	Living Room	Wall	Drywall	Intact	White	Negative	0
115	8/21/2013 10:39	PAINT	2.39	res 202	1	A	Hall	Wall	Drywall	Intact	White	Negative	0
116	8/21/2013 10:40	PAINT	3.36	res 202	1	A	Bedroom	Wall	Drywall	Intact	White	Negative	0
117	8/21/2013 10:40	PAINT	1.2	res 202	1	C	Bedroom	Wall	Drywall	Intact	White	Negative	0
118	8/21/2013 10:41	PAINT	1.2	res 202	1	C	Bedroom	Window	Wood	Intact	White	Negative	0
119	8/21/2013 10:43	PAINT	2.86	res 202	1	C	mech rm	Wall	Drywall	Intact	White	Negative	0
120	8/21/2013 10:47	PAINT	2.88	res 302	1	C	Living Room	Wall	Drywall	Intact	White	Negative	0.01
121	8/21/2013 10:47	PAINT	1.2	res 302	1	B	Living Room	Wall	Drywall	Intact	White	Negative	0
122	8/21/2013 10:48	PAINT	1.92	res 302	1	B	Kitchen	Wall	Drywall	Intact	White	Negative	0
123	8/21/2013 10:49	PAINT	2.15	res 302	1	B	Hall	Wall	Drywall	Intact	White	Negative	0
124	8/21/2013 10:50	PAINT	1.2	res 302	1	B	Hall	Ceiling	Drywall	Intact	White	Negative	0.01
125	8/21/2013 10:52	PAINT	1.67	nh	1	B	Hall	Wall	Drywall	Intact	White	Negative	0
126	8/21/2013 11:02	PAINT	1.91	rec center	1	A	lobby	Wall	Drywall	Intact	White	Negative	0
127	8/21/2013 11:02	PAINT	1.19	rec center	1	B	lobby	Wall	Drywall	Intact	White	Negative	0
128	8/21/2013 11:36	PAINT	3.1	oak hall	1	A	lobby	Wall	Plaster	Intact	White	Negative	0.03
129	8/21/2013 11:36	PAINT	1.67	oak hall	1	C	lobby	Wall	Drywall	Intact	White	Negative	0
130	8/21/2013 11:37	PAINT	2.39	oak hall	1	C	Hall outside 103	Wall	Drywall	Intact	White	Negative	0
131	8/21/2013 11:40	PAINT	1.91	oak hall	1	C	lab 113	Wall	Plaster	Intact	White	Negative	0.06
132	8/21/2013 11:44	PAINT	4.55	oak hall	1	C	xerox rm	Ceiling	Plaster	Poor	White	Negative	0
133	8/21/2013 11:55	PAINT	3.36	oak hall	Basement	C	Kitchen	Wall	Plaster	Poor	White	Negative	0.01
134	8/21/2013 12:04	PAINT	3.58	oak hall	2	C	Hall	Wall	Plaster	Intact	White	Negative	0.01
135	8/21/2013 14:25	PAINT	4.31	water plant	1	A	tank ext	Wall	Concrete	Intact	Blue	Negative	0
136	8/21/2013 14:26	PAINT	20.05	Calibration								Positive	1.1
137	8/21/2013 14:27	PAINT	20.88									Positive	1
138	8/21/2013 14:28	PAINT	20.12									Positive	1

*Please note that positive readings marked "SHUTTER_CAL" result from procedures to ensure instrument accuracy, and do not indicate the presence of lead-based paint.

Appendix D

Table II: Lead-Based Paint Testing Results (Positive)

Table II: Lead-Based Paint Testing Results - Positive Readings Only

Tinley Park Mental Health Center and Howe Developmental Center

7400-7600 W. 183rd Street

Tinley Park, Illinois

Reading No	Date and Time	Type	Duration	Building	Floor	Side	Room	Component	Substrate	Condition	Color	Results	Lead Concentration (Mg/Cm ²)
39	8/20/2013 13:43	PAINT	0.48	Mech. And Eng.	1	A	Garage Bay	Pipe	Metal	Poor	Yellow	Positive	4.1
43	8/20/2013 14:12	PAINT	0.72	State Garage 48	1	A	Ext. east ent.	Railing	Metal	Poor	Yellow	Positive	10.1
44	8/20/2013 14:13	PAINT	0.48	State Garage 48	1	A	Ext. east ent.	Garage door	Metal	Poor	Blue	Positive	3.2
47	8/20/2013 14:20	PAINT	0.48	State Garage 48	1	A	East entry	Door frame	Metal	Poor	Green	Positive	4.3
54	8/20/2013 14:35	PAINT	0.72	Water Plant	1	A	Main	Ext. wall	Metal	Poor	White	Positive	9.2
55	8/20/2013 14:36	PAINT	0.96	Water Plant	1	A	Main	Ext. wall	Metal	Poor	White	Positive	8
56	8/20/2013 14:36	PAINT	1.2	Water Plant	1	A	Main	Door	Metal	Intact	White	Positive	9.9
57	8/20/2013 14:38	PAINT	0.48	Water Plant	1	A	Main	Railing	Metal	Poor	Yellow	Positive	4.9
61	8/20/2013 14:43	PAINT	0.48	Water Plant	1	A	Powder stor	Door	Wood	Poor	Tan	Positive	5.4
64	8/20/2013 14:53	PAINT	0.96	Gas House	1	A	Main	Door	Metal	Poor	Gray	Positive	10.1
67	8/20/2013 15:12	PAINT	3.37	Cedar Hall	1	A	114a	Door frame	Metal	Poor	orange	Positive	1.2
68	8/20/2013 15:12	PAINT	1.2	Cedar Gall	1	A	114a	Door	Metal	Poor	orange	Positive	1.5
81	8/20/2013 15:54	PAINT	0.48	Cottage 3	1	B	Entry	Door frame	Wood	Intact	White	Positive	9.2
92	8/21/2013 9:53	PAINT	0.72	Power Plant	1	A	Elec. Rm.	Column	Metal	Intact	Gray	Positive	9.3
93	8/21/2013 9:54	PAINT	0.96	Power Plant	1	A	Elec. Rm.	Column	Metal	Intact	Gray	Positive	10.1
97	8/21/2013 9:57	PAINT	1.45	Power Plant	1	C	Boiler Rm.	Boiler	Metal	Poor	Gray	Positive	1.7
98	8/21/2013 9:57	PAINT	4.8	Power Plant	1	D	Boiler Rm.	Boiler	Metal	Poor	Gray	Positive	1.1
99	8/21/2013 9:59	PAINT	0.96	Power Plant	1	C	Boiler Rm.	Stringer	Metal	Poor	Gray	Positive	3.1
100	8/21/2013 9:59	PAINT	0.72	Power Plant	1	C	Boiler Rm.	Railing	Metal	Poor	Gray	Positive	3.9
101	8/21/2013 10:01	PAINT	0.71	Power Plant	2	D	Boiler Rm.	Railing	Metal	Poor	Gray	Positive	9.3
102	8/21/2013 10:09	PAINT	3.61	Power Plant	1	C	Outside	Ext. wall	Metal	Poor	White	Positive	1.4
103	8/21/2013 10:09	PAINT	0.95	Power Plant	1	C	Outside	Ext. wall	Metal	Poor	White	Positive	10.1
104	8/21/2013 10:10	PAINT	0.96	Power Plant	1	C	Outside	Ext. wall	Metal	Poor	White	Positive	10.1
105	8/21/2013 10:11	PAINT	0.95	Power Plant	1	A	Outside	Ext. wall	Metal	Poor	White	Positive	10.1



E n v i r o n m e n t a l C o n s u l t i n g G r o u p , I n c .

REPORT

NESHAP Pre-Demolition Asbestos Inspection
Tinley Park Mental Health Center and Howe Developmental Center
7400-7600 W. 183rd Street
Tinley Park, Illinois 60484

Prepared for:

Jones Lang LaSalle
200 E. Randolph Street
Chicago, Illinois 60601

Prepared by:

Environmental Consulting Group, Inc.
411 S. Wells Street, Suite 700
Chicago, Illinois 60607
(312) 633-3900

ECG Project Number: A13167-479
Date: September 25, 2013



E n v i r o n m e n t a l C o n s u l t i n g G r o u p , I n c .

September 25, 2013

Ms. Liz Lofton
Vice President
Jones Lang LaSalle - Public Institutions
200 E. Randolph Street
Chicago, Illinois 60601

Re: **NESHAP Pre-Demolition Asbestos Inspection Report**
 Tinley Park Mental Health Center and Howe Developmental Center
 7400-7600 W. 183rd Street
 Tinley Park, Illinois

Dear Ms. Lofton:

Environmental Consulting Group, Inc. (ECG) completed NESHAP pre-demolition asbestos inspection for the vacant Tinley Park Mental Health Center and Howe Developmental Center located at 7400-7600 W. 183rd Street in Tinley Park, Illinois. This report provides a summary of the field work, the analytical results, and a discussion regarding the findings of our work.

If you have any questions or need additional information, please contact our office.

Sincerely,

ENVIRONMENTAL CONSULTING GROUP, INC.

Mr. Jeffery A. Ruhl
Senior Project Manager

Mr. Thad Ryniak
Project Manager

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- Appendix B – Asbestos Testing Results Summary Table
- Appendix C – Analytical Results and Lab Certifications
- Appendix D – CDB Asbestos Management Plan Reports

1.0 EXECUTIVE SUMMARY

From August 19 to August 26, 2013, ECG completed a NESHAP pre-demolition asbestos inspection at the vacant Tinley Park Mental Health Center and Howe Developmental Center located at 7400-7600 W. 183rd Street in Tinley Park, Illinois. During the survey, a total of 177 bulk samples of suspect asbestos-containing materials (ACMs) were collected from the buildings at the subject property. Selected buildings and structures on the property were inspected and the inspection revealed various suspect asbestos-containing materials.

The Tinley Park Mental Health Center and Howe Developmental Center is a State of Illinois Department of Human Services (DHS)-owned and -operated residential mental health facility. The Capital Development Board (CDB) is a construction management agency for Illinois and is responsible for the identification and removal of hazardous materials from state-owned buildings. Based on this custodial relationship, CDB completed asbestos inspections and sampling and produced Asbestos Management Plan reports for buildings on the property which identified asbestos-containing materials present in the buildings. These reports (currently onsite at the facility), identify confirmed and assumed asbestos-containing materials currently installed in buildings on the property. Appendix D CDB Asbestos Management Plan Information contains copies of the Summary of Findings per building that identify currently installed asbestos-containing materials and an estimated cost to remediate these materials. The current inspection and sampling completed during this investigation is considered supplemental to the materials identified by CDB.

The Capital Development Board commissioned comprehensive asbestos inspections of buildings present on the site in 1994. Fox & Fox Engineers & Architects (Fox & Fox), 330 South Wells Street, Chicago, Illinois completed the inspections and prepared CDB mandated Asbestos Management Plan Reports for each of the buildings inspected (Report summaries are contained in Appendix D). These reports were reviewed prior to the development of the sampling strategy for this current supplemental inspection. The CDB Management Plan Reports identify confirmed and assumed asbestos-containing materials present in the buildings including estimated quantities of the identified materials and estimated asbestos abatement costs. It should be noted that the Management Plan Reports primarily focused on interior building materials. Based on the review of these reports, ECG completed supplemental asbestos inspections and material testing intended to confirm the existence of materials previously identified and to

NESHAP Pre-Demolition Asbestos Inspection Report
Tinley Park Mental Health Center and Howe Developmental Center
7400-7600 W. 183rd Street, Tinley Park, Illinois

Environmental Consulting Group, Inc.

(312) 663-3900

sample exterior building materials not included in the Fox & Fox reports. The original Fox & Fox Management Plan Reports are currently stored in the Engineering Building, second floor conference room. This report and the associated appendices is a thorough and reasonable effort to summarize the asbestos materials present on the subject property, but additional asbestos material information is contained in the original Fox & Fox reports stored onsite.

The one hundred (100) structures on the property were categorized into nine (9) functional groupings. Positive homogeneous building material samples found in each grouping are assumed to be present throughout each building in that grouping. The following list summarizes the 9 groupings of buildings:

- Howe Residences
- Howe Recreation Center
- Howe Neighborhood Houses and Office Buildings
- Halls: Cedar, Hickory, Maple, Mimosa, Oak, Pine, Spruce, Sycamore, and Willow
- Administration Buildings
- Power Plant and Water Plant
- Mechanical/Engineering Building and Transportation/Maintenance Garage
- Cottages
- Tunnel System

The following list summarizes the visible, accessible materials sampled and confirmed on this inspection to contain asbestos at the subject buildings:

- 1) 12" x 12" beige with brown floor tile and associated mastic – Maple Hall**
- 2) 12" x 12" white floor tile and associated mastic – Maple Hall**
- 3) 9" x 9" light brown floor tile and associated mastic – Maple Hall**
- 4) White linoleum flooring – Spruce Hall**
- 5) Exterior window caulk – Sycamore Hall**
- 6) Exterior window glazing – Sycamore Hall**
- 7) 9" x 9" light brown floor tile and associated mastic – Sycamore Hall**
- 8) 12" x 12" white floor tile – Sycamore Hall**
- 9) Interior window glazing – Sycamore Hall**

- 10) 9" x 9" white floor tile and associated mastic – Mechanical/Engineering Building**
- 11) Exterior wall caulk – Transportation/Garage Building**
- 12) 9" x 9" beige floor tile and associated mastic – Transportation/Garage Building**
- 13) Interior window glazing – Water Plant**
- 14) Boiler door insulation – Water Plant**
- 15) White linoleum flooring – Cedar Hall**
- 16) 9" x 9" white floor tile and associated mastic – Cedar Hall**
- 17) 12" x 12" white floor tile – Cottage #4**
- 18) 12" x 12" white floor tile and associated mastic – Residence Units**
- 19) 12" x 12" white floor tile and associated mastic – Neighborhood Houses**
- 20) 12" x 12" white floor tile – Recreation Center**
- 21) Mastic associated with 12" x 12" white floor tile – Pine Hall**
- 22) Rooftop ductwork insulation – Recreation Center**
- 23) Cooling tower paneling – Administration Building**
- 24) Exterior wall paneling – Willow Hall**

These materials are in addition to the materials identified in the building specific Fox & Fox Asbestos Management Plan reports contained in Appendix D. These reports identify the following asbestos-containing materials are present in various locations in buildings and on the property.

- Asbestos containing thermal system insulation (TSI) in various forms and applications.
- Asbestos containing surfacing materials in various forms and applications.
- Asbestos containing floor tiles and associated mastic in various colors, sizes and applications.
- Miscellaneous asbestos-containing materials in various forms and applications.

Specific information on these materials and their locations are contained in the original Fox & Fox reports stored onsite.

2.0 SCOPE-OF-WORK

The scope-of-work for this project included testing various suspect asbestos-containing materials. Prior to collecting the samples, ECG conducted a walk-through inspection of each building. The inspection was conducted from August 19 to August 26, 2013, by Mr. Thad Ryniak, an Illinois-licensed Asbestos Building Inspector (100-09551). ECG inspector credentials are included in Attachment A.

3.0 GENERAL ASBESTOS INFORMATION

Asbestos-containing materials (ACMs) are usually associated with building materials as binder, fire retardants, and insulating agents. Other materials such as suspended ceiling tiles and floor tiles have also been known to contain asbestos. Exposure to asbestos fibers has been shown to cause a variety of health problems including asbestosis and lung cancer. ACMs in poor condition can readily yield fibers that can be inhaled, escalating exposure risks. This is true for most friable forms of ACMs.

The 1973 National Emission Standards for Hazardous Air Pollutants (NESHAPS) partially banned the use of spray-applied ACM in new buildings. These regulations were expanded in 1975 and 1978 to ban the use of most types of insulating ACM in new buildings. As a result of these laws, most buildings constructed after 1978 contain fewer ACMs.

4.0 FIELD ACTIVITIES

4.1 Asbestos Sampling

The procedure for sampling suspect asbestos-containing materials was conducted in general accordance with United States Environmental Protection Agency guidelines "*Asbestos in Buildings: Simplified Sampling Scheme for Friable Surfacing Materials*," dated October, 1985. These guidelines are designed to minimize damage to ACMs and reduce fiber release during sample collection.

Prior to collecting samples, ECG categorized suspect ACMs into homogeneous areas. “Homogeneous areas” are areas that are uniform in color, texture, construction/application date, and general appearance.

4.2 Limitations

ECG did not conduct sampling of building materials in inaccessible areas. Additional testing may be required if building materials not identified in this report are discovered and will be impacted.

5.0 LABORATORY ANALYSIS

5.1 Asbestos Sample Analysis

Samples were sent for analysis to EMSL Analytical, Inc. (EMSL), located in Chicago, Illinois. EMSL is recognized under the National Voluntary Laboratory Accreditation Program (NVLAP) as Laboratory #200399-0. All samples were initially analyzed by Polarized Light Microscopy (PLM) methods with dispersion staining as described by the interim method of the determination of asbestos in the bulk insulation, Federal Register Volume 47, No 103, May 27, 1982. This is a standard method of analysis in optical mineralogy and the current specified method for the determination of asbestos in bulk samples in Appendix A, Subpart F, 40 CFR Part 763, Section 1.

During analysis, a suspect asbestos-containing material is immersed in a solution of known refractive index and subjected to illumination by polarized light. The characteristic color displays which result enables mineral identification. PLM is an Environmental Protection Agency (EPA)-recognized method for determining asbestos content in bulk samples.

A total of 177 bulk samples of suspect ACMs were submitted for PLM analysis. The Analytical results showed that forty nine (49) of the samples meet the above-referenced EPA definition of an asbestos-containing material (ACM). The forty nine (49) positive samples were associated with twelve (12) different types of building materials.

Table I, included in Appendix B, lists the materials that were sampled during this inspection, and summarizes the analytical results.

Laboratory analytical results and certifications are included in Appendix C.

6.0 REGULATORY DISCUSSION

EPA's National Emission Standards for Hazardous Air Pollutants (NESHAP); Asbestos NESHAP Revision; Final Rule (40 CFR Part 61) defines an asbestos-containing material as any material containing greater than one (1) percent asbestos analyzed by Polarized Light Microscopy (PLM).

The standard requires that the part of a facility that may be disturbed by renovation or demolition operations be thoroughly inspected prior to renovation or demolition, in order to determine if Regulated Asbestos-Containing Materials (RACM) are present. This inspection should determine if the standard for renovation and demolition (Section 61.145) applies. If the standard is applicable, then the owner or operator is required to notify the EPA prior to renovation and demolition activities and follow specific procedures for emission control and waste disposal.

Under a strict NESHAP interpretation, when completing a demolition project, Category I Non-Friable ACM (Cat I) can generally be disposed of with demolition construction wastes. There may be other state and local restrictions prohibiting the inclusion of Cat I materials in demolition wastes and clarifying these issues prior to beginning the demolition is strongly recommended. If Cat I materials are being considered for inclusion into demolition wastes, notification to the specific disposal landfill should be completed. Friable RACM and Category II non friable materials must be removed from the facility prior to renovation or demolition.

Prior to conducting any renovation/demolition activities, which would potentially result in a release of asbestos fibers into the environment, Regulated Asbestos-Containing Materials must be removed under controlled conditions in accordance with the asbestos NESHAP. RACM means (a) friable asbestos material, (b) Category I non-friable ACM that has become friable, (c) Category I non-friable ACM that will be or has been subjected to sanding, grinding, cutting or abrading, or (d) Category II non-friable ACM that has a high probability of becoming or has

become crumbled, pulverized, or reduced to powder by the forces expected to act on the material in the course of demolition or renovation operations regulated by this subpart.

NESHAP has varying requirements depending on whether the planned activity is a demolition or renovation project. This decision primarily would impact the method of removal and the final disposition of the ACM waste. NESHAP may allow the disposal of non-friable ACM materials to be disposed of with general construction/demolition debris as long as the demolition method does not render the materials friable. Typically, this is negotiated with the various state, local and EPA agencies. Notification to privately-owned landfills may still be a requirement prior to disposal of ACM wastes.

7.0 CONCLUSIONS

The following list summarizes the visible, accessible materials confirmed on this inspection to contain asbestos at the subject buildings:

- 1) 12" x 12" beige with brown floor tile and associated mastic – Maple Hall**
- 2) 12" x 12" white floor tile and associated mastic – Maple Hall**
- 3) 9" x 9" light brown floor tile and associated mastic – Maple Hall**
- 4) White linoleum flooring – Spruce Hall**
- 5) Exterior window caulk – Sycamore Hall**
- 6) Exterior window glazing – Sycamore Hall**
- 7) 9" x 9" light brown floor tile and associated mastic – Sycamore Hall**
- 8) 12" x 12" white floor tile – Sycamore Hall**
- 9) Interior window glazing – Sycamore Hall**
- 10) 9" x 9" white floor tile and associated mastic – Mechanical/Engineering Building**
- 11) Exterior wall caulk – Transportation/Garage Building**
- 12) 9" x 9" beige floor tile and associated mastic – Transportation/Garage Building**
- 13) Interior window glazing – Water Plant**
- 14) Boiler door insulation – Water Plant**
- 15) White linoleum flooring – Cedar Hall**
- 16) 9" x 9" white floor tile and associated mastic – Cedar Hall**

- 17) 12" x 12" white floor tile – Cottage #4**
- 18) 12" x 12" white floor tile and associated mastic – Residence Units**
- 19) 12" x 12" white floor tile and associated mastic – Neighborhood Houses**
- 20) 12" x 12" white floor tile – Recreation Center**
- 21) Mastic associated with 12" x 12" white floor tile – Pine Hall**
- 22) Rooftop ductwork insulation – Recreation Center**
- 23) Cooling tower paneling – Administration Building**
- 24) Exterior wall paneling – Willow Hall**

These materials are in addition to the materials identified in building specific Asbestos Management Plan reports contained in Appendix D.

8.0 QUALIFICATIONS

ECG believes this study generally accords with the technical standards of practice for asbestos surveys at the time the study was conducted. The standard of care exercised for this study accords with generally accepted practices, and a reasonable effort was made to ensure that the information presented in this report is materially complete and accurate.

The conclusions presented in this report are professional opinions based solely upon visual observations of the site, analytical data, and other research as described in this report. They are intended for the sole use of our Client. The scope of services performed in execution of this investigation may not be appropriate to satisfy the needs of other users. Any use or reuse of this document, of the findings, conclusions, or recommendations presented herein is at the sole risk of said user.

Therefore, we cannot be responsible for independent conclusions, opinions, or recommendations of others based on our study. If additional information from the site is generated, it should be provided to us so that we may evaluate its impact on our conclusions.

Appendix A

ECG Certifications



**ASBESTOS
PROFESSIONAL
LICENSE**

ID NUMBER **ISSUED** **EXPIRES**
100 - 09551 **1/23/2013** **05/15/2014**

THAD J RYNIAK
400 VILLAGE CIRCLE #302
WILLOW SPRINGS, IL 60450



Environmental Health

ENDORSEMENTS

TC EXPIRES

INSPECTOR

3/9/2013

PROJECT MANAGER
AIR SAMPLING PROFESSIONAL

10/10/2013

Alteration of this license shall result in legal action
This license issued under authority of the State of Illinois
Department of Public Health
This license is valid only when accompanied by a valid
training course certificate.



Occupational Training & Supply, Inc.

7233 Adams Street ♦ Willowbrook, IL 60527 ♦ (630) 655-3900

Asbestos Building Inspector Refresher

Occupational Training and Supply, Inc. certifies that

Thad Ryniak

has successfully completed the 4 hour Asbestos Building Inspector Refresher Course and has passed the competency exam with a minimum score of 70%. The course is accredited by the Illinois Department of Public Health and Indiana Department of Environmental Management for purposes of accreditation in accordance with EPA 10 CFR 763 Asbestos Hazard Emergency Response Act (AHERA) and TSCA Title II.

Certificate: BIR1303120955

Exam Date: 3/12/2013

Course Date: 3/12/2013

Expiration Date: 3/12/2014



Kathy DeSalvo, Director

2013

Appendix B

Asbestos Testing Results Summary Table

Asbestos Results Summary Table

Tinley Park Mental Health Center and Howe Developmental Center
7400-7600 W. 183rd Street
Tinley Park, Illinois

SAMPLE ID	MATERIAL SAMPLED	LOCATION	% ASBESTOS
TR0820-01	12" x 12" white floor tile	Maple Hall – Room 132	None detected
TR0820-02	12" x 12" beige with green and red floor tile	Maple Hall – Room 255	None detected
TR0820-03	12" x 12" beige with brown floor tile	Maple Hall – Room 233	2% Chrysotile
TR0820-04	12" x 12" white floor tile	Maple Hall – Room 441	4% Chrysotile
TR0820-05	9" x 9" light brown floor tile	Maple Hall – 1 st floor corridor	5% Chrysotile
TR0820-06	Brown mastic associated with 12" x 12" white floor tile	Maple Hall – Room 132	2% Chrysotile
TR0820-07	Yellow mastic associated with 12" x 12" beige with green and red floor tile	Maple Hall – Room 255	None detected
TR0820-08	Brown mastic associated with 12" x 12" beige with brown floor tile	Maple Hall – Room 233	3% Chrysotile
TR0820-09	Brown mastic associated with 12" x 12" white floor tile	Maple Hall – Room 441	2% Chrysotile
TR0820-10	Black mastic associated with 9" x 9" light brown floor tile	Maple Hall – 1 st floor corridor	5% Chrysotile
TR0820-11	Black exterior foundation caulk	Spruce Hall – West side	None detected
TR0820-12	Black exterior foundation caulk	Spruce Hall – South side	None detected
TR0820-13	Black exterior foundation caulk	Spruce Hall – North side	None detected
TR0820-14	White linoleum flooring	Spruce Hall – Room 103	None detected
TR0820-15	White linoleum flooring	Spruce Hall – Room 203C	20% Chrysotile
TR0820-16	White linoleum flooring	Spruce Hall – Room 323	20% Chrysotile
TR0820-17	12" x 12" white floor tile	Spruce Hall – Hallway near 105B	None detected
TR0820-18	Black mastic associated with 12" x 12" white floor tile	Spruce Hall – Hallway near 105B	None detected
TR0820-19	Drywall wall	Willow Hall – Wing 6	None detected
TR0820-20	Drywall wall	Willow Hall – Wing 6	None detected
TR0820-21	Drywall ceiling	Willow Hall – Wing 5	None detected
TR0820-22	Drywall compound	Willow Hall – Wing 7	None detected
TR0820-23	Drywall compound	Willow Hall – Wing 6	None detected
TR0820-24	Drywall compound	Willow Hall – Wing 6	None detected
TR0820-25	Exterior window caulk	Sycamore Hall – North side	3% Chrysotile
TR0820-26	Exterior window caulk	Sycamore Hall – West side	3% Chrysotile

Asbestos Results Summary Table

Tinley Park Mental Health Center and Howe Developmental Center
7400-7600 W. 183rd Street
Tinley Park, Illinois

SAMPLE ID	MATERIAL SAMPLED	LOCATION	% ASBESTOS
TR0820-27	Exterior window caulk	Sycamore Hall – East side	3% Chrysotile
TR0820-28	Exterior window glazing	Sycamore Hall – North side	5% Chrysotile
TR0820-29	Exterior window glazing	Sycamore Hall – West side	5% Chrysotile
TR0820-30	Exterior window glazing	Sycamore Hall – East side	2% Chrysotile
TR0820-31	9” x 9” brown floor tile	Sycamore Hall – Basement hall	4% Chrysotile
TR0820-32	Black mastic associated with 9” x 9” brown floor tile	Sycamore Hall – Basement hall	5% Chrysotile
TR0820-33	12” x 12” white floor tile	Sycamore Hall – 1 st floor	4% Chrysotile
TR0820-34	Yellow mastic associated with 12” x 12” white floor tile	Sycamore Hall – 1 st floor	None detected
TR0820-35	Roof field	Administration Building – East side	None detected
TR0820-36	Roof field	Administration Building – West side	None detected
TR0820-37	Roof flashing	Administration Building – South side	None detected
TR0820-38	Brown glue pad associated with 1’ x 1’ glue on ceiling tile	Sycamore Hall – 1 st floor	None detected
TR0820-39	Brown glue pad associated with 1’ x 1’ glue on ceiling tile	Sycamore Hall – 1 st floor	None detected
TR0820-40	Brown glue pad associated with 1’ x 1’ glue on ceiling tile	Sycamore Hall – Basement	None detected
TR0820-41	Interior window glazing	Sycamore Hall – 1 st floor	3% Chrysotile
TR0820-42	Interior window glazing	Sycamore Hall – 2 nd floor	3% Chrysotile
TR0820-43	Interior window glazing	Sycamore Hall – 2 nd floor	2% Chrysotile
TR0820-44	9” x 9” white floor tile	Mechanical/Engineering – Men’s locker room	7% Chrysotile
TR0820-45	Black mastic associated with 9” x 9” white floor tile	Mechanical/Engineering – Men’s locker room	3% Chrysotile
TR0820-46	Exterior window glazing	Transportation Building – South side	<1% Chrysotile
TR0820-47	Exterior window glazing	Transportation Building – East side	<1% Chrysotile
TR0820-48	Exterior window glazing	Transportation Building – South side	<1% Chrysotile
TR0820-49	Exterior wall caulk	Transportation Building – South side	5% Chrysotile
TR0820-50	Exterior wall caulk	Transportation Building – South side	5% Chrysotile
TR0820-51	Exterior wall caulk	Transportation Building	10% Chrysotile
TR0820-52	Black exterior foundation caulk	Transportation Building – East side	None detected

Asbestos Results Summary Table

Tinley Park Mental Health Center and Howe Developmental Center
7400-7600 W. 183rd Street
Tinley Park, Illinois

SAMPLE ID	MATERIAL SAMPLED	LOCATION	% ASBESTOS
TR0820-53	Black exterior foundation caulk	Transportation Building – East side	None detected
TR0820-54	Black exterior foundation caulk	Transportation Building – West side	None detected
TR0820-55	9” x 9” beige floor tile	Transportation Building	4% Chrysotile
TR0820-56	Black mastic associated with 9” x 9” beige floor tile	Transportation Building	5% Chrysotile
TR0820-57	Exterior window glazing	Water Plant – East side	None detected
TR0820-58	Exterior window glazing	Water Plant – West side	None detected
TR0820-59	Exterior window glazing	Water Plant – West side	None detected
TR0820-60	Laboratory table top	Water Plant – 1 st floor	None detected
TR0820-61	Laboratory table top	Water Plant – 1 st floor	None detected
TR0820-62	Laboratory table top	Water Plant – 1 st floor	None detected
TR0820-63	Interior window glazing	Water Plant – West side	2% Chrysotile
TR0820-64	Interior window glazing	Water Plant – East side	2% Chrysotile
TR0820-65	Interior window glazing	Water Plant – East side	2% Chrysotile
TR0820-66	Boiler door insulation	Water Plant – Basement	60% Chrysotile
TR0820-67	Boiler door insulation	Water Plant – Basement	60% Chrysotile
TR0820-68	Boiler door insulation	Water Plant – Basement	60% Chrysotile
TR0820-69	White linoleum flooring	Cedar Hall – Office	20% Chrysotile
TR0820-70	White linoleum flooring	Cedar Hall – Holding cell	20% Chrysotile
TR0820-71	White linoleum flooring	Cedar Hall – Near room 4-112	20% Chrysotile
TR0820-72	Chalkboard wall mastic	Cedar Hall – Paint room	None detected
TR0820-73	Chalkboard wall mastic	Cedar Hall – Shop room	None detected
TR0820-74	Chalkboard wall mastic	Cedar Hall – Shop room	None detected
TR0820-75	9” x 9” white floor tile	Cedar Hall – Shop room	3% Chrysotile
TR0820-76	Black mastic associated with 9” x 9” white floor tile	Cedar Hall – Shop room	5% Chrysotile
TR0820-77	Exterior window caulk	Cedar Hall – South side	None detected
TR0820-78	Exterior window caulk	Cedar Hall – East side	None detected
TR0820-79	Exterior window caulk	Cedar Hall – West side	None detected

Asbestos Results Summary Table

Tinley Park Mental Health Center and Howe Developmental Center
7400-7600 W. 183rd Street
Tinley Park, Illinois

SAMPLE ID	MATERIAL SAMPLED	LOCATION	% ASBESTOS
TR0820-80	Exterior window glazing	Cedar Hall – South side	None detected
TR0820-81	Exterior window glazing	Cedar Hall – East side	None detected
TR0820-82	Exterior window glazing	Cedar Hall – West side	None detected
TR0820-83	Roof shingle	Cottage #4	None detected
TR0820-84	Roof shingle	Cottage #1	None detected
TR0820-85	Roof shingle	Cottage #7	None detected
TR0820-86	12” x 12” white floor tile	Cottage #4	3% Chrysotile
TR0820-87	Yellow mastic associated with 12” x 12” white floor tile	Cottage #4	None detected
TR0820-88	12” x 12” white floor tile	Cottage #5	None detected
TR0820-89	Black mastic associated with 12” x 12” white floor tile	Cottage #5	None detected
TR0820-90	12” x 12” white floor tile	Cottage #7	None detected
TR0820-91	Black mastic associated with 12” x 12” white floor tile	Cottage #7	None detected
TR0821-92	Black sink undercoating	Powerhouse – Transformer room	None detected
TR0821-93	Interior window glazing	Powerhouse – 2 nd floor	<1% Chrysotile
TR0821-94	Exterior window glazing	Powerhouse – South side	None detected
TR0821-95	Drywall wall	Residence Unit 105	None detected
TR0821-96	Drywall compound	Residence Unit 105	None detected
TR0821-97	12” x 12” white floor tile	Neighborhood House #1	4% Chrysotile
TR0821-98	Black mastic associated with 12” x 12” white floor tile	Neighborhood House #1	8% Chrysotile
TR0821-99	Exterior window caulk	Neighborhood House #2	4% Chrysotile
TR0821-100	12” x 12” white floor tile	Residence Unit 202	3% Chrysotile
TR0821-101	Black mastic associated with 12” x 12” white floor tile	Residence Unit 202	5% Chrysotile
TR0821-102	Drywall wall	Residence Unit 202	None detected
TR0821-103	Drywall compound	Residence Unit 202	None detected
TR0821-104	Drywall compound	Residence Unit 302	None detected
TR0821-105	Drywall compound	Neighborhood House #3	None detected

Asbestos Results Summary Table

Tinley Park Mental Health Center and Howe Developmental Center
7400-7600 W. 183rd Street
Tinley Park, Illinois

SAMPLE ID	MATERIAL SAMPLED	LOCATION	% ASBESTOS
TR0821-106	12" x 12" white floor tile	Recreation Center	3% Chrysotile
TR0821-107	Black mastic associated with 12" x 12" white floor tile	Recreation Center	3% Chrysotile
TR0821-108	Gray roof caulk	Recreation Center	None detected
TR0821-109	Brown glue pad associated with 1' x 1' glue on ceiling tile	Oak Hall – Entrance	None detected
TR0821-110	Brown glue pad associated with 1' x 1' glue on ceiling tile	Oak Hall – Xerox room	None detected
TR0821-111	Brown glue pad associated with 1' x 1' glue on ceiling tile	Oak Hall – third floor	None detected
TR0821-112	Laboratory table top	Oak Hall – Laboratory	None detected
TR0821-113	Yellow carpet mastic	Oak Hall – Basement	None detected
TR0821-114	Yellow carpet mastic	Oak Hall – Basement	None detected
TR0821-115	Yellow carpet mastic	Oak Hall – Basement	None detected
TR0821-116	12" x 12" white floor tile	Oak Hall – Service Vestibule	None detected
TR0821-117	Yellow mastic associated with 12" x 12" white floor tile	Oak Hall – Service Vestibule	None detected
TR0821-118	Roof field	Mechanical Building – North side	None detected
TR0821-119	Roof field	Mechanical Building – South side	None detected
TR0821-120	Roof field	Mechanical Building – East side	None detected
TR0821-121	Roof flashing	Mechanical Building – North side	None detected
TR0821-122	Roof flashing	Mechanical Building – South side	None detected
TR0821-123	Roof flashing	Mechanical Building – East side	None detected
TR0821-124	Roof field	Garage/Transportation – Low roof	None detected
TR0821-125	Roof field	Garage/Transportation – Mid roof	None detected
TR0821-126	Roof field	Garage/Transportation – High roof	None detected
TR0821-127	Roof flashing	Garage/Transportation – Low roof	None detected
TR0820-128	Roof flashing	Garage/Transportation – Mid roof	None detected
TR0821-129	Roof flashing	Garage/Transportation – High roof	None detected
TR0821-130	Roof field	Power Plant – North side	None detected
TR0821-131	Roof field	Power Plant – South side	None detected

Asbestos Results Summary Table

Tinley Park Mental Health Center and Howe Developmental Center
7400-7600 W. 183rd Street
Tinley Park, Illinois

SAMPLE ID	MATERIAL SAMPLED	LOCATION	% ASBESTOS
TR0821-132	Roof field	Power Plant – West side	None detected
TR0821-133	Roof flashing	Power Plant – North side	None detected
TR0821-134	Roof flashing	Power Plant – South side	None detected
TR0821-135	Roof flashing	Power Plant – West side	None detected
TR0822-136	12" x 12" orange floor tile	Mimosa Hall – Hallway	None detected
TR0822-137	Black mastic associated with 12" x 12" orange floor tile	Mimosa Hall – Hallway	None detected
TR0822-138	12" x 12" blue floor tile	Mimosa Hall – Room 34	None detected
TR0822-139	Black mastic associated with 12" x 12" blue floor tile	Mimosa Hall – Room 34	None detected
TR0822-140	Roof field	Mimosa Hall – East side	None detected
TR0822-141	Roof field	Mimosa Hall – West side	None detected
TR0822-142	Roof field	Mimosa Hall – North side	None detected
TR0822-143	Roof flashing	Mimosa Hall – East side	None detected
TR0822-144	Roof flashing	Mimosa Hall – West side	None detected
TR0822-145	Roof flashing	Mimosa Hall – North side	None detected
TR0822-146	White and tan linoleum flooring	Pine Hall – Hallway	None detected
TR0822-147	12" x 12" white floor tile	Pine Hall – Room 182	None detected
TR0822-148	Black mastic associated with 12" x 12" white floor tile	Pine Hall – Room 182	2% Chrysotile
TR0822-149	Roof field	Pine Hall – East side	None detected
TR0822-150	Roof field	Pine Hall – West side	None detected
TR0822-151	Roof field	Pine Hall – South side	None detected
TR0822-152	Roof flashing	Pine Hall – East side	None detected
TR0822-153	Roof flashing	Pine Hall – West side	None detected
TR0822-154	Roof flashing	Pine Hall – South side	None detected
TR0822-155	Roof field	Howe Residences – Unit 104	None detected
TR0822-156	Roof field	Howe Residences – Unit 506	None detected
TR0822-157	Roof field	Howe Residences – Unit 308	None detected
TR0822-158	Roof flashing	Howe Residences – Unit 104	None detected

Asbestos Results Summary Table

Tinley Park Mental Health Center and Howe Developmental Center
7400-7600 W. 183rd Street
Tinley Park, Illinois

SAMPLE ID	MATERIAL SAMPLED	LOCATION	% ASBESTOS
TR0822-159	Roof flashing	Howe Residences – Unit 506	None detected
TR0822-160	Roof flashing	Howe Residences – Unit 308	None detected
TR0822-161	Rooftop caulk	Howe Residences – Unit 104	None detected
TR0822-162	Low Roof field	Howe Residences – Recreation Center	None detected
TR0822-163	High Roof field	Howe Residences – Recreation Center	None detected
TR0822-164	Mid Roof field	Howe Residences – Recreation Center	None detected
TR0823-165	Low Roof flashing	Howe Residences – Recreation Center	None detected
TR0823-166	High Roof flashing	Howe Residences – Recreation Center	None detected
TR0823-167	Mid Roof flashing	Howe Residences – Recreation Center	None detected
TR0823-168	Rooftop ductwork insulation	Howe Residences – Recreation Center	10% Chrysotile
TR0823-169	Roof field	Sycamore Hall – East side	None detected
TR0823-170	Roof field	Sycamore Hall – North side	None detected
TR0823-171	Roof field	Sycamore Hall – South side	None detected
TR0823-172	Roof flashing	Sycamore Hall – East side	None detected
TR0823-173	Roof flashing	Sycamore Hall – North side	None detected
TR0823-174	Brown glue pad on 1' x 1' ceiling tile	Hickory Hall – 1 st floor	None detected
TR0823-175	Black window sill	Hickory Hall – 1 st floor	None detected
TR0823-176	Paneling on cooling tower	Administration Building – Cooling Tower	25% Chrysotile
TR0823-177	Exterior wall paneling	Willow Hall – Exterior walls	25% Chrysotile

Appendix C

Analytical Results and Lab Certifications

**EMSL Analytical, Inc.**

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 Analysis Date: 8/27/2013
 Collected:

Project: **A13167-479**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
TR 0820-01 261306268-0001	MAPLE HALL ROOM 132	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
TR 0820-02 261306268-0002	MAPLE HALL ROOM 255	Red/Green/Beige Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
TR 0820-03 261306268-0003	MAPLE HALL ROOM 233	Beige Non-Fibrous Homogeneous		98% Non-fibrous (other)	2% Chrysotile
TR 0820-04 261306268-0004	MAPLE HALL ROOM441	White Non-Fibrous Homogeneous		96% Non-fibrous (other)	4% Chrysotile
TR 0820-05 261306268-0005	MAPLE HALL 1ST FLOOR CORRIDOR	Brown Non-Fibrous Homogeneous		95% Non-fibrous (other)	5% Chrysotile
TR 0820-06 261306268-0006	MAPLE HALL ROOM 132	Black/Yellow Non-Fibrous Heterogeneous		98% Non-fibrous (other)	2% Chrysotile
TR 0820-07 261306268-0007	MAPLE HALL ROOM 255	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
TR 0820-08 261306268-0008	MAPLE HALL ROOM 233	Black/Yellow Non-Fibrous Heterogeneous		97% Non-fibrous (other)	3% Chrysotile

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 Samples analyzed by EMSL Analytical, Inc. Chicago, IL NVLAP Lab Code 200399-0

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
TR 0820-09 <i>261306268-0009</i>	MAPLE HALL ROOM 441	Black/Yellow Non-Fibrous Heterogeneous		98% Non-fibrous (other)	2% Chrysotile
TR 0820-10 <i>261306268-0010</i>	MAPLE HALL 1ST FLOOR CORRIDOR	Black Non-Fibrous Homogeneous		95% Non-fibrous (other)	5% Chrysotile
TR 0820-11 <i>261306268-0011</i>	SPRUCE HALL WEST SIDE	Black Non-Fibrous Homogeneous	5% Cellulose	95% Non-fibrous (other)	None Detected
TR 0820-12 <i>261306268-0012</i>	SPRUCE HALL SOUTH SIDE	Black Non-Fibrous Homogeneous	5% Cellulose	95% Non-fibrous (other)	None Detected
TR 0820-13 <i>261306268-0013</i>	SPRUCE HALL NORTH SIDE	Black Non-Fibrous Homogeneous	5% Cellulose	95% Non-fibrous (other)	None Detected
TR 0820-14 <i>261306268-0014</i>	SPRUCE HALL ROOM 103	White Non-Fibrous Homogeneous	20% Cellulose	80% Non-fibrous (other)	None Detected
Samples in group are not homogeneous.					
TR 0820-15 <i>261306268-0015</i>	SPRUCE HALL ROOM 203E	White Non-Fibrous Homogeneous	10% Cellulose	70% Non-fibrous (other)	20% Chrysotile
Samples in group are not homogeneous.					
TR 0820-16 <i>261306268-0016</i>	SPRUCE HALL ROOM 323	White Non-Fibrous Heterogeneous	10% Cellulose	70% Non-fibrous (other)	20% Chrysotile

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Project: **A13167-479**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
TR 0820-17 261306268-0017	SPRUCE HALL HALL NEAR 105B	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
TR 0820-18 261306268-0018	SPRUCE HALL HALL NEAR 105B	Black Non-Fibrous Homogeneous	5% Cellulose	95% Non-fibrous (other)	None Detected
TR 0820-19 261306268-0019	WILLOW HALL WING 6	White Non-Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (other)	None Detected
TR 0820-20 261306268-0020	WILLOW HALL WING 5	White Non-Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (other)	None Detected
TR 0820-21 261306268-0021	WILLOW HALL WING 7	White Non-Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (other)	None Detected
TR 0820-22 261306268-0022	WILLOW HALL WING 6	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
TR 0820-23 261306268-0023	WILLOW HALL WING 5	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
TR 0820-24 261306268-0024	WILLOW HALL WING 7	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
TR 0820-25 261306268-0025	SYCAMORE HALL N. SIDE	Gray Non-Fibrous Homogeneous		97% Non-fibrous (other)	3% Chrysotile
TR 0820-26 261306268-0026	SYCAMORE HALL W. SIDE	Gray Non-Fibrous Homogeneous		97% Non-fibrous (other)	3% Chrysotile
TR 0820-27 261306268-0027	SYCAMORE HALL E. SIDE	Gray Non-Fibrous Homogeneous		97% Non-fibrous (other)	3% Chrysotile
TR 0820-28 261306268-0028	SYCAMORE HALL N. SIDE	White Non-Fibrous Homogeneous		95% Non-fibrous (other)	5% Chrysotile
TR 0820-29 261306268-0029	SYCAMORE HALL W. SIDE	White Non-Fibrous Homogeneous		95% Non-fibrous (other)	5% Chrysotile
TR 0820-30 261306268-0030	SYCAMORE HALL E. SIDE	White Non-Fibrous Homogeneous		98% Non-fibrous (other)	2% Chrysotile
TR 0820-31 261306268-0031	SYCAMORE HALL BASEMENT HALL	Brown Non-Fibrous Homogeneous		96% Non-fibrous (other)	4% Chrysotile
TR 0820-32 261306268-0032	SYCAMORE HALL BASEMENT HALL	Black Non-Fibrous Homogeneous		95% Non-fibrous (other)	5% Chrysotile

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
TR 0820-33 261306268-0033	SYCAMORE HALL 1ST FLOOR	White Non-Fibrous Homogeneous		96% Non-fibrous (other)	4% Chrysotile
TR 0820-34 261306268-0034	SYCAMORE HALL 1ST FLOOR	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
TR 0820-35 261306268-0035	ADMIN BLDG ROOF EAST	Black Non-Fibrous Heterogeneous	5% Cellulose 5% Synthetic	90% Non-fibrous (other)	None Detected
TR 0820-36 261306268-0036	ADMIN BLDG ROOF WEST	Black Non-Fibrous Heterogeneous	5% Glass 5% Synthetic	90% Non-fibrous (other)	None Detected
TR 0820-37 261306268-0037	ADMIN BLDG ROOF SOUTH	Black Non-Fibrous Heterogeneous	5% Cellulose 5% Synthetic	90% Non-fibrous (other)	None Detected
TR 0820-38 261306268-0038	SYCAMORE HALL 1ST FLOOR	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
TR 0820-39 261306268-0039	SYCAMORE HALL 1ST FLOOR	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
TR 0820-40 261306268-0040	SYCAMORE HALL BASEMENT	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

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 ProjectID:

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Phone: (312) 663-3900
 Fax: (312) 663-3930
 Received: 08/26/13 8:00 AM
 Analysis Date: 8/27/2013
 Collected:

Project: **A13167-479**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
TR 0820-41 261306268-0041	SYCAMORE HALL 1ST FLOOR	White Non-Fibrous Homogeneous		97% Non-fibrous (other)	3% Chrysotile
TR 0820-42 261306268-0042	SYCAMORE HALL 2ND FLOOR	White Non-Fibrous Homogeneous		97% Non-fibrous (other)	3% Chrysotile
TR 0820-43 261306268-0043	SYCAMORE HALL 2ND FLOOR	White Non-Fibrous Homogeneous		98% Non-fibrous (other)	2% Chrysotile
TR 0820-44 261306268-0044	MECHANICAL/ENGINEERING MEN'S LOCKER ROOM	White Non-Fibrous Homogeneous		93% Non-fibrous (other)	7% Chrysotile
TR 0820-45 261306268-0045	MECHANICAL/ENGINEERING MEN'S LOCKER ROOM	Black Non-Fibrous Homogeneous		97% Non-fibrous (other)	3% Chrysotile
TR 0820-46 261306268-0046	TRANSPORTATION BLDG SOUTH	White Non-Fibrous Homogeneous	3% Wollastonite	97% Non-fibrous (other)	<1% Chrysotile
TR 0820-47 261306268-0047	TRANSPORTATION BLDG EAST	White Non-Fibrous Homogeneous	3% Wollastonite	97% Non-fibrous (other)	<1% Chrysotile
TR 0820-48 261306268-0048	TRANSPORTATION BLDG WEST	White Non-Fibrous Homogeneous	3% Wollastonite	97% Non-fibrous (other)	<1% Chrysotile

Analyst(s) _____

Alice Hillegass (61) Nick Neu (10)
 Dahlia Zyhowski (106)

James Hahn, Laboratory Manager
 or other approved signatory

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Initial report from 08/27/2013 16:04:50

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Project: **A13167-479**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
TR 0820-49 261306268-0049	TRANSPORTATI ON BLDG EAST	Gray Non-Fibrous Homogeneous		95% Non-fibrous (other)	5% Chrysotile
TR 0820-50 261306268-0050	TRANSPORTATI ON BLDG EAST	Gray Non-Fibrous Homogeneous		95% Non-fibrous (other)	5% Chrysotile
TR 0820-51 261306268-0051	TRANSPORTATI ON BLDG SOUTH	Gray Non-Fibrous Homogeneous		90% Non-fibrous (other)	10% Chrysotile
TR 0820-52 261306268-0052	TRANSPORTATI ON BLDG EAST	Black Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
Analysis is for Tar on Copper Roof.					
TR 0820-53 261306268-0053	TRANSPORTATI ON BLDG EAST	Black Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
Analysis is for Tar on Copper Roof.					
TR 0820-54 261306268-0054	TRANSPORTATI ON BLDG WEST	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
Analysis is for Tar on Copper Roof.					
TR 0820-55 261306268-0055	TRANSPORTATI ON BLDG WEST	Beige Non-Fibrous Homogeneous		96% Non-fibrous (other)	4% Chrysotile
TR 0820-56 261306268-0056	TRANSPORTATI ON BLDG WEST	Black Non-Fibrous Homogeneous		95% Non-fibrous (other)	5% Chrysotile

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Project: **A13167-479**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
TR 0820-57 261306268-0057	WATER PLANT EAST	White Non-Fibrous Homogeneous	2% Wollastonite	98% Non-fibrous (other)	None Detected
TR 0820-58 261306268-0058	WATER PLANT WEST	White Non-Fibrous Homogeneous	2% Wollastonite	98% Non-fibrous (other)	None Detected
TR 0820-59 261306268-0059	WATER PLANT WEST	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
TR 0820-60 261306268-0060	WATER PLANT 1ST FLOOR	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
TR 0820-61 261306268-0061	WATER PLANT 1ST FLOOR	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
TR 0820-62 261306268-0062	WATER PLANT 1ST FLOOR	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
TR 0820-63 261306268-0063	WATER PLANT 1ST FLOOR WEST	White Non-Fibrous Homogeneous	3% Wollastonite	95% Non-fibrous (other)	2% Chrysotile
TR 0820-64 261306268-0064	WATER PLANT 1ST FLOOR EAST	White Non-Fibrous Homogeneous	3% Wollastonite	95% Non-fibrous (other)	2% Chrysotile

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Project: **A13167-479**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
TR 0820-65 261306268-0065	WATER PLANT 1ST FLOOR EAST	White Non-Fibrous Homogeneous		98% Non-fibrous (other)	2% Chrysotile
TR 0820-66 261306268-0066	WATER PLANT BASEMENT	White Fibrous Homogeneous	10% Cellulose	30% Non-fibrous (other)	60% Chrysotile
TR 0820-67 261306268-0067	WATER PLANT BASEMENT	White Fibrous Homogeneous	10% Cellulose	30% Non-fibrous (other)	60% Chrysotile
TR 0820-68 261306268-0068	WATER PLANT BASEMENT	White Fibrous Homogeneous	10% Cellulose	30% Non-fibrous (other)	60% Chrysotile
TR 0820-69 261306268-0069	CEDAR HALL OFFICE	White Non-Fibrous Homogeneous	10% Cellulose	70% Non-fibrous (other)	20% Chrysotile
TR 0820-70 261306268-0070	CEDAR HALL HOLDING CELL	White Non-Fibrous Homogeneous	10% Cellulose	70% Non-fibrous (other)	20% Chrysotile
TR 0820-71 261306268-0071	CEDAR HALL NEAR ROOM 4-12	White Non-Fibrous Homogeneous	10% Cellulose	70% Non-fibrous (other)	20% Chrysotile
TR 0820-72 261306268-0072	CEDAR HALL PAINT ROOM	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

Analyst(s) _____

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Project: **A13167-479**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
TR 0820-73 261306268-0073	CEDAR HALL PAINT ROOM	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
TR 0820-74 261306268-0074	CEDAR HALL SHOP ROOM	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
TR 0820-75 261306268-0075	CEDAR HALL SHOP ROOM	White Non-Fibrous Homogeneous		97% Non-fibrous (other)	3% Chrysotile
TR 0820-76 261306268-0076	CEDAR HALL SHOP ROOM	Black Non-Fibrous Homogeneous		95% Non-fibrous (other)	5% Chrysotile
TR 0820-77 261306268-0077	CEDAR HALL SOUTH	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
TR 0820-78 261306268-0078	CEDAR HALL EAST	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
TR 0820-79 261306268-0079	CEDAR HALL WEST	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
TR 0820-80 261306268-0080	CEDAR HALL SOUTH	Gray Non-Fibrous Homogeneous	2% Wollastonite	98% Non-fibrous (other)	None Detected

Analyst(s)
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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
TR 0820-81 <i>261306268-0081</i>	CEDAR HALL EAST	Gray Non-Fibrous Homogeneous	2% Wollastonite	98% Non-fibrous (other)	None Detected
TR 0820-82 <i>261306268-0082</i>	CEDAR HALL WEST	Gray Non-Fibrous Homogeneous	2% Wollastonite	98% Non-fibrous (other)	None Detected
TR 0820-83 <i>261306268-0083</i>	COTTAGE #4	White/Black Non-Fibrous Homogeneous	20% Cellulose	80% Non-fibrous (other)	None Detected
TR 0820-84 <i>261306268-0084</i>	COTTAGE #1	White/Black Non-Fibrous Homogeneous	20% Cellulose	80% Non-fibrous (other)	None Detected
TR 0820-85 <i>261306268-0085</i>	COTTAGE #7	White/Black Non-Fibrous Heterogeneous	20% Cellulose	80% Non-fibrous (other)	None Detected
TR 0820-86 <i>261306268-0086</i>	COTTAGE #4	White Non-Fibrous Homogeneous		97% Non-fibrous (other)	3% Chrysotile
TR 0820-87 <i>261306268-0087</i>	COTTAGE #4	Tan Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
TR 0820-88 <i>261306268-0088</i>	COTTAGE #5	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
TR 0820-89 261306268-0089	COTTAGE #1	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
TR 0820-90 261306268-0090	COTTAGE #7	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
TR 0820-91 261306268-0091	COTTAGE #7	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
TR 0820-92 261306268-0092	POWERHOUSE TRANSFORMER ROOM	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
TR 0820-93 261306268-0093	POWERHOUSE 2ND FLOOR NORTH	White Non-Fibrous Homogeneous	3% Wollastonite	97% Non-fibrous (other)	<1% Chrysotile
TR 0820-94 261306268-0094	POWERHOUSE EXTERIOR SOUTH	White Non-Fibrous Homogeneous	3% Wollastonite	97% Non-fibrous (other)	None Detected
TR 0820-95 261306268-0095	RESIDENCE UNIT 105	White Non-Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (other)	None Detected
TR 0820-96 261306268-0096	RESIDENCE UNIT 105	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
TR 0820-97 261306268-0097	NEIGHBORHOOD HOUSE #1	White Non-Fibrous Homogeneous		96% Non-fibrous (other)	4% Chrysotile
TR 0820-98 261306268-0098	NEIGHBORHOOD HOUSE #1	Black Non-Fibrous Homogeneous		92% Non-fibrous (other)	8% Chrysotile
TR 0820-99 261306268-0099	NEIGHBORHOOD HOUSE #2	Black Non-Fibrous Homogeneous		96% Non-fibrous (other)	4% Chrysotile
TR 0820-100 261306268-0100	RESIDENCE UNIT 202	White Non-Fibrous Homogeneous		97% Non-fibrous (other)	3% Chrysotile
TR 0820-101 261306268-0101	RESIDENCE UNIT 202	Black Non-Fibrous Homogeneous		95% Non-fibrous (other)	5% Chrysotile
TR 0820-102 261306268-0102	RESIDENCE UNIT 202	White Non-Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (other)	None Detected
TR 0820-103 261306268-0103	RESIDENCE UNIT 202	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
TR 0820-104 261306268-0104	RESIDENCE UNIT 302	White Non-Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (other)	None Detected

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			% Fibrous	% Non-Fibrous	% Type
TR 0820-105 261306268-0105	NEIGHBORHOOD HOUSE #3	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
TR 0820-106 261306268-0106	RECREATION CENTER	White Non-Fibrous Homogeneous		97% Non-fibrous (other)	3% Chrysotile
TR 0820-107 261306268-0107	RECREATION CENTER	Black Non-Fibrous Homogeneous		95% Non-fibrous (other)	5% Chrysotile
TR 0820-108 261306268-0108	RECREATION CENTER	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
TR 0820-109 261306268-0109	OAK HALL ENTRANCE	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
TR 0820-110 261306268-0110	OAK HALL XEROX ROOM	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
TR 0820-111 261306268-0111	OAK HALL 3RD FLOOR	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
TR 0820-112 261306268-0112	OAK HALL LABORATORY	Gray/Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

Analyst(s)
 Alice Hillegass (61) Nick Neu (10)
 Dahlia Zyhowski (106)

James Hahn, Laboratory Manager
 or other approved signatory

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Initial report from 08/27/2013 16:04:50

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Phone: (312) 663-3900
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 Received: 08/26/13 8:00 AM
 Analysis Date: 8/27/2013
 Collected:

Project: **A13167-479**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
TR 0820-113 261306268-0113	OAK HALL BASEMENT	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
TR 0820-114 261306268-0114	OAK HALL BASEMENT	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
TR 0820-115 261306268-0115	OAK HALL BASEMENT	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
TR 0820-116 261306268-0116	OAK HALL SERVICE VESTIBULE	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
TR 0820-117 261306268-0117	OAK HALL SERVICE VESTIBULE	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
TR 0820-118 261306268-0118	MECHANICAL/EN G BUILDING NORTH	Black Non-Fibrous Heterogeneous	10% Glass	90% Non-fibrous (other)	None Detected
TR 0820-119 261306268-0119	MECHANICAL/EN G BUILDING SOUTH	Black Non-Fibrous Homogeneous	10% Glass	90% Non-fibrous (other)	None Detected
TR 0820-120 261306268-0120	MECHANICAL/EN G BUILDING EAST	Black Non-Fibrous Heterogeneous	10% Glass	90% Non-fibrous (other)	None Detected

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Project: **A13167-479**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
TR 0820-121 261306268-0121	MECHANICAL/EN G BUILDING N.	White/Black Non-Fibrous Homogeneous	10% Synthetic	90% Non-fibrous (other)	None Detected
TR 0820-122 261306268-0122	MECHANICAL/EN G BUILDING S.	Black/Silver Non-Fibrous Homogeneous	5% Glass 10% Synthetic	85% Non-fibrous (other)	None Detected
TR 0820-123 261306268-0123	MECHANICAL/EN G BUILDING E.	White/Black Non-Fibrous Heterogeneous	5% Glass 5% Synthetic	90% Non-fibrous (other)	None Detected
TR 0820-124 261306268-0124	GARAGE LOW ROOF	White/Black Non-Fibrous Homogeneous	10% Cellulose 10% Synthetic	80% Non-fibrous (other)	None Detected
TR 0820-125 261306268-0125	GARAGE MID ROOF	White/Black Non-Fibrous Homogeneous	10% Cellulose 10% Synthetic	80% Non-fibrous (other)	None Detected
TR 0820-126 261306268-0126	GARAGE HIGH ROOF	White/Black Non-Fibrous Heterogeneous	10% Cellulose 10% Synthetic	80% Non-fibrous (other)	None Detected
TR 0820-127 261306268-0127	GARAGE LOW FLASHING	White/Black Non-Fibrous Homogeneous	10% Synthetic	90% Non-fibrous (other)	None Detected
TR 0820-128 261306268-0128	GARAGE MID FLASHING	White/Black Non-Fibrous Homogeneous	10% Glass	90% Non-fibrous (other)	None Detected

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Project: **A13167-479**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
TR 0820-129 261306268-0129	GARAGE HIGH FLASHING	White/Black Non-Fibrous Heterogeneous	10% Glass	90% Non-fibrous (other)	None Detected
TR 0820-130 261306268-0130	POWER PLANT N	White/Black Non-Fibrous Homogeneous	15% Cellulose	85% Non-fibrous (other)	None Detected
TR 0820-131 261306268-0131	POWER PLANT S	White/Black Non-Fibrous Homogeneous	15% Cellulose	85% Non-fibrous (other)	None Detected
TR 0820-132 261306268-0132	POWER PLANT W	White/Black Non-Fibrous Heterogeneous	15% Cellulose	85% Non-fibrous (other)	None Detected
TR 0820-133 261306268-0133	POWER PLANT N	White/Black Non-Fibrous Homogeneous	10% Synthetic	90% Non-fibrous (other)	None Detected
TR 0820-134 261306268-0134	POWER PLANT S	White/Black Non-Fibrous Homogeneous	10% Synthetic	90% Non-fibrous (other)	None Detected
TR 0820-135 261306268-0135	POWER PLANT W	White/Black Non-Fibrous Heterogeneous	10% Synthetic	90% Non-fibrous (other)	None Detected
TR 0820-136 261306268-0136	MIMOSA HALL HALLWAY	Orange Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
TR 0820-137 261306268-0137	MIMOSA HALL HALLWAY	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
TR 0820-138 261306268-0138	MIMOSA HALL ROOM 34	Blue Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
TR 0820-139 261306268-0139	MIMOSA HALL ROOM 34	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
TR 0820-140 261306268-0140	MIMOSA HALL EAST	Black Non-Fibrous Heterogeneous	25% Cellulose 7% Synthetic	68% Non-fibrous (other)	None Detected
TR 0820-141 261306268-0141	MIMOSA HALL WEST	Black Non-Fibrous Heterogeneous	25% Cellulose 7% Synthetic	68% Non-fibrous (other)	None Detected
TR 0820-142 261306268-0142	MIMOSA HALL NORTH	Black Non-Fibrous Heterogeneous	20% Cellulose 3% Glass 5% Synthetic	72% Non-fibrous (other)	None Detected
TR 0820-143 261306268-0143	MIMOSA HALL E.	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
TR 0820-144 261306268-0144	MIMOSA HALL W.	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

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Project: **A13167-479**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
TR 0820-145 261306268-0145	MIMOSA HALL N.	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
TR 0820-146 261306268-0146	PINE HALL HALLWAY	White Non-Fibrous Heterogeneous	10% Cellulose 10% Synthetic 3% Glass	77% Non-fibrous (other)	None Detected
TR 0820-147 261306268-0147	PINE HALL RM 182	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
TR 0820-148 261306268-0148	PINE HALL RM 182	Black Non-Fibrous Homogeneous		98% Non-fibrous (other)	2% Chrysotile
TR 0820-149 261306268-0149	PINE HALL EAST	Black Non-Fibrous Heterogeneous	20% Cellulose 5% Glass 5% Synthetic	70% Non-fibrous (other)	None Detected
TR 0820-150 261306268-0150	PINE HALL WEST	Black Non-Fibrous Heterogeneous	20% Cellulose 5% Glass 5% Synthetic	70% Non-fibrous (other)	None Detected
TR 0820-151 261306268-0151	PINE HALL SOUTH	Black Non-Fibrous Heterogeneous	20% Cellulose 5% Glass 5% Synthetic	70% Non-fibrous (other)	None Detected
TR 0820-152 261306268-0152	PINE HALL EAST	White/Black Non-Fibrous Heterogeneous	10% Synthetic	90% Non-fibrous (other)	None Detected

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
TR 0820-153 261306268-0153	PINE HALL WEST	White/Black Non-Fibrous Heterogeneous	10%	Synthetic	90% Non-fibrous (other) None Detected
TR 0820-154 261306268-0154	PINE HALL SOUTH	White/Black Non-Fibrous Heterogeneous	5%	Glass 5% Synthetic	90% Non-fibrous (other) None Detected
TR 0820-155 261306268-0155	HOWE RESIDENCES UNIT 104	Various Non-Fibrous Heterogeneous	20%	Cellulose 5% Glass 5% Synthetic	70% Non-fibrous (other) None Detected
TR 0820-156 261306268-0156	HOWE RESIDENCES UNIT 506	Various Non-Fibrous Heterogeneous	20%	Cellulose 5% Glass 5% Synthetic	70% Non-fibrous (other) None Detected
TR 0820-157 261306268-0157	HOWE RESIDENCES UNIT 308	Various Non-Fibrous Heterogeneous	20%	Cellulose 5% Glass 5% Synthetic	70% Non-fibrous (other) None Detected
TR 0820-158 261306268-0158	HOWE RESIDENCES UNIT 104	Black Non-Fibrous Homogeneous	10%	Synthetic	90% Non-fibrous (other) None Detected
TR 0820-159 261306268-0159	HOWE RESIDENCES UNIT 506	Black Non-Fibrous Homogeneous	10%	Synthetic	90% Non-fibrous (other) None Detected
TR 0820-160 261306268-0160	HOWE RESIDENCES UNIT 308	Black Non-Fibrous Homogeneous	10%	Synthetic	90% Non-fibrous (other) None Detected

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
TR 0820-161 261306268-0161	HOWE RESIDENCES UNIT 104	Gray/Silver Non-Fibrous Homogeneous			100% Non-fibrous (other) None Detected
TR 0820-162 261306268-0162	HOWE RESIDENCES RECREATION CENTER	Various Non-Fibrous Heterogeneous	35% Cellulose 5% Glass		60% Non-fibrous (other) None Detected
TR 0820-163 261306268-0163	HOWE RESIDENCES RECREATION CENTER	Various Fibrous Homogeneous	35% Cellulose 5% Glass		60% Non-fibrous (other) None Detected
TR 0820-164 261306268-0164	HOWE RESIDENCES RECREATION CENTER	Various Fibrous Homogeneous	35% Cellulose 7% Glass 5% Synthetic		53% Non-fibrous (other) None Detected
TR 0820-165 261306268-0165	HOWE RESIDENCES RECREATION CENTER LOW ROOF	White/Black Non-Fibrous Heterogeneous	10% Synthetic		90% Non-fibrous (other) None Detected
TR 0820-166 261306268-0166	HOWE RESIDENCES RECREATION CENTER HIGH ROOF	White/Black Non-Fibrous Heterogeneous	10% Synthetic		90% Non-fibrous (other) None Detected
TR 0820-167 261306268-0167	HOWE RESIDENCES RECREATION CENTER MID ROOF	White/Black Non-Fibrous Heterogeneous	10% Synthetic		90% Non-fibrous (other) None Detected

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
TR 0820-168 261306268-0168	HOWE RESIDENCES RECREATION CENTER	Black Non-Fibrous Heterogeneous		90% Non-fibrous (other)	10% Chrysotile
TR 0820-169 261306268-0169	SYCAMORE HALL EAST	Various Non-Fibrous Homogeneous	25% Cellulose 5% Synthetic	70% Non-fibrous (other)	None Detected
TR 0820-170 261306268-0170	SYCAMORE HALL NORTH	Various Non-Fibrous Homogeneous	30% Cellulose	70% Non-fibrous (other)	None Detected
TR 0820-171 261306268-0171	SYCAMORE HALL SOUTH	Various Non-Fibrous Heterogeneous	30% Cellulose	70% Non-fibrous (other)	None Detected
TR 0820-172 261306268-0172	SYCAMORE HALL EAST	Black Non-Fibrous Homogeneous	5% Synthetic	95% Non-fibrous (other)	None Detected
TR 0820-173 261306268-0173	SYCAMORE HALL NORTH	Black Non-Fibrous Homogeneous	5% Synthetic	95% Non-fibrous (other)	None Detected
TR 0820-174 261306268-0174	HICKORY HALL 1ST FLOOR	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
TR 0820-175 261306268-0175	HICKORY HALL 1ST FLOOR	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

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 ProjectID:

Attn: **Thad Ryniak**
Environmental Consulting Group
411 S. Wells St., Suite 700
Chicago, IL 60607

Phone: (312) 663-3900
 Fax: (312) 663-3930
 Received: 08/26/13 8:00 AM
 Analysis Date: 8/27/2013
 Collected:

Project: **A13167-479**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
TR 0820-176 261306268-0176	ADMIN BLDG COOLING TOWER	Gray Non-Fibrous Homogeneous		75% Non-fibrous (other)	25% Chrysotile
TR 0820-177 261306268-0177	WILLOW HALL INTERIOR WALL	Gray Non-Fibrous Homogeneous		75% Non-fibrous (other)	25% Chrysotile

Analyst(s) _____

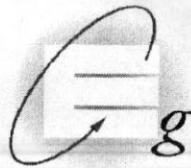
Alice Hillegass (61) Nick Neu (10)
 Dahlia Zyhowski (106)

James Hahn, Laboratory Manager
 or other approved signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Reporting limit is 1%
 Samples analyzed by EMSL Analytical, Inc. Chicago, IL NVLAP Lab Code 200399-0

Initial report from 08/27/2013 16:04:50

Environmental Consulting Group, Inc.
411 S. Wells St., Suite 700
Chicago, IL 60607
Phone: (312) 663-3900
Fax: (312) 663-3930



Asbestos Bulk Sampling Log and Chain of Custody Form

Page: 9 of 9

Project Name Howe Development Center
Project Location 7600 W. 153rd St. Tinley Park IL
Date of Collection 8-23-13
ECG Project No. A13167-479

Chain of Custody Information

Inspector Taking Samples: JK
Person Delivering at Lab: JK
Person Receiving at Lab: _____
Lab Technician Analyzing: _____
Date of Analysis: _____

Turn Around: 3 Hrs 8 Hrs 12 Hrs 24 Hrs 48 Hrs 72 Hrs 5 Days

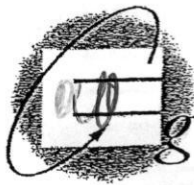
Analysis Requested: PLM TEM Other _____

Report Results: ECG Fax E-mail: mschleyer@envcg.com Other: handgrenall13@yahoo

Sample No.	Material Description	Location Sampled	Result
TR0813-165	Roof flashing	Howe Residences Recreation Center	low roof
-166	↓ ↓	↓ ↓ ↓ ↓	high ↓
167			mid
168	Roof top ductwork insulation		
169	Roof field	Sycamore Hall East	
170		North	
171		South	
172	Flashing	East	
173		North	
174	Base flashing insulation	South	
174	Brown glue pad on 1st CT	Hickory Hall 1st floor	
175	black window sill	↓ ↓ ↓ ↓	
176	transite paneling cooling tower	Admin Bldg Cooling Tower	
177	↓ ↓	Willow Hall Interior wall	

Comments:

261306268



Asbestos Bulk Sampling Log and Chain of Custody Form

241306268

Page: 2 of 9

Project Name: Home Development
Center
 Project Location: 7600 W. 183rd
Tinley Park IL
 Date of Collection: 8-20-13 to 8-23-13
 ECG Project No.: A13167-479

Chain of Custody Information
 Inspector Taking Samples: ML
 Person Delivering at Lab: ML
 Person Receiving at Lab: _____
 Analyzed by: _____
 Date of Analysis: _____

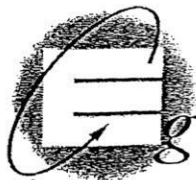
Turn Around: Immediate 4 Hrs 8 Hrs 12 Hrs 24 Hrs 48 Hrs 72 Hrs 5 Days

Analysis Requested: PLM TEM Other _____

Report Results: ECG Fax E-mail: thadryank@ecginc.com Other: _____

Sample No.	Lab No.	Material Description	Location Sampled	Result
TR0820-22		drywall compound	Willow Hall Wing 6	
23		↓ ↓	↓ ↓	5
24		↓ ↓	↓ ↓	7
25		Exterior window caulk	SYCAMORE HALL N. side	
26		↓ ↓	↓ ↓	W. ↓
27		↓ ↓	↓ ↓	E. ↓
28		↓ ↓	↓ ↓	N. ↓
29		↓ ↓	↓ ↓	W. ↓
30		↓ ↓	↓ ↓	E. ↓
31		9x9 brown floor tile	basement hall	
32		black mastic assoc. w/ 31	↓ ↓	
33		12x12 white floor tile	1st floor	
34		yellow mastic assoc. w/ sample 34	↓ ↓ ↓ ↓	
35		Asphalt roofing material Roof Field	ADMIN BLDG ROOFEAST	
36		↓ ↓	ADMIN BLDG ROOFWEST	
37		Flashing	ADMIN BLDG Roof ROOF SOUTH	
38		brown glue pad assoc w/sample 35	SYCAMORE HALL 1st floor	
39		↓ ↓ ↓ ↓	↓ ↓	
40		↓ ↓ ↓ ↓	↓ ↓	basement
41		interior window rubber glaze	1st floor	
42		↓ ↓	↓ ↓	2nd ↓
43		↓ ↓	↓ ↓	

Comments: _____



Asbestos Bulk Sampling Log and Chain of Custody Form

261306268

Page: 4 of 4

Project Name Howe Development Center Chain of Custody Information

Project Location 7600 W. 183rd St.
Trinity Park, IL

Date of Collection 8-20-13 to 8-23-13

ECG Project No. A13167-474

Inspector Taking Samples: TR

Person Delivering at Lab: TR

Person Receiving at Lab: _____

Analyzed by: _____

Date of Analysis: _____

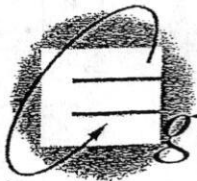
Turn Around: Immediate 4 Hrs 8 Hrs 12 Hrs 24 Hrs 48 Hrs 72 Hrs 5 Days

Analysis Requested: PLM TEM Other _____

Report Results: ECG Fax E-mail: thindryna@bcg.com Other: _____

Sample No.	Lab No.	Material Description	Location Sampled	Result
TR0520-66		Boiler door insulation	WASCO PLANT Basement	
67		↓ ↓ ↓	↓ ↓ ↓	
68		↓ ↓ ↓	↓ ↓ ↓	
69		white linoleum floor	CEDAR HALL OFFICE	
70		↓ ↓ ↓	holding cell	
71		↓ ↓ ↓	NEAR Room 4-112	
72		insulation chalkboard wall mastic	Paint room	
73		↓ ↓ ↓	↓ ↓	
74		↓ ↓ ↓	shop room	
75		9x9 white FT	↓ ↓	
76		black mastic assoc. w/ sample 75	↓ ↓	
77		exterior window caulk	South	
78		↓ ↓ ↓	East	
79		↓ ↓ ↓	West	
80		↓ ↓ ↓	South	
81		↓ ↓ ↓	East	
82		↓ ↓ ↓	West	
83		Roof shingle	Cottage # 4	
84		↓ ↓ ↓	# 1	
85		↓ ↓ ↓	# 7	
86		black white FT	Cottage # 4	
87		yellow mastic assoc. w/ sample 84	↓ ↓	

Comments: _____



Asbestos Bulk Sampling Log and Chain of Custody Form

261306268

Page: 5 of 9

Project Name Hove Development Center

Chain of Custody Information

Project Location 7600 W 183rd St.

Inspector Taking Samples: MT

Trinity Park IS

Person Delivering at Lab: RT

Date of Collection 8-20-13 to 8-23-13

Person Receiving at Lab: _____

ECG Project No. A13167-479

Analyzed by: _____

Date of Analysis: _____

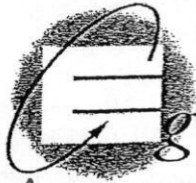
Turn Around: Immediate 4 Hrs 8 Hrs 12 Hrs 24 Hrs 48 Hrs 72 Hrs 5 Days

Analysis Requested: PLM TEM Other _____

Report Results: ECG Fax E-mail: thadryna13@yahoo Other: _____

Sample No.	Lab No.	Material Description	Location Sampled	Result
TR0820-88		12x12 white floor tile	Cottage # 5	
89		black mastic assoc. w/sample 88	↓ 1	
90		12x12 white FT	↓ 7	
91		black mastic assoc w/sample 90	↓ 7	
TR0821-92		black sub undercoating	Powerhouse Transformer Room	
93		interior window glazing	↓ 2nd Floor north	
94		exterior ↓ ↓	↓ Exterior south	
95		Drywall wall	Residence unit 105	
96		↓ Compound	↓ ↓ ↓	
97		12x12 white FT	Neighborhood house #1	
98		black mastic under sample 97	↓ ↓ ↓	
99		exterior window caulk	↓ ↓ 2	
100		12x12 white floor tile	Residence unit 202	
101		black mastic under sample 100	↓ ↓ ↓	
102		Drywall wall	↓ ↓ ↓	
103		↓ Compound	↓ ↓ 302	
104		↓ ↓	↓ ↓	
105		↓ ↓	Neighborhood house 3	
106		12x12 white floor tile	Recreation Center	
107		black mastic under sample 106	↓ ↓	
108		gray roof caulk	↓ ↓	

Comments: _____



Asbestos Bulk Sampling Log and Chain of Custody Form

261306268

Page: 6 of 9

Project Name Howe Development Center
 Project Location 8600 W. 183rd St.,
Tinley Park, IL
 Date of Collection 8-20-13 to 8-23-13
 ECG Project No. A13167-479

Chain of Custody Information
 Inspector Taking Samples: TR
 Person Delivering at Lab: TR
 Person Receiving at Lab: _____
 Analyzed by: _____
 Date of Analysis: _____

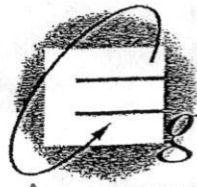
Turn Around: Immediate 4 Hrs 8 Hrs 12 Hrs 24 Hrs 48 Hrs 72 Hrs 5 Days

Analysis Requested: PLM TEM Other _____

Report Results: ECG Fax E-mail: hulryank@bbyhoo.com Other: _____

Sample No.	Lab No.	Material Description	Location Sampled	Result
TR-0521-104		brown glue pad associated w/ 1x1 CT	GARAGE Entrance	
110		↓ ↓ ↓ ↓	↓ ↓	
111			XEROX ROOM	
112		Laboratory table top	Laboratory	
113		yellow carpet mastic	basement	
114		↓ ↓ ↓	↓ ↓ ↓	
115				
116		12x12 white floor tile	Service vestibule	
117		yellow mastic assoc. w/ sample 114	↓ ↓ ↓ ↓	
118		Roof field	Mechanical/Eng Building	North
119		↓	↓	East
120		↓	↓	East
121		Finishing	↓	N.
122		↓	↓	S.
123		↓	↓	E.
124		Field	GARAGE Low ROOF	
125		↓	Mid ↓	
126		↓	High ↓	
127		Finishing	Low Finishing	
128		↓	Mid ↓	
129		↓	High ↓	

Comments: _____



Asbestos Bulk Sampling Log and Chain of Custody Form

261306268 Page: 7 of 9

Project Name Howe Development Center Chain of Custody Information

Project Location Tinley Park IL Inspector Taking Samples: PL

Date of Collection 8-20-13 to 8-23-13 Person Delivering at Lab: PL

ECG Project No. A13167-479 Person Receiving at Lab: _____

Analyzed by: _____

Date of Analysis: _____

Turn Around: Immediate 4 Hrs 8 Hrs 12 Hrs 24 Hrs 48 Hrs 72 Hrs 5 Days

Analysis Requested: PLM TEM Other _____

Report Results: ECG Fax E-mail: thindryan@b36ynhoo.com Other: _____

Sample No.	Lab No.	Material Description	Location Sampled	Result
TR0501-130		Roof field	POWER PLANT N	
	131	↓	↓	S
	132	↓	↓	W
	133	Flashing	↓	N
	134	↓	↓	S
	135	↓	↓	W
TR0502-136		12x12 orange floor tile	MIMOSA HALL HALLWAY	
	137	black mastic assoc. w/sample 136	↓	↓
	138	12x12 blue floor tile	↓	Room 34
	139	black mastic assoc. w/sample 138	↓	↓
	140	Roof field	↓	East
	141	↓	↓	West
	142	↓	↓	North
	143	Flashing	↓	E.
	144	↓	↓	W.
	145	↓	↓	N.
	146	white & tan linoleum flooring	PINE HALL HALLWAY	
	147	12x12 white floor tile	↓	Rm 152
	148	black mastic assoc. w/sample 147	↓	↓
	149	Roof field	↓	East
	150	↓	↓	West
	151	↓	↓	South

Comments: _____

Environmental Consulting Group, Inc.
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Asbestos Bulk Sampling Log and Chain of Custody Form

Page: 8 of 9

Project Name: Howe Development Center
 Project Location: 7600 W. 183rd St. Tinley Park IL
 Date of Collection: 8-22-13
 ECG Project No.: A13167-475

Chain of Custody Information

Inspector Taking Samples: TR
 Person Delivering at Lab: TR
 Person Receiving at Lab: _____
 Lab Technician Analyzing: _____
 Date of Analysis: _____

Turn Around: 3 Hrs 8 Hrs 12 Hrs 24 Hrs 48 Hrs 72 Hrs 5 Days

Analysis Requested: PLM TEM Other _____

Report Results: ECG Fax E-mail: mschleyer@envcg.com Other: theadrynk@b@yahoo.com

Sample No.	Material Description	Location Sampled	Result
152	Roof flashing	Pine Hall East	
153	↓ ↓	↓ ↓ West	
154		↓ ↓ South	
155	Roof field	Howe Residences Unit 104	
156	↓ ↓	↓ ↓ 506	
157		↓ ↓ 306	
158	Flashing	↓ ↓ 104	
159	↓ ↓	↓ ↓ 506	
160	↓ ↓	↓ ↓ 306	
161	Rooftop mull	Unit 104	
162	Roof field low roof	Howe Residences Recreation Center	
163	↓ ↓ High Roof	↓ ↓ ↓ ↓	
164	↓ ↓ Mid Roof	↓ ↓ ↓ ↓	

Comments: _____

261306268

Environmental Consulting Group, Inc.
 411 S. Wells St., Suite 700
 Chicago, IL 60607
 Phone: (312) 663-3900
 Fax: (312) 663-3930



Asbestos Bulk Sampling Log and Chain of Custody Form

Page: 9 of 9

Project Name: Home Development Center
 Project Location: 7000 W. 153rd St. Tinley Park IL
 Date of Collection: 8-23-13
 ECG Project No.: A13167-479

Chain of Custody Information

Inspector Taking Samples: JK
 Person Delivering at Lab: JK
 Person Receiving at Lab: _____
 Lab Technician Analyzing: _____
 Date of Analysis: _____

Turn Around: 3 Hrs 8 Hrs 12 Hrs 24 Hrs 48 Hrs 72 Hrs 5 Days

Analysis Requested: PLM TEM Other _____

Report Results: ECG Fax E-mail: mschleyer@envcg.com Other: handyrnall13@yahoo

Sample No.	Material Description	Location Sampled	Result
TR0823-165	Roof flashing	Home Residences Recreation Center	low roof
-166	↓ ↓	↓ ↓ ↓ ↓	high ↓
167			mid
168	Roof top ductwork insulation		
169	Roof field	Sycamore Hall East	
170	↓ ↓	↓ ↓ North	
171	↓ ↓	↓ ↓ South	
172	flashing	↓ ↓ East	
173	↓ ↓	↓ ↓ North	
174	Roof flashing insulation	↓ ↓ ↓ ↓	Spide
174	brown glue pad on lat CT	Hickory Hall 1st floor	
175	black window sill	↓ ↓ ↓ ↓	

Comments: 176 transite paneling cooling tower

ADMIN BLDG COOLING TOWER

177 ↓ ↓ WALL PANELS

WILLOW HALL INTERIOR WALL

261306268

Appendix D

CDB Asbestos Management Plan Reports

ASBESTOS MANAGEMENT PLAN REPORT

CDB PROJECT NUMBER - 910-010-010

HOWE MENTAL HEALTH CENTER
DEPARTMENT OF MENTAL HEALTH AND
DEVELOPMENTAL DISABILITIES
RESIDENCE UNITS 201, 202, 203 & 204
C.D.B. BUILDING #B4201, B4202, B4203 & B4204
7600 WEST 183RD STREET
TINLEY PARK, IL 60477

STATE OF ILLINOIS

CAPITAL DEVELOPMENT BOARD

SPRINGFIELD, ILLINOIS

BY:
FOX & FOX ARCHITECTS & ENGINEERS
330 SOUTH WELLS STREET
CHICAGO, IL 60606
(312) 427-5592

DATE: OCT. 10, 1994

DATE SIGNED: 10/26/94

EXP. DATE: 11/30/96

IDPH LICENSE: 100-0471

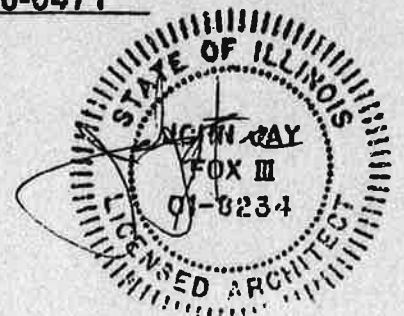
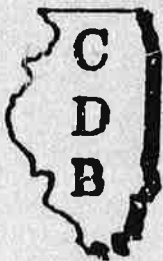


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CDB BUILDING NO.: B4201, B4202, B4203 & B4204
Residence Units 201, 202, 203 & 204

- I. Building Inventory
- II. Introduction
- III. Narrative Building Description
- IV. Summary of Findings
- V. Site Plan
- VI. Floor Plans
- VII. MFA - 1 x 1 Floor Tile and Mastic
- VIII. MMB - Fire Door - Wood
- IX. MMC - Fire Door - Metal
- X. MMD - Exhaust Back-Draft Damper Insulation
- XI. MME - Fire Damper Insulation
- XII. MMF - Built-Up Roof and Flashings
- XIII. MTA - Under Floor Duct Pipe Transite
- XIV. MTB - Light Cover
- XV. SFA - Fire Proofing on Beams
- XVI. SPA - Veneer Plaster Ceiling and Walls
- XVII. SPB - Plaster Seal Coat
- XVIII. SPC - Veneer Plaster Walls and Ceilings (1981)
- XIX. SPD - Cement Plaster Walls Remodeled (1981)
- XX. SPE - Gypsum Plaster Ceiling Remodeled (1981)
- XXI. SPF - Veneer Plaster Walls and Ceilings (1989)
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- XXIII. MMA - Tape

- XXIV. Cost Summary
- XXV. Chain of Custody
- XXVI. Licenses and Accreditations
- XXVII. Operation and Maintenance Plan

CAPITAL DEVELOPMENT BOARD BUILDING INVENTORY FORM 3

C.D.B. BUILDING NUMBER: B4201 BUILDING NAME: Residence Unit 201

USING AGENCY: 321 Dept. Of Mental Health/DD LOCATION: 070 Howe Development Center

BLDG. ADDRESS: 7600 West 183rd Street CITY: Tinley Park

ZIP: 60477 COUNTY: Cook HOUSE/SENATE DISTRICT: 037/19

YEAR CONSTRUCTED: 1974 GROSS SQ. FT. 2,800 TOTAL FLOORS: 1 FLOORS BELOW GRADE: 0

USE OF BUILDING WHEN CONSTRUCTED(C): Health Care CURRENT PRIMARY USE (P): Health Care CURRENT SECONDARY USE (S): N/A

PREDOMINATE CONSTRUCTION TYPE: Brick

FOR USING AGENCY USE ONLY: _____

BUILDING NOTES: _____

(FOR C.D.B. USE ONLY) ASBESTOS STATUS: _____

CAPITAL DEVELOPMENT BOARD BUILDING INVENTORY FORM 3

C.D.B. BUILDING NUMBER: B4202 BUILDING NAME: Residence Unit 202

USING AGENCY: 321 Dept. Of Mental Health/DD LOCATION: 070 Howe Development Center

BLDG. ADDRESS: 7600 West 183rd Street CITY: Tinley Park

ZIP: 60477 COUNTY: Cook HOUSE/SENATE DISTRICT: 037/19

YEAR CONSTRUCTED: 1974 GROSS SQ. FT. 2,800 TOTAL FLOORS: 1 FLOORS BELOW GRADE: 0

USE OF BUILDING WHEN CONSTRUCTED(C): Health Care CURRENT PRIMARY USE (P): Health Care CURRENT SECONDARY USE (S): N/A

PREDOMINATE CONSTRUCTION TYPE: Brick

FOR USING AGENCY USE ONLY: _____

BUILDING NOTES: _____

(FOR C.D.B. USE ONLY)
ASBESTOS STATUS: _____

CAPITAL DEVELOPMENT BOARD BUILDING INVENTORY FORM 3

C.D.B. BUILDING NUMBER: B4203 BUILDING NAME: Residence Unit 203

USING AGENCY: 321 Dept. Of Mental Health/DD LOCATION: 070 Howe Development Center

BLDG. ADDRESS: 7600 West 183rd Street CITY: Tinley Park

ZIP: 60477 COUNTY: Cook HOUSE/SENATE DISTRICT: 037/19

YEAR CONSTRUCTED: 1974 GROSS SQ. FT. 2,800 TOTAL FLOORS: 1 FLOORS BELOW GRADE: 0

USE OF BUILDING WHEN CONSTRUCTED(C): Health Care CURRENT PRIMARY USE (P): Health Care CURRENT SECONDARY USE (S): N/A

PREDOMINATE CONSTRUCTION TYPE: Brick

FOR USING AGENCY USE ONLY: _____

BUILDING NOTES: _____

(FOR C.D.B. USE ONLY)
ASBESTOS STATUS: _____

CAPITAL DEVELOPMENT BOARD BUILDING INVENTORY FORM 3

C.D.B. BUILDING NUMBER: B4204 **BUILDING NAME:** Residence Unit 204

USING AGENCY: 321 Dept. Of Mental Health/DD **LOCATION:** 070 Howe Development Center

BLDG. ADDRESS: 7600 West 183rd Street **CITY:** Tinley Park

ZIP: 60477 **COUNTY:** Cook **HOUSE/SENATE DISTRICT:** 037/19

YEAR CONSTRUCTED: 1974 **GROSS SQ. FT.** 2,800 **TOTAL FLOORS:** 1 **FLOORS BELOW GRADE:** 0

USE OF BUILDING WHEN CONSTRUCTED(C): Health Care **CURRENT PRIMARY USE (P):** Health Care **CURRENT SECONDARY USE (S):** N/A

PREDOMINATE CONSTRUCTION TYPE: Brick

FOR USING AGENCY USE ONLY: _____

BUILDING NOTES: _____

(FOR C.D.B. USE ONLY) ASBESTOS STATUS: _____

A

FORM 4

INTRODUCTION TO THE MANAGEMENT PLAN

A. Policy Statement

This Management Plan is intended to be a working document which will serve as a guide to staff, employees, occupants and visitors in minimizing the risk of exposure to asbestos fibers. The State of Illinois recognizes the serious health hazards associated with asbestos fibers. The State has conducted an inspection of this facility in order to determine whether asbestos is present, and if so, where the asbestos is located.

This Management Plan sets forth the recommended response actions for the ACM (asbestos containing material) within this facility. Further, where required, an Operations & Maintenance (O & M) Program has been established which will be implemented by facility staff.

This Plan has been reviewed by CDB, the Contracting Agency and the Using Agency and represents the policies and procedures to be implemented with respect to any ACM within this facility.

Dated: _____

Capital Development Board Representative

Dated: _____

Agency (Designated Person)

Dated: 10/26/94



Management Planner

The data linking asbestos exposure to mesothelioma is based upon many of the same epidemiological studies of workers that demonstrated an association between asbestos exposure and lung cancer. The findings are somewhat different than for lung cancer. Lower non-occupational exposures have also been associated with mesothelioma in addition to occupational exposure. Therefore, lower levels of exposure to asbestos as found in some non-occupational settings may give rise to mesothelioma. Secondly, the nature of the dose response relationship may be different from that of lung cancer. The risk continues to increase as the number of years since first exposure increases. In many cases, a latent period of more than 40 years has been described.

Gastrointestinal Cancer - Several of the epidemiological studies of workers occupationally exposed to asbestos have shown increased risks of gastrointestinal cancer including cancers of the colon, rectum, stomach and esophagus. The risk, however, does not appear to be as great as for lung cancer. To date, no association has been found between asbestos in drinking water and gastrointestinal cancer.

Asbestos Related Pleural Disease - This category of health effects includes fibrous and sometimes calcified plaques as well as diffuse thickening of the pleura and the pleural effusion. These are non-cancerous changes of the membranes surrounding the lungs and commonly occur many years after asbestos exposure. The presence of plaques suggests prior asbestos exposure but usually does not cause any symptoms or respiratory impairment.

Asbestosis - Asbestosis is a disabling lung disorder consisting of generalized scarring of the lungs which causes shortness of breath on exertion. Asbestosis has been described almost exclusively in workers with occupational exposure to high concentrations of asbestos-containing dusts. In asbestosis, there appears to be a very strong dose response relationship in that the greater the concentration of asbestos fibers, and the longer the duration of exposure, the greater the likelihood and severity of asbestosis.

As with the other asbestos related health effects, there is usually a time lag or latent period of several years before the development of disease. Once acquired, asbestosis tends to progress slowly, sometimes for years after asbestos exposure has ended.

CDB BUILDING NO.'S

B4201-B4202-B4203-B4204

The individual residential units were constructed in 1974 with common walls as a single building at the Howe Mental Health Facility. The exterior brick wall system was replaced in 1981 due to structural failure. The major remodeling work required replacement of interior plaster ceiling and walls.

The building is single story and has a combined square footage of 11200 square feet. There are no attics, crawlspace or basement.

The building is used to house patients for the Howe Mental Health Facility.

The exterior material is brick veneer with interior steel channels and studs supporting gypsum board and plaster. Steel columns and beams support bar joist and metal roof deck.

The roof is flat except for a sloped section near the front doors of the individual residential units. The flat roof is constructed of build-up roofing on mineral insulation. The pitch roof is terne metal. The roof is deteriorating and should be replaced.

The building is heated and cooled by a forced air system.

Under floor and overhead ducts supply air to all rooms in the residence. The HVAC systems appear in good working order. Hot water heaters in the mechanical rooms supply hot water to the building. The energy source for furnaces and hot water heaters is gas.

To the best of our knowledge there has not been any asbestos abatement in this building.

No asbestos was detected in any of the material sampled. Areas assumed to contain asbestos were not sampled and no determination of their content can be made. Any asbestos in this building would cause relatively little hazard.

SUMMARY OF FINDINGS

INSPECTION PHASE I

CDB BUILDING NO./PROJECT NO.: B4201-B4202-B4203-B4204
910-010-010

USER AGENCY: Department of Mental Health/DD

USER LOCATION: (070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477 - Cook
County

BUILDING NAME: Residence Unit 201-202-203-204

INSPECTORS: Vahooman Mirkhaef (I-057)
Jay Fox (I-0471)

HOMOGENEOUS AREA	DESCRIPTION	QUANTITY	NUMBER SAMPLES RECOMMENDED	REMOVAL COST ESTIMATE
SFA	Fire Proofing on Beams	1500	5	
SPA	Veneer Plaster Ceiling and Walls	44000	7	\$572,000
SPB	Plaster Seal Coat	240	3	
SPC	Veneer Plaster Walls and Ceilings (1981)	19000	7	\$247,000
SPD	Cement Plaster Walls Remodeled (1981)	1000	5	
SPE	Gypsum Plaster Ceiling Remodeled (1981)	1000	5	

INSPECTION PHASE I

CDB BUILDING NO./PROJECT NO.:

**B4201-B4202-B4203-B4204
910-010-010**

USER AGENCY:

Department of Mental Health/DD

USER LOCATION:

**(070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477 - Cook
County**

BUILDING NAME:

Residence Unit 201-202-203-204

INSPECTORS:

**Vahooman Mirkhaef (I-057)
Jay Fox (I-0471)**

HOMOGENEOUS AREA	DESCRIPTION	QUANTITY	NUMBER SAMPLES RECOMMENDED	REMOVAL COST ESTIMATE
SPF	Veneer Plaster Walls and Ceilings (1989)	60	3	
TJA	Mag Block Pipe Fitting	120	3	
MFA	1 X 1 Floor Tile and Mastic	9600	Assumed ACM	
MMA	Tape	300	3	
MMB	Fire Door - Wood Insulation	7	Assumed ACM	
MMC	Fire Door - Metal	12	Assumed ACM	

INSPECTION PHASE I

CDB BUILDING NO./PROJECT NO.:

**B4201-B4202-B4203-B4204
910-010-010**

USER AGENCY:

Department of Mental Health/DD

USER LOCATION:

**(070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477 - Cook
County**

BUILDING NAME:

Residence Unit 201-202-203-204

INSPECTORS:

**Vahooman Mirkhaef (I-057)
Jay Fox (I-0471)**

HOMOGENEOUS AREA	DESCRIPTION	QUANTITY	NUMBER SAMPLES RECOMMENDED	REMOVAL COST ESTIMATE
MMD	Exhaust Backdraft Damper Insulation	60	Assumed ACM	
MME	Fire Damper Insulation	60	Assumed ACM	
MMF	Built-up Roof and Flashings	10816	Assumed ACM	\$ 48,672
MTA	Under Floor Duct Pipe Transite	1200	Assumed ACM	
MTB	Light Cover	16	Assumed ACM	

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.:

**B4201-B4202-B4203-B4204
901-010-010**

USER AGENCY:

Department of Mental Health

USER LOCATION:

**(070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477**

BUILDING NAME:

Residence Unit 201-202-202-204

INSPECTORS:

**Jay Fox
Vahooman Mirkhaef
David Sloman**

HOMOGENEOUS AREA	DESCRIPTION	ACH			NOTES
		ASSUMED	POS	NEG	
MFA	1 X 1 Floor Tile and Mastic	X			
MMB	Fire Door	X			
MMC	Fire Door-Metal Insulation	X			
MMD	Exhaust Backdraft Damper Insulation	X			
MME	Fire Damper Insulation	X			
MMF	Built-Up Roof and Flashing	X			
MTA	Under Floor Duct Pipe Transite	X			

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.: B4201-B4202-B4203-B4204
901-010-010

USER AGENCY: Department of Mental Health

USER LOCATION: (070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477

BUILDING NAME: Residence Unit 201-202-202-204

INSPECTORS: Jay Fox
Vahooman Mirkhaef
David Sloman

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
MTB	Light Cover	X			
SFA	Fire Proofing on Beams			7	
SPA	Veneer Plaster Ceiling and Walls			7	
SPB	Plaster Seal Coat			5	
SPC	Veneer Plaster Walls and Ceilings			7	
SPD	Cement Plaster Walls Remodeled			7	

SUMMARY OF FINDINGS

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.:

**B4201-B4202-B4203-B4204
901-010-010**

USER AGENCY:

Department of Mental Health

USER LOCATION:

**(070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477**

BUILDING NAME:

Residence Unit 201-202-202-204

INSPECTORS:

**Jay Fox
Vahooman Mirkhaef
David Sloman**

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
SPE	Gypsum Plaster Ceiling Remodeled			7	
SPF	Veneer Plaster Walls and Ceilings (1989)			3	
TJA	Cementitious Pipe Fitting			3	
MMA	Tape			3	

HOMOGENEOUS AREA	MATERIAL DESCRIPTION	ACM CONTENT (%)			DAMAGE ASSESSMENT							RESPONSE ACTION		
		CHRYSO TILE	AMOSITE	OTHER	ASSUMED ACM	NO DAMAGE	SALIENT DAMAGE	SIGNIFICANT DAMAGE	NO POTENTIAL DAMAGE	POTENTIAL DAMAGE	POTENTIAL SIGNIFICANT DAMAGE		DAMAGE	NUMBER
MFA	1 x 1 Floor Tile and Mastic				X								8	O&M
MMB	Wood Fire Door Insulation				X				X				8	O&M
MMC	Metal Fire Door Insulation				X				X				8	O&M
MMD	Insulation at Back-Draft Dampers				X				X				8	O&M
MME	Insulation at Fire Dampers				X				X				8	O&M
MMF	Built-Up Roof, Flashings & Mastic				X				X				8	O&M
MTA	Under Floor Duct (Transite)				X				X				8	O&M
MTB	Transite Light Covers				X				X				8	O&M

ASBESTOS MANAGEMENT PLAN REPORT

CDB PROJECT NUMBER - 910-010-010

HOWE MENTAL HEALTH CENTER
DEPARTMENT OF MENTAL HEALTH AND
DEVELOPMENTAL DISABILITIES
NEIGHBORHOOD HOUSE 300
C.D.B. BUILDING #B4300
7600 WEST 183RD STREET
TINLEY PARK, IL 60477

STATE OF ILLINOIS

CAPITAL DEVELOPMENT BOARD

SPRINGFIELD, ILLINOIS

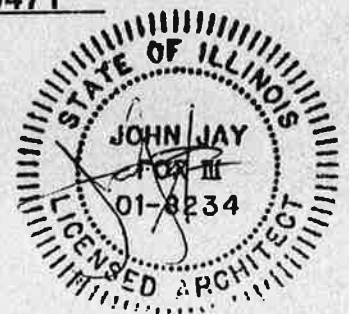
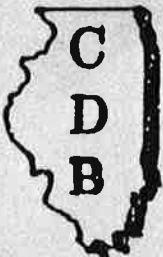
BY:
FOX & FOX ARCHITECTS & ENGINEERS
330 SOUTH WELLS STREET
CHICAGO, IL 60606
(312) 427-5592

DATE: OCT. 10, 1994

DATE SIGNED: 10/26/94

EXP. DATE: 11/30/96

IDPH LICENSE: 100-0471



The data linking asbestos exposure to mesothelioma is based upon many of the same epidemiological studies of workers that demonstrated an association between asbestos exposure and lung cancer. The findings are somewhat different than for lung cancer. Lower non-occupational exposures have also been associated with mesothelioma in addition to occupational exposure. Therefore, lower levels of exposure to asbestos as found in some non-occupational settings may give rise to mesothelioma. Secondly, the nature of the dose response relationship may be different from that of lung cancer. The risk continues to increase as the number of years since first exposure increases. In many cases, a latent period of more than 40 years has been described.

Gastrointestinal Cancer - Several of the epidemiological studies of workers occupationally exposed to asbestos have shown increased risks of gastrointestinal cancer including cancers of the colon, rectum, stomach and esophagus. The risk, however, does not appear to be as great as for lung cancer. To date, no association has been found between asbestos in drinking water and gastrointestinal cancer.

Asbestos Related Pleural Disease - This category of health effects includes fibrous and sometimes calcified plaques as well as diffuse thickening of the pleura and the pleural effusion. These are non-cancerous changes of the membranes surrounding the lungs and commonly occur many years after asbestos exposure. The presence of plaques suggests prior asbestos exposure but usually does not cause any symptoms or respiratory impairment.

Asbestosis - Asbestosis is a disabling lung disorder consisting of generalized scarring of the lungs which causes shortness of breath on exertion. Asbestosis has been described almost exclusively in workers with occupational exposure to high concentrations of asbestos-containing dusts. In asbestosis, there appears to be a very strong dose response relationship in that the greater the concentration of asbestos fibers, and the longer the duration of exposure, the greater the likelihood and severity of asbestosis.

As with the other asbestos related health effects, there is usually a time lag or latent period of several years before the development of disease. Once acquired, asbestosis tends to progress slowly, sometimes for years after asbestos exposure has ended.

CDB BUILDING B4300

BUILDING NAME : Neighborhood House No. 3

The neighborhood house was constructed in 1974; it is part of a residential unit complex for the patients at the Howe Mental Health Center. The exterior brick wall system was replaced in 1988 due to structural failure. The major remodeling work required replacement of interior plaster ceilings and walls.

The building is single story and has a square footage of 2,400 square feet. There are no attics, crawlspace or basements.

The building is used for health care administration purposes for the Howe Mental Health Facility.

The exterior surfacing material is brick veneer with interior gypsum board and veneer plaster. Steel columns and beams support bar joists and metal roof deck.

The roof is flat except for a sloped section. The roofs were replaced in 1990. The flat roof is constructed of a single ply roofing system on insulation. The pitched roof is steel construction.

The building is heated and cooled by a forced air system. Under floor and overhead ducts supply air to all the rooms in the house. An overhead return air system brings air back to the mechanical room. The HVAC system appears in good working order. A hot water heater in the mechanical room supplies hot water to the building. The furnaces and hot water energy source is gas.

To the best of our knowledge there has not been any asbestos abatement in this building.

No asbestos was detected in any of the material sampled. Areas assumed to contain asbestos were not sampled and no determination of their content can be made. Any asbestos in this building would cause relatively little hazard.

SUMMARY OF FINDINGS

INSPECTION PHASE I

CDB BUILDING NO./PROJECT NO.:

**B4300
910-010-010**

USER AGENCY:

Department of Mental Health/DD

USER LOCATION:

**(070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477 - Cook
County**

BUILDING NAME:

Neighborhood House - 300

INSPECTORS:

**Vahooman Mirkhaef (I-057)
Jay Fox (I-0471)**

HOMOGENEOUS AREA	DESCRIPTION	QUANTITY	NUMBER SAMPLES RECOMMENDED	REMOVAL COST ESTIMATE
SFA	Fire Proofing on Beams	268	3	
SPA	Veneer Plaster Ceiling and Walls	11000	7	\$143,000
SPB	Plaster Seal Coat	60	3	
SPC	Veneer Plaster Walls and Ceilings (1988)	2400	5	
TDA	Insulation on Vent Duct	150	3	
TJA	Mag Block Pipe Fitting	30	3	

INSPECTION PHASE I

CDB BUILDING NO./PROJECT NO.:

**B4300
910-010-010**

USER AGENCY:

Department of Mental Health/DD

USER LOCATION:

**(070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477 - Cook
County**

BUILDING NAME:

Neighborhood House - 300

INSPECTORS:

**Vahooman Mirkhaef (I-057)
Jay Fox (I-0471)**

HOMOGENEOUS AREA	DESCRIPTION	QUANTITY	NUMBER SAMPLES RECOMMENDED	REMOVAL COST ESTIMATE
MCA	1 X 1 Ceiling Tile	750	3	
MFA	1 X 1 Floor Tile and Mastic	1900	Assumed ACM	
MMA	Tape on Plaster Wall	30	3	
MMB	Fire Damper Insulation	15	Assumed ACM	
MMC	Exhaust Backdraft Damper Insulation	15	Assumed ACM	
MTA	Under Floor Duct Pipe Transite	300	Assumed ACM	

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.: B4300
901-010-010

USER AGENCY: Department of Mental Health

USER LOCATION: (070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477

BUILDING NAME: Neighborhood House No.: 3

INSPECTORS: Vahooman Mirkhaef
Jay Fox
David Sloman

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
MFA	1 X 1 Floor Tile and Mastic	X			
MMB	Insulation on Fire Damper	X			
MMC	Exhaust Back Draft Damper Insulation	X			
MTA	Transite Floor Duct	X			
SFA	Fire Proofing Insulation			5	
SPA	Veneer Plaster Ceiling and Walls			7	

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.:

**B4300
901-010-010**

USER AGENCY:

Department of Mental Health

USER LOCATION:

**(070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477**

BUILDING NAME:

Neighborhood House No.: 3

INSPECTORS:

**Vahooman Mirkhaef
Jay Fox
David Sloman**

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
SPB	Plaster Seal Coat			1	
SPC	Veneer Plaster Walls and Ceiling (1988)			7	
TDA	Vent Duct Insulation			3	
TJA	Cementitious Fittings on Fiberglass Pipe			3	
MCA	1 X 1 Ceiling Tile			3	
MMA	Seam Tape			3	

FORM 6 - SUMMARY OF FINDINGS

MANAGEMENT PLAN PHASE III

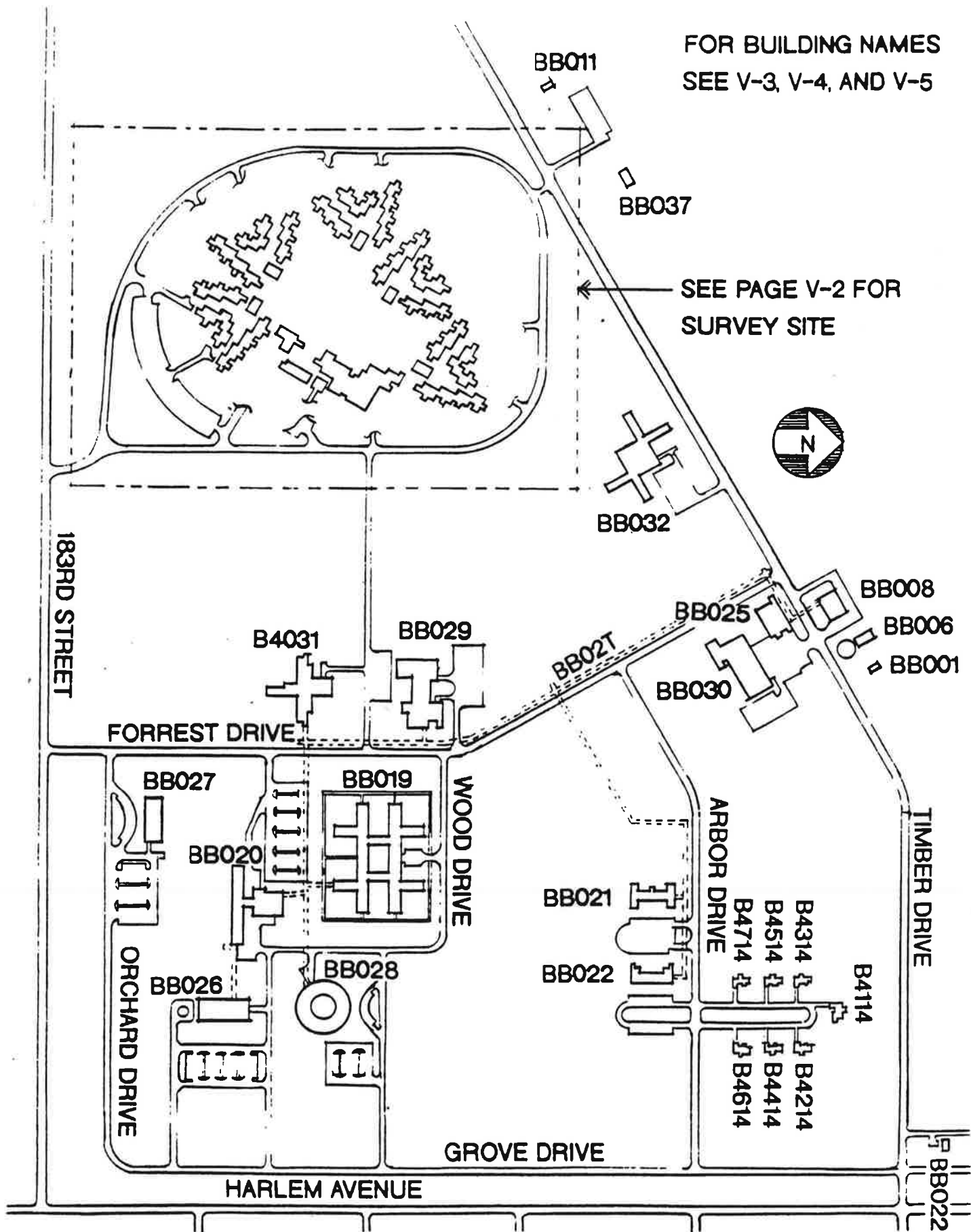
BUILDING NAME Neighborhood House 300

LIST IN ORDER OF RESPONSE ACTION NUMBER

C.D.B. BUILDING NUMBER B4300

HOMOGENEOUS AREA	MATERIAL DESCRIPTION	ACM CONTENT (%)				DAMAGE ASSESSMENT							RESPONSE ACTION	
		CHRYSTOTILE	AMOSITE	OTHER	ASSUMED ACM	NO DAMAGE	SALIENT DAMAGE	SIGNIFICANT DAMAGE	NO POTENTIAL DAMAGE	POTENTIAL DAMAGE	POTENTIAL SIGNIFICANT DAMAGE	NUMBER	DESCRIPTION	
													(I.E. REMOVE, REPAIR, ENCLOSE, ENCAPSULATE, OR O&M)	
MFA	1 x 1 Floor Tile and Mastic				X				X			8	O&M	
MMB	Insulation on Fire Damper				X				X			8	O&M	
MMC	Exhaust Back-Draft Damper Insulation				X				X			8	O&M	
MTA	Under Floor Duct Pipe (Transite)				X				X			8	O&M	

FOR BUILDING NAMES
SEE V-3, V-4, AND V-5



ASBESTOS MANAGEMENT PLAN REPORT

CDB PROJECT NUMBER - 910-010-010

HOWE MENTAL HEALTH CENTER
DEPARTMENT OF MENTAL HEALTH AND
DEVELOPMENTAL DISABILITIES
RESIDENCE UNITS 101, 102, 103 & 104
C.D.B. BUILDING #B4101, B4102, B4103 & B4104
7600 WEST 183RD STREET
TINLEY PARK, IL 60477

STATE OF ILLINOIS

CAPITAL DEVELOPMENT BOARD

SPRINGFIELD, ILLINOIS

BY:
FOX & FOX ARCHITECTS & ENGINEERS
330 SOUTH WELLS STREET
CHICAGO, IL 60606
(312) 427-5592

DATE: OCT. 10, 1994

DATE SIGNED: 10/26/94

EXP. DATE: 11/30/96

IDPH LICENSE: 100-0471

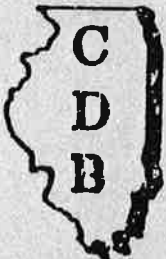


TABLE OF CONTENTS

CDB BUILDING NO.: B4101, B4102, B4103 & B4104
Residence Units 101, 102, 103 & 104

- I. Building Inventory
- II. Introduction
- III. Narrative Building Description
- IV. Summary of Findings
- V. Site Plan
- VI. Floor Plans
- VII. MFA - 1 x 1 Floor Tile and Mastic
- VIII. MMB - Fire Door - Wood
- IX. MMC - Fire Door - Metal
- X. MMD - Exhaust Back-Draft Damper Insulation
- XI. MME - Fire Damper Insulation
- XII. MTA - Under Floor Duct Pipe Transite
- XIII. MTB - Light Cover
- XIV. SFA - Fire Proofing on Beams
- XV. SPA - Veneer Plaster Ceiling and Walls
- XVI. SPB - Plaster Seal Coat
- XVII. SPC - Veneer Plaster Walls and Ceilings (1979)
- XVIII. SPD - Cement Plaster Walls Remodeled (1979)
- XIX. SPE - Gypsum Plaster Ceiling Remodeled (1979)
- XX. SPF - Veneer Plaster Walls and Ceilings (1989)
- XXI. TJA - Cementitious Pipe Fitting
- XXII. MMA - Tape

- XXIII. Cost Summary
- XXIV. Chain of Custody
- XXV. Licenses and Accreditations
- XXVI. Operation and Maintenance Plan

CAPITAL DEVELOPMENT BOARD BUILDING INVENTORY FORM 3

C.D.B. BUILDING NUMBER: B4101 **BUILDING NAME:** Residence Unit 101

USING AGENCY: 321 Dept. Of Mental Health/DD **LOCATION:** 070 Howe Development Center

BLDG. ADDRESS: 7600 West 183rd Street **CITY:** Tinley Park

ZIP: 60477 **COUNTY:** Cook **HOUSE/SENATE DISTRICT:** 037/19

YEAR CONSTRUCTED: 1974 **GROSS SQ. FT.:** 2,800 **TOTAL FLOORS:** 1 **FLOORS BELOW GRADE:** 0

USE OF BUILDING WHEN CONSTRUCTED(C): Health Care **CURRENT PRIMARY USE (P):** Health Care **CURRENT SECONDARY USE (S):** N/A

PREDOMINATE CONSTRUCTION TYPE: Brick

FOR USING AGENCY USE ONLY: _____

BUILDING NOTES: _____

(FOR C.D.B. USE ONLY)
ASBESTOS STATUS: _____

CAPITAL DEVELOPMENT BOARD BUILDING INVENTORY FORM 3

C.D.B.
BUILDING NUMBER: B4102 BUILDING NAME: Residence Unit 102

USING AGENCY: 321 Dept. Of Mental Health/DD LOCATION: 070 Howe Development Center

BLDG. ADDRESS: 7600 West 183rd Street CITY: Tinley Park

ZIP: 60477 COUNTY: Cook HOUSE/SENATE DISTRICT: 037/19

YEAR CONSTRUCTED: 1974 GROSS SQ. FT. 2,800 TOTAL FLOORS: 1 FLOORS BELOW GRADE: 0

USE OF BUILDING WHEN CONSTRUCTED(C): Health Care CURRENT PRIMARY USE (P): Health Care CURRENT SECONDARY USE (S): N/A

PREDOMINATE CONSTRUCTION TYPE: Brick

FOR USING AGENCY USE ONLY: _____

BUILDING NOTES: _____

(FOR C.D.B. USE ONLY)
ASBESTOS STATUS: _____

CAPITAL DEVELOPMENT BOARD BUILDING INVENTORY FORM 3

C.D.B.
BUILDING NUMBER: B4103 BUILDING NAME: Residence Unit 103

USING AGENCY: 321 Dept. Of Mental Health/DD LOCATION: 070 Howe Development Center

BLDG. ADDRESS: 7600 West 183rd Street CITY: Tinley Park

ZIP: 60477 COUNTY: Cook HOUSE/SENATE DISTRICT: 037/19

YEAR CONSTRUCTED: 1974 GROSS SQ. FT. 2,800 TOTAL FLOORS: 1 FLOORS BELOW GRADE: 0

USE OF BUILDING WHEN CONSTRUCTED(C): Health Care CURRENT PRIMARY USE (P): Health Care CURRENT SECONDARY USE (S): N/A

PREDOMINATE CONSTRUCTION TYPE: Brick

FOR USING AGENCY USE ONLY: _____

BUILDING NOTES: _____

(FOR C.D.B. USE ONLY)
ASBESTOS STATUS: _____

CAPITAL DEVELOPMENT BOARD BUILDING INVENTORY FORM 3

C.D.B.
BUILDING NUMBER: B4104 BUILDING NAME: Residence Unit 104

USING AGENCY: 321 Dept. Of Mental Health/DD LOCATION: 070 Howe Development Center

BLDG. ADDRESS: 7600 West 183rd Street CITY: Tinley Park

ZIP: 60477 COUNTY: Cook HOUSE/SENATE DISTRICT: 037/19

YEAR CONSTRUCTED: 1974 GROSS SQ. FT. 2,800 TOTAL FLOORS: 1 FLOORS BELOW GRADE: 0

USE OF BUILDING WHEN CONSTRUCTED(C): Health Care CURRENT PRIMARY USE (P): Health Care CURRENT SECONDARY USE (S): N/A

PREDOMINATE CONSTRUCTION TYPE: Brick

FOR USING AGENCY USE ONLY:

BUILDING NOTES:

(FOR C.D.B. USE ONLY)
ASBESTOS STATUS:

FORM 4

INTRODUCTION TO THE MANAGEMENT PLAN

A. Policy Statement

This Management Plan is intended to be a working document which will serve as a guide to staff, employees, occupants and visitors in minimizing the risk of exposure to asbestos fibers. The State of Illinois recognizes the serious health hazards associated with asbestos fibers. The State has conducted an inspection of this facility in order to determine whether asbestos is present, and if so, where the asbestos is located.

This Management Plan sets forth the recommended response actions for the ACM (asbestos containing material) within this facility. Further, where required, an Operations & Maintenance (O & M) Program has been established which will be implemented by facility staff.

This Plan has been reviewed by CDB, the Contracting Agency and the Using Agency and represents the policies and procedures to be implemented with respect to any ACM within this facility.

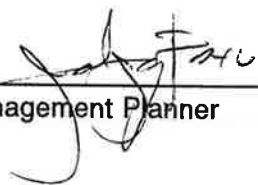
Dated: _____

Capital Development Board Representative

Dated: _____

Agency (Designated Person)

Dated: 10/20/94



Management Planner

The data linking asbestos exposure to mesothelioma is based upon many of the same epidemiological studies of workers that demonstrated an association between asbestos exposure and lung cancer. The findings are somewhat different than for lung cancer. Lower non-occupational exposures have also been associated with mesothelioma in addition to occupational exposure. Therefore, lower levels of exposure to asbestos as found in some non-occupational settings may give rise to mesothelioma. Secondly, the nature of the dose response relationship may be different from that of lung cancer. The risk continues to increase as the number of years since first exposure increases. In many cases, a latent period of more than 40 years has been described.

Gastrointestinal Cancer - Several of the epidemiological studies of workers occupationally exposed to asbestos have shown increased risks of gastrointestinal cancer including cancers of the colon, rectum, stomach and esophagus. The risk, however, does not appear to be as great as for lung cancer. To date, no association has been found between asbestos in drinking water and gastrointestinal cancer.

Asbestos Related Pleural Disease - This category of health effects includes fibrous and sometimes calcified plaques as well as diffuse thickening of the pleura and the pleural effusion. These are non-cancerous changes of the membranes surrounding the lungs and commonly occur many years after asbestos exposure. The presence of plaques suggests prior asbestos exposure but usually does not cause any symptoms or respiratory impairment.

Asbestosis - Asbestosis is a disabling lung disorder consisting of generalized scarring of the lungs which causes shortness of breath on exertion. Asbestosis has been described almost exclusively in workers with occupational exposure to high concentrations of asbestos-containing dusts. In asbestosis, there appears to be a very strong dose response relationship in that the greater the concentration of asbestos fibers, and the longer the duration of exposure, the greater the likelihood and severity of asbestosis.

As with the other asbestos related health effects, there is usually a time lag or latent period of several years before the development of disease. Once acquired, asbestosis tends to progress slowly, sometimes for years after asbestos exposure has ended.

CDB BUILDING NO.'S

B4101-B4102-B4103-B4104

The individual residential units were constructed in 1974 with common walls as a single building at the Howe Mental Health Facility. The exterior brick wall system was replaced in 1984 due to structural failure. The major remodeling work required replacement of interior plaster ceiling and walls.

The building is single story and has a combined square footage of 11200 square feet. There are no attics, crawlspace or basement.

The building is used to house patients for the Howe Mental Health Facility.

The exterior material is brick veneer with interior steel channels and studs supporting gypsum board and plaster. Steel columns and beams support bar joist and metal roof deck.

The roof is flat except for a sloped section near the front doors of the individual residential units. The roofs were replaced in 1988. The flat roof is constructed of a single ply roofing system on polyisocyanurate insulation. The pitched roof is steel construction.

The building is heated and cooled by a forced air system.

Under floor and overhead ducts supply air to all rooms in the residence. The HYAC systems appear in good working order. Hot water heaters in the mechanical rooms supply hot water to the building. The energy source for furnaces and hot water heaters is gas.

To the best of our knowledge there has not been any asbestos abatement in this building.

No asbestos was detected in any of the material sampled. Areas assumed to contain asbestos were not sampled and no determination of their content can be made. Any asbestos in this building would cause relatively little hazard.

SUMMARY OF FINDINGS

INSPECTION PHASE I

CDB BUILDING NO./PROJECT NO.: B4101-B4102-B4103-B4104
910-010-010

USER AGENCY: Department of Mental Health/DD

USER LOCATION: (070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477 - Cook
County

BUILDING NAME: Residence Unit 101-102-103-104

INSPECTORS: Vahooman Mirkhaef (I-057)
Jay Fox (I-0471)

HOMOGENEOUS AREA	DESCRIPTION	QUANTITY	NUMBER SAMPLES RECOMMENDED	REMOVAL COST ESTIMATE
SFA	Fire Proofing on Beams	1500	5	
SPA	Veneer Plaster Ceiling and Walls	44000	7	\$572,000
SPB	Plaster Seal Coat	240	3	
SPC	Veneer Plaster Walls and Ceilings (1984)	19000	7	\$247,000
SPD	Cement Plaster Walls Remodeled (1984)	1000	5	
SPE	Gypsum Plaster Ceiling Remodeled (1984)	1000	5	

INSPECTION PHASE I

CDB BUILDING NO./PROJECT NO.:

B4101-B4102-B4103-B4104
910-010-010

USER AGENCY:

Department of Mental Health/DD

USER LOCATION:

(070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477 - Cook
County

BUILDING NAME:

Residence Unit 101-102-103-104

INSPECTORS:

Vahooman Mirkhaef (I-057)
Jay Fox (I-0471)

HOMOGENEOUS AREA	DESCRIPTION	QUANTITY	NUMBER SAMPLES RECOMMENDED	REMOVAL COST ESTIMATE
SPF	Veneer Plaster Walls and Ceilings (1989)	60	3	
TJA	Mag Block Pipe Fitting	120	3	
MFA	1 X 1 Floor Tile and Mastic	9600	Assumed ACM	
MMA	Tape	300	3	
MMB	Fire Door - Wood Insulation	7	Assumed ACM	
MMC	Fire Door - Metal	12	Assumed ACM	

INSPECTION PHASE I

CDB BUILDING NO./PROJECT NO.:

**B4101-B4102-B4103-B4104
910-010-010**

USER AGENCY:

Department of Mental Health/DD

USER LOCATION:

**(070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477 - Cook
County**

BUILDING NAME:

Residence Unit 101-102-103-104

INSPECTORS:

**Vahooman Mirkhaef (I-057)
Jay Fox (I-0471)**

HOMOGENEOUS AREA	DESCRIPTION	QUANTITY	NUMBER SAMPLES RECOMMENDED	REMOVAL COST ESTIMATE
MMD	Exhaust Backdraft Damper Insulation	60	Assumed ACM	
MME	Fire Damper Insulation	60	Assumed ACM	
MTA	Under Floor Duct Pipe Transite	1200	Assumed ACM	
MTB	Light Cover	16	Assumed ACM	

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.:

**B4101-B4102-B4103-B4104
901-010-010**

USER AGENCY:

Department of Mental Health

USER LOCATION:

**(070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477**

BUILDING NAME:

Residence Unit 101-102-102-104

INSPECTORS:

**Jay Fox
Vahooman Mirkhaef
David Sloman**

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
MFA	1 X 1 Floor Tile and Mastic	X			
MMB	Fire Door	X			
MMC	Fire Door-Metal Insulation	X			
MMD	Exhaust Backdraft Damper Insulation	X			
MME	Fire Damper Insulation	X			
MTA	Under Floor Duct Pipe Transite	X			

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.: B4101-B4102-B4103-B4104
901-010-010

USER AGENCY: Department of Mental Health

USER LOCATION: (070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477

BUILDING NAME: Residence Unit 101-102-102-104

INSPECTORS: Jay Fox
Vahooman Mirkhaef
David Sloman

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
MTB	Light Cover	X			
SFA	Fire Proofing on Beams			7	
SPA	Veneer Plaster Ceiling and Walls			7	
SPB	Plaster Seal Coat			5	
SPC	Veneer Plaster Walls and Ceilings			7	
SPD	Cement Plaster Walls Remodeled			7	

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.: B4101-B4102-B4103-B4104
901-010-010

USER AGENCY: Department of Mental Health

USER LOCATION: (070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477

BUILDING NAME: Residence Unit 101-102-102-104

INSPECTORS: Jay Fox
Vahooman Mirkhaef
David Sloman

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
SPE	Gypsum Plaster Ceiling Remodeled			7	
SPF	Veneer Plaster Walls and Ceilings (1989)			3	
TJA	Cementitious Pipe Fitting			3	
MMA	Tape			3	

FORM 6 SUMMARY OF FINDINGS

MANAGEMENT PLAN PHASE III

LIST IN ORDER OF RESPONSE ACTION NUMBER

BUILDING NAME Residence Units 101, 102, 103 & 104

C.D.B. BUILDING NUMBER B4101, B4102, B4103 & B4104

HOMOGENEOUS AREA	MATERIAL DESCRIPTION	ACM CONTENT (%)				DAMAGE ASSESSMENT							RESPONSE ACTION
		CHRYBOTILE	AMOSITE	OTHER	ASSUMED ACM	NO DAMAGE SALIENT DAMAGE	SIGNIFICANT DAMAGE	NO POTENTIAL DAMAGE	POTENTIAL DAMAGE	POTENTIAL SIGNIFICANT DAMAGE	NUMBER	DESCRIPTION (I.E. REMOVE, REPAIR, ENCLOSE, ENCAPSULATE, OR O&M)	
MFA	1 x 1 Floor Tile and Mastic				X							8	O&M
MMB	Wood Fire Door Insulation				X							8	O&M
MMC	Metal Fire Door Insulation				X							8	O&M
MMD	Insulation at Back-Draft Dampers				X							8	O&M
MME	Insulation at Fire Dampers				X							8	O&M
MTA	Under Floor Duct (Transite)				X							8	O&M
MTB	Transite Light Covers				X							8	O&M

ASBESTOS MANAGEMENT PLAN REPORT

CDB PROJECT NUMBER - 910-010-010

HOWE MENTAL HEALTH CENTER
DEPARTMENT OF MENTAL HEALTH AND
DEVELOPMENTAL DISABILITIES
RESIDENCE UNITS 105, 106 & 107
C.D.B. BUILDING #B4105, B4106 & B4107
7600 WEST 183RD STREET
TINLEY PARK, IL 60477

STATE OF ILLINOIS

CAPITAL DEVELOPMENT BOARD

SPRINGFIELD, ILLINOIS

BY:
FOX & FOX ARCHITECTS & ENGINEERS
330 SOUTH WELLS STREET
CHICAGO, IL 60606
(312) 427-5592

DATE: OCT. 10, 1994

DATE SIGNED: 10/26/94

EXP. DATE: 11/30/96

IDPH LICENSE: 100-0471

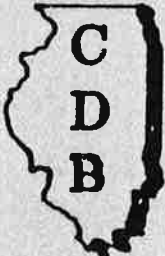


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- VI. Floor Plans
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- IX. MMC - Fire Door - Metal
- X. MMD - Exhaust Back-Draft Damper Insulation
- XI. MME - Fire Damper Insulation
- XII. MTA - Under Floor Duct Pipe Transite
- XIII. MTB - Light Cover
- XIV. SFA - Fire Proofing on Beams
- XV. SPA - Veneer Plaster Ceiling and Walls
- XVI. SPB - Plaster Seal Coat
- XVII. SPC - Veneer Plaster Walls and Ceilings (1979)
- XVIII. SPD - Cement Plaster Walls Remodeled (1979)
- XIX. SPE - Gypsum Plaster Ceiling Remodeled (1979)
- XX. SPF - Veneer Plaster Walls and Ceilings (1989)
- XXI. TJA - Cementitious Pipe Fitting
- XXII. MMA - Tape

- XXIII. Cost Summary
- XXIV. Chain of Custody
- XXV. Licenses and Accreditations
- XXVI. Operation and Maintenance Plan

CAPITAL DEVELOPMENT BOARD BUILDING INVENTORY FORM 3

C.D.B. BUILDING NUMBER: B4105 BUILDING NAME: Residence Unit105

USING AGENCY: 321 Dept. Of Mental Health/DH LOCATION: 070 Howe DeveLopment Center

BLDG. ADDRESS: 7600 West 183rd Street CITY: Tinley Park

ZIP: 60477 COUNTY: Cook HOUSE/SENATE DISTRICT: 037/19

YEAR CONSTRUCTED: 1974 GROSS SQ. FT. 2,800 TOTAL FLOORS: 1 FLOORS BELOW GRADE: 0

USE OF BUILDING WHEN CONSTRUCTED(C): Health Care CURRENT PRIMARY USE (P): Health Care CURRENT SECONDARY USE (S): N/A

PREDOMINATE CONSTRUCTION TYPE: Brick

FOR USING AGENCY USE ONLY: _____

BUILDING NOTES: _____

(FOR C.D.B. USE ONLY) ASBESTOS STATUS: _____

CAPITAL DEVELOPMENT BOARD BUILDING INVENTORY FORM 3

C.D.B. BUILDING NUMBER: B4106 BUILDING NAME: Residence Unit 106

USING AGENCY: 321 Dept. Of Mental Health/DD LOCATION: 070 Howe Development Center

BLDG. ADDRESS: 7600 West 183rd Street CITY: Tinley Park

ZIP: 60477 COUNTY: Cook HOUSE/SENATE DISTRICT: 037/19

YEAR CONSTRUCTED: 1974 GROSS SQ. FT. 2,800 TOTAL FLOORS: 1 FLOORS BELOW GRADE: 0

USE OF BUILDING WHEN CONSTRUCTED(C): Health Care CURRENT PRIMARY USE (P): Health Care CURRENT SECONDARY USE (S): N/A

PREDOMINATE CONSTRUCTION TYPE: Brick

FOR USING AGENCY USE ONLY: _____

BUILDING NOTES: _____

(FOR C.D.B. USE ONLY) ASBESTOS STATUS: _____

CAPITAL DEVELOPMENT BOARD BUILDING INVENTORY FORM 3

C.D.B. BUILDING NUMBER: B4107 BUILDING NAME: Residence Unit 107

USING AGENCY: 321 Dept. Of Mental Health/DD LOCATION: 070 Howe Development Center

BLDG. ADDRESS: 7600 West 183rd Street CITY: Tinley Park

ZIP: 60477 COUNTY: Cook HOUSE/SENATE DISTRICT: 037/19

YEAR CONSTRUCTED: 1974 GROSS SQ. FT. 2,800 TOTAL FLOORS: 1 FLOORS BELOW GRADE: 0

USE OF BUILDING WHEN CONSTRUCTED(C): Health Care CURRENT PRIMARY USE (P): Health Care CURRENT SECONDARY USE (S): N/A

PREDOMINATE CONSTRUCTION TYPE: Brick

FOR USING AGENCY USE ONLY: _____

BUILDING NOTES: _____

(FOR C.D.B. USE ONLY) ASBESTOS STATUS: _____

FORM 4

INTRODUCTION TO THE MANAGEMENT PLAN

A. Policy Statement

This Management Plan is intended to be a working document which will serve as a guide to staff, employees, occupants and visitors in minimizing the risk of exposure to asbestos fibers. The State of Illinois recognizes the serious health hazards associated with asbestos fibers. The State has conducted an inspection of this facility in order to determine whether asbestos is present, and if so, where the asbestos is located.

This Management Plan sets forth the recommended response actions for the ACM (asbestos containing material) within this facility. Further, where required, an Operations & Maintenance (O & M) Program has been established which will be implemented by facility staff.

This Plan has been reviewed by CDB, the Contracting Agency and the Using Agency and represents the policies and procedures to be implemented with respect to any ACM within this facility.

Dated: _____

Capital Development Board Representative

Dated: _____

Agency (Designated Person)

Dated: 10/20/94



Management Planner

The data linking asbestos exposure to mesothelioma is based upon many of the same epidemiological studies of workers that demonstrated an association between asbestos exposure and lung cancer. The findings are somewhat different than for lung cancer. Lower non-occupational exposures have also been associated with mesothelioma in addition to occupational exposure. Therefore, lower levels of exposure to asbestos as found in some non-occupational settings may give rise to mesothelioma. Secondly, the nature of the dose response relationship may be different from that of lung cancer. The risk continues to increase as the number of years since first exposure increases. In many cases, a latent period of more than 40 years has been described.

Gastrointestinal Cancer - Several of the epidemiological studies of workers occupationally exposed to asbestos have shown increased risks of gastrointestinal cancer including cancers of the colon, rectum, stomach and esophagus. The risk, however, does not appear to be as great as for lung cancer. To date, no association has been found between asbestos in drinking water and gastrointestinal cancer.

Asbestos Related Pleural Disease - This category of health effects includes fibrous and sometimes calcified plaques as well as diffuse thickening of the pleura and the pleural effusion. These are non-cancerous changes of the membranes surrounding the lungs and commonly occur many years after asbestos exposure. The presence of plaques suggests prior asbestos exposure but usually does not cause any symptoms or respiratory impairment.

Asbestosis - Asbestosis is a disabling lung disorder consisting of generalized scarring of the lungs which causes shortness of breath on exertion. Asbestosis has been described almost exclusively in workers with occupational exposure to high concentrations of asbestos-containing dusts. In asbestosis, there appears to be a very strong dose response relationship in that the greater the concentration of asbestos fibers, and the longer the duration of exposure, the greater the likelihood and severity of asbestosis.

As with the other asbestos related health effects, there is usually a time lag or latent period of several years before the development of disease. Once acquired, asbestosis tends to progress slowly, sometimes for years after asbestos exposure has ended.

CDB BUILDING NO.'S

B4105-B4106-B4107

The individual residential units were constructed in 1974 with common walls as a single building at the Howe Mental Health Facility. The exterior brick wall system was replaced in 1984 due to structural failure. The major remodeling work required replacement of interior plaster ceiling and walls.

The building is single story and has a combined square footage of 8400 square feet. There are no attics, crawlspace or basement.

The building is used to house patients for the Howe Mental Health Facility.

The exterior material is brick veneer with interior steel channels and studs supporting gypsum board and plaster. Steel columns and beams support bar joist and metal roof deck.

The roof is flat except for a sloped section near the front doors of the individual residential units. The roofs were replaced in 1988. The flat roof is constructed of a single ply roofing system on polyisocyanurate insulation. The pitched roof is steel construction.

The building is heated and cooled by a forced air system.

Under floor and overhead ducts supply air to all rooms in the residence. The HVAC systems appear in good working order. Hot water heaters in the mechanical rooms supply hot water to the building. The energy source for furnaces and hot water heaters is gas.

To the best of our knowledge there has not been any asbestos abatement in this building.

No asbestos was detected in any of the material sampled. Areas assumed to contain asbestos were not sampled and no determination of their content can be made. Any asbestos in this building would cause relatively little hazard.

SUMMARY OF FINDINGS

INSPECTION PHASE I

CDB BUILDING NO./PROJECT NO.: B4105-B4106-B4107
 910-010-010

USER AGENCY: Department of Mental Health/DD

USER LOCATION: (070) Howe Mental Health Center
 7600 W. 183rd Street
 Tinley Park, Illinois 60477 - Cook
 County

BUILDING NAME: Residence Unit 105-106-107

INSPECTORS: Vahooman Mirkhaef (I-057)
 Jay Fox (I-0471)

HOMOGENEOUS AREA	DESCRIPTION	QUANTITY	NUMBER SAMPLES RECOMMENDED	REMOVAL COST ESTIMATE
SFA	Fire Proofing on Beams	1125	5	
SPA	Veneer Plaster Ceiling and Walls	33000	7	\$429,000
SPB	Plaster Seal Coat	180	3	
SPC	Veneer Plaster Walls and Ceilings (1984)	14250	7	\$185,250
SPD	Cement Plaster Walls Remodeled (1984)	750	3	
SPE	Gypsum Plaster Ceiling Remodeled (1984)	750	3	

INSPECTION PHASE I

CDB BUILDING NO./PROJECT NO.:

**B4105-B4106-B4107
910-010-010**

USER AGENCY:

Department of Mental Health/DD

USER LOCATION:

**(070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477 - Cook
County**

BUILDING NAME:

Residence Unit 105-106-107

INSPECTORS:

**Vahooman Mirkhaef (I-057)
Jay Fox (I-0471)**

HOMOGENEOUS AREA	DESCRIPTION	QUANTITY	NUMBER SAMPLES RECOMMENDED	REMOVAL COST ESTIMATE
SPF	Veneer Plaster Walls and Ceilings (1989)	45	3	
TJA	Mag Block Pipe Fitting	90	3	
MFA	1 X 1 Floor Tile and Mastic	7200	Assumed ACM	
MMA	Tape	225	3	
MMB	Fire Door - Wood Insulation	5	Assumed ACM	
MMC	Fire Door - Metal	9	Assumed ACM	

INSPECTION PHASE I

CDB BUILDING NO./PROJECT NO.:

**B4105-B4106-B4107
910-010-010**

USER AGENCY:

Department of Mental Health/DD

USER LOCATION:

**(070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477 - Cook
County**

BUILDING NAME:

Residence Unit 105-106-107

INSPECTORS:

**Vahooman Mirkhaef (I-057)
Jay Fox (I-0471)**

HOMOGENEOUS AREA	DESCRIPTION	QUANTITY	NUMBER SAMPLES RECOMMENDED	REMOVAL COST ESTIMATE
MMD	Exhaust Backdraft Damper Insulation	45	Assumed ACM	
MME	Fire Damper Insulation	45	Assumed ACM	
MTA	Under Floor Duct Pipe Transite	900	Assumed ACM	
MTB	Light Cover	12	Assumed ACM	

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.: B4105-B4106-B4107
901-010-010

USER AGENCY: Department of Mental Health

USER LOCATION: (070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477

BUILDING NAME: Residence Unit 105-106-107

INSPECTORS: Jay Fox
Vahooman Mirkhaef

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
MFA	1 X 1 Floor Tile and Mastic	X			
MMB	Fire Door - Wood Insulation	X			
MMC	Fire Door - Metal	X			
MMD	Exhaust Backdraft Damper Insulation	X			
MME	Fire Damper Insulation	X			

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.:

**B4105-B4106-B4107
901-010-010**

USER AGENCY:

Department of Mental Health

USER LOCATION:

**(070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477**

BUILDING NAME:

Residence Unit 105-106-107

INSPECTORS:

**Jay Fox
Vahooman Mirkhaef**

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
MTA	Under Floor Duct Pipe Transite	X			
MTB	Light Cover	X			
SFA	Fire Proofing on Beams			7	
SPA	Veneer Plaster Ceiling and Walls			7	
SPB	Plaster Seal Coat			5	
SPC	Veneer Plaster Walls and Ceilings (1984)			7	

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.: B4105-B4106-B4107
901-010-010

USER AGENCY: Department of Mental Health

USER LOCATION: (070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477

BUILDING NAME: Residence Unit 105-106-107

INSPECTORS: Jay Fox
Vahooman Mirkhaef

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
SPD	Cement Plaster Walls Remodeled (1984)			7	
SPE	Gypsum Plaster Ceiling Remodeled (1984)			7	
SPF	Veneer Plaster Walls and Ceilings (1989)			3	
TJA	Cementitious Pipe Fitting			3	
MMA	Tape			3	

HOMOGENEOUS AREA	MATERIAL DESCRIPTION	ACM CONTENT (%)			DAMAGE ASSESSMENT							RESPONSE ACTION		
		CHRYSO TILE	AMOSITE	OTHER	ASSUMED ACM	NO DAMAGE	SALENT	DAMAGE	SIGNIFICANT DAMAGE	NO POTENTIAL DAMAGE	POTENTIAL DAMAGE		POTENTIAL SIGNIFICANT DAMAGE	NUMBER
MFA	1 x 1 Floor Tile and Mastic				X X X								8	O&M
MMB	Wood Fire Door Insulation				X X X								8	O&M
MMC	Metal Fire Door Insulation				X X X								8	O&M
MMD	Insulation at Back-Draft Dampers				X X X								8	O&M
MME	Insulation at Fire Dampers				X X X								8	O&M
MMA	Under Floor Duct (Transite)				X X X								8	O&M
MTB	Transite Light Covers				X X X								8	O&M

SUMMARY OF FINDINGS

INSPECTION PHASE I

CDB BUILDING NO./PROJECT NO.: B4105-B4106-B4107
910-010-010

USER AGENCY: Department of Mental Health/DD

USER LOCATION: (070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477 - Cook
County

BUILDING NAME: Residence Unit 105-106-107

INSPECTORS: Vahooman Mirkhaef (I-057)
Jay Fox (I-0471)

HOMOGENEOUS AREA	DESCRIPTION	QUANTITY	NUMBER SAMPLES RECOMMENDED	REMOVAL COST ESTIMATE
SFA	Fire Proofing on Beams	1125	5	
SPA	Veneer Plaster Ceiling and Walls	33000	7	\$429,000
SPB	Plaster Seal Coat	180	3	
SPC	Veneer Plaster Walls and Ceilings (1984)	14250	7	\$185,250
SPD	Cement Plaster Walls Remodeled (1984)	750	3	
SPE	Gypsum Plaster Ceiling Remodeled (1984)	750	3	

INSPECTION PHASE I

CDB BUILDING NO./PROJECT NO.:

**B4105-B4106-B4107
910-010-010**

USER AGENCY:

Department of Mental Health/DD

USER LOCATION:

**(070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477 - Cook
County**

BUILDING NAME:

Residence Unit 105-106-107

INSPECTORS:

**Vahooman Mirkhaef (I-057)
Jay Fox (I-0471)**

HOMOGENEOUS AREA	DESCRIPTION	QUANTITY	NUMBER SAMPLES RECOMMENDED	REMOVAL COST ESTIMATE
SPF	Veneer Plaster Walls and Ceilings (1989)	45	3	
TJA	Mag Block Pipe Fitting	90	3	
MFA	1 X 1 Floor Tile and Mastic	7200	Assumed ACM	
MMA	Tape	225	3	
MMB	Fire Door - Wood Insulation	5	Assumed ACM	
MMC	Fire Door - Metal	9	Assumed ACM	

INSPECTION PHASE I

CDB BUILDING NO./PROJECT NO.:

**B4105-B4106-B4107
910-010-010**

USER AGENCY:

Department of Mental Health/DD

USER LOCATION:

**(070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477 - Cook
County**

BUILDING NAME:

Residence Unit 105-106-107

INSPECTORS:

**Vahooman Mirkhaef (I-057)
Jay Fox (I-0471)**

HOMOGENEOUS AREA	DESCRIPTION	QUANTITY	NUMBER SAMPLES RECOMMENDED	REMOVAL COST ESTIMATE
MMD	Exhaust Backdraft Damper Insulation	45	Assumed ACM	
MME	Fire Damper Insulation	45	Assumed ACM	
MTA	Under Floor Duct Pipe Transite	900	Assumed ACM	
MTB	Light Cover	12	Assumed ACM	

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.: B4105-B4106-B4107
901-010-010

USER AGENCY: Department of Mental Health

USER LOCATION: (070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477

BUILDING NAME: Residence Unit 105-106-107

INSPECTORS: Jay Fox
Vahooman Mirkhaef

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
MFA	1 X 1 Floor Tile and Mastic	X			
MMB	Fire Door - Wood Insulation	X			
MMC	Fire Door - Metal	X			
MMD	Exhaust Backdraft Damper Insulation	X			
MME	Fire Damper Insulation	X			

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.:

**B4105-B4106-B4107
901-010-010**

USER AGENCY:

Department of Mental Health

USER LOCATION:

**(070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477**

BUILDING NAME:

Residence Unit 105-106-107

INSPECTORS:

**Jay Fox
Vahooman Mirkhaef**

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
MTA	Under Floor Duct Pipe Transite	X			
MTB	Light Cover	X			
SFA	Fire Proofing on Beams			7	
SPA	Veneer Plaster Ceiling and Walls			7	
SPB	Plaster Seal Coat			5	
SPC	Veneer Plaster Walls and Ceilings (1984)			7	

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.: B4105-B4106-B4107
901-010-010

USER AGENCY: Department of Mental Health

USER LOCATION: (070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477

BUILDING NAME: Residence Unit 105-106-107

INSPECTORS: Jay Fox
Vahooman Mirkhaef

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
SPD	Cement Plaster Walls Remodeled (1984)			7	
SPE	Gypsum Plaster Ceiling Remodeled (1984)			7	
SPF	Veneer Plaster Walls and Ceilings (1989)			3	
TJA	Cementitious Pipe Fitting			3	
MMA	Tape			3	

HOMOGENEOUS AREA	MATERIAL DESCRIPTION	ACM CONTENT (%)			DAMAGE ASSESSMENT							RESPONSE ACTION	DESCRIPTION (I.E. REMOVE, REPAIR, ENCLOSE, ENCAPSULATE, OR O&M)			
		CHRYSOTILE	AMOSITE	OTHER	ASSUMED ACM	NO DAMAGE	SALIENT	DAMAGE	SIGNIFICANT DAMAGE	NO POTENTIAL DAMAGE	POTENTIAL DAMAGE			POTENTIAL SIGNIFICANT DAMAGE	NUMBER	
MFA	1 x 1 Floor Tile and Mastic				X									8	O&M	
MMB	Wood Fire Door Insulation				X									8	O&M	
MMC	Metal Fire Door Insulation				X									8	O&M	
MMD	Insulation at Back-Draft Dampers				X									8	O&M	
MME	Insulation at Fire Dampers				X									8	O&M	
MTA	Under Floor Duct (Transite)				X									8	O&M	
MTB	Transite Light Covers				X									8	O&M	

ASBESTOS MANAGEMENT PLAN REPORT

CDB PROJECT NUMBER - 910-010-010

HOWE MENTAL HEALTH CENTER
DEPARTMENT OF MENTAL HEALTH AND
DEVELOPMENTAL DISABILITIES
RESIDENCE UNITS 108, 109 & 110
C.D.B. BUILDING #B4108, B4109 & B4110
7600 WEST 183RD STREET
TINLEY PARK, IL 60477

STATE OF ILLINOIS

CAPITAL DEVELOPMENT BOARD

SPRINGFIELD, ILLINOIS

BY:
FOX & FOX ARCHITECTS & ENGINEERS
330 SOUTH WELLS STREET
CHICAGO, IL 60606
(312) 427-5592

DATE: OCT. 10, 1994

DATE SIGNED: 10/26/94

EXP. DATE: 11/30/96

IDPH LICENSE: 100-0471

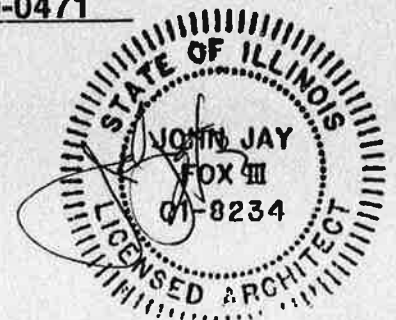
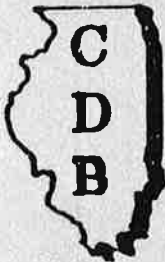


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Residence Units 108, 109 & 110

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- II. Introduction
- III. Narrative Building Description
- IV. Summary of Findings
- V. Site Plan
- VI. Floor Plans
- VII. MFA - 1 x 1 Floor Tile and Mastic
- VIII. MMB - Fire Door - Wood Insulation
- IX. MMC - Fire Door - Metal
- X. MMD - Exhaust Back-Draft Damper Insulation
- XI. MME - Fire Damper Insulation
- XII. MTA - Under Floor Duct Pipe Transite
- XIII. MTB - Light Cover
- XIV. SFA - Fire Proofing on Beams
- XV. SPA - Veneer Plaster Ceiling and Walls
- XVI. SPB - Plaster Seal Coat
- XVII. SPC - Veneer Plaster Walls and Ceilings (1979)
- XVIII. SPD - Cement Plaster Walls Remodeled (1979)
- XIX. SPE - Gypsum Plaster Ceiling Remodeled (1979)
- XX. SPF - Veneer Plaster Walls and Ceilings (1989)
- XXI. TJA - Cementitious Pipe Fitting
- XXII. MMA - Tape

- XXIII. Cost Summary
- XXIV. Chain of Custody
- XXV. Licenses and Accreditations
- XXVI. Operation and Maintenance Plan

CAPITAL DEVELOPMENT BOARD BUILDING INVENTORY FORM 3

C.D.B. BUILDING NUMBER: B4108 BUILDING NAME: Residence Unit108

USING AGENCY: 321 Dept. Of Mental Health/DD LOCATION: 070 Howe Development Center

BLDG. ADDRESS: 7600 West 183rd Street CITY: Tinley Park

ZIP: 60477 COUNTY: Cook HOUSE/SENATE DISTRICT: 037/19

YEAR CONSTRUCTED: 1974 GROSS SQ. FT. 2,800 TOTAL FLOORS: 1 FLOORS BELOW GRADE: 0

USE OF BUILDING WHEN CONSTRUCTED(C): Health Care CURRENT PRIMARY USE (P): Health Care CURRENT SECONDARY USE (S): N/A

PREDOMINATE CONSTRUCTION TYPE: Brick

FOR USING AGENCY USE ONLY: _____

BUILDING NOTES: _____

(FOR C.D.B. USE ONLY) ASBESTOS STATUS: _____

CAPITAL DEVELOPMENT BOARD BUILDING INVENTORY FORM 3

C.D.B. BUILDING NUMBER: B4109 BUILDING NAME: Residence Unit 109

USING AGENCY: 321 Dept. Of Mental Health/DD LOCATION: 070 Howe Development Center

BLDG. ADDRESS: 7600 West 183rd Street CITY: Tinley Park

ZIP: 60477 COUNTY: Cook HOUSE/SENATE DISTRICT: 037/19

YEAR CONSTRUCTED: 1974 GROSS SQ. FT. 2,800 TOTAL FLOORS: 1 FLOORS BELOW GRADE: 0

USE OF BUILDING WHEN CONSTRUCTED(C): Health Care CURRENT PRIMARY USE (P): Health Care CURRENT SECONDARY USE (S): N/A

PREDOMINATE CONSTRUCTION TYPE: Brick

FOR USING AGENCY USE ONLY: _____

BUILDING NOTES: _____

(FOR C.D.B. USE ONLY) ASBESTOS STATUS: _____

CAPITAL DEVELOPMENT BOARD BUILDING INVENTORY FORM 3

C.D.B. BUILDING NUMBER: B4110 BUILDING NAME: Residence Unit 110

USING AGENCY: 321 Dept. Of Mental Health/DD LOCATION: 070 Howe Development Center

BLDG. ADDRESS: 7600 West 183rd Street CITY: Tinley Park

ZIP: 60477 COUNTY: Cook HOUSE/SENATE DISTRICT: 037/19

YEAR CONSTRUCTED: 1974 GROSS SQ. FT. 2,800 TOTAL FLOORS: 1 FLOORS BELOW GRADE: 0

USE OF BUILDING WHEN CONSTRUCTED(C): Health Care CURRENT PRIMARY USE (P): Health Care CURRENT SECONDARY USE (S): N/A

PREDOMINATE CONSTRUCTION TYPE: Brick

FOR USING AGENCY USE ONLY: _____

BUILDING NOTES: _____

(FOR C.D.B. USE ONLY) ASBESTOS STATUS: _____

FORM 4

INTRODUCTION TO THE MANAGEMENT PLAN

A. Policy Statement

This Management Plan is intended to be a working document which will serve as a guide to staff, employees, occupants and visitors in minimizing the risk of exposure to asbestos fibers. The State of Illinois recognizes the serious health hazards associated with asbestos fibers. The State has conducted an inspection of this facility in order to determine whether asbestos is present, and if so, where the asbestos is located.

This Management Plan sets forth the recommended response actions for the ACM (asbestos containing material) within this facility. Further, where required, an Operations & Maintenance (O & M) Program has been established which will be implemented by facility staff.

This Plan has been reviewed by CDB, the Contracting Agency and the Using Agency and represents the policies and procedures to be implemented with respect to any ACM within this facility.


Dated: _____

Capital Development Board Representative

Dated: _____

Agency (Designated Person)

Dated: 10/26/94



Management Planner

The data linking asbestos exposure to mesothelioma is based upon many of the same epidemiological studies of workers that demonstrated an association between asbestos exposure and lung cancer. The findings are somewhat different than for lung cancer. Lower non-occupational exposures have also been associated with mesothelioma in addition to occupational exposure. Therefore, lower levels of exposure to asbestos as found in some non-occupational settings may give rise to mesothelioma. Secondly, the nature of the dose response relationship may be different from that of lung cancer. The risk continues to increase as the number of years since first exposure increases. In many cases, a latent period of more than 40 years has been described.

Gastrointestinal Cancer - Several of the epidemiological studies of workers occupationally exposed to asbestos have shown increased risks of gastrointestinal cancer including cancers of the colon, rectum, stomach and esophagus. The risk, however, does not appear to be as great as for lung cancer. To date, no association has been found between asbestos in drinking water and gastrointestinal cancer.

Asbestos Related Pleural Disease - This category of health effects includes fibrous and sometimes calcified plaques as well as diffuse thickening of the pleura and the pleural effusion. These are non-cancerous changes of the membranes surrounding the lungs and commonly occur many years after asbestos exposure. The presence of plaques suggests prior asbestos exposure but usually does not cause any symptoms or respiratory impairment.

Asbestosis - Asbestosis is a disabling lung disorder consisting of generalized scarring of the lungs which causes shortness of breath on exertion. Asbestosis has been described almost exclusively in workers with occupational exposure to high concentrations of asbestos-containing dusts. In asbestosis, there appears to be a very strong dose response relationship in that the greater the concentration of asbestos fibers, and the longer the duration of exposure, the greater the likelihood and severity of asbestosis.

As with the other asbestos related health effects, there is usually a time lag or latent period of several years before the development of disease. Once acquired, asbestosis tends to progress slowly, sometimes for years after asbestos exposure has ended.

CDB BUILDING NO.'S

B4108-B4109-B4110

The individual residential units were constructed in 1974 with common walls as a single building at the Howe Mental Health Facility. The exterior brick wall system was replaced in 1984 due to structural failure. The major remodeling work required replacement of interior plaster ceiling and walls.

The building is single story and has a combined square footage of 8400 square feet. There are no attics, crawlspace or basement.

The building is used to house patients for the Howe Mental Health Facility.

The exterior material is brick veneer with interior steel channels and studs supporting gypsum board and plaster. Steel columns and beams support bar joist and metal roof deck.

The roof is flat except for a sloped section near the front doors of the individual residential units. The roofs were replaced in 1988. The flat roof is constructed of a single ply roofing system on polyisocyanurate insulation. The pitched roof is steel construction.

The building is heated and cooled by a forced air system.

Under floor and overhead ducts supply air to all rooms in the residence. The HVAC systems appear in good working order. Hot water heaters in the mechanical rooms supply hot water to the building. The energy source for furnaces and hot water heaters is gas.

To the best of our knowledge there has not been any asbestos abatement in this building.

No asbestos was detected in any of the material sampled. Areas assumed to contain asbestos were not sampled and no determination of their content can be made. Any asbestos in this building would cause relatively little hazard.

SUMMARY OF FINDINGS

INSPECTION PHASE I

CDB BUILDING NO./PROJECT NO.: B4108-B4109-B4110
910-010-010

USER AGENCY: Department of Mental Health/DD

USER LOCATION: (070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477 - Cook
County

BUILDING NAME: Residence Unit 108-109-110

INSPECTORS: Vahooman Mirkhaef (I-057)
Jay Fox (I-0471)

HOMOGENEOUS AREA	DESCRIPTION	QUANTITY	NUMBER SAMPLES RECOMMENDED	REMOVAL COST ESTIMATE
SFA	Fire Proofing on Beams	1125	5	
SPA	Veneer Plaster Ceiling and Walls	33000	7	\$429,000
SPB	Plaster Seal Coat	180	3	
SPC	Veneer Plaster Walls and Ceilings (1984)	14250	7	\$185,250
SPD	Cement Plaster Walls Remodeled (1984)	750	3	
SPE	Gypsum Plaster Ceiling Remodeled (1984)	750	3	

INSPECTION PHASE I

CDB BUILDING NO./PROJECT NO.:

**B4108-B4109-B4110
910-010-010**

USER AGENCY:

Department of Mental Health/DD

USER LOCATION:

**(070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477 - Cook
County**

BUILDING NAME:

Residence Unit 108-109-110

INSPECTORS:

**Vahooman Mirkhaef (I-057)
Jay Fox (I-0471)**

HOMOGENEOUS AREA	DESCRIPTION	QUANTITY	NUMBER SAMPLES RECOMMENDED	REMOVAL COST ESTIMATE
SPF	Veneer Plaster Walls and Ceilings (1989)	45	3	
TJA	Mag Block Pipe Fitting	90	3	
MFA	1 X 1 Floor Tile and Mastic	7200	Assumed ACM	
MMA	Tape	225	3	
MMB	Fire Door - Wood Insulation	5	Assumed ACM	
MMC	Fire Door - Metal	9	Assumed ACM	

INSPECTION PHASE I

CDB BUILDING NO./PROJECT NO.:

**B4108-B4109-B4110
910-010-010**

USER AGENCY:

Department of Mental Health/DD

USER LOCATION:

**(070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477 - Cook
County**

BUILDING NAME:

Residence Unit 108-109-110

INSPECTORS:

**Vahooman Mirkhaef (I-057)
Jay Fox (I-0471)**

HOMOGENEOUS AREA	DESCRIPTION	QUANTITY	NUMBER SAMPLES RECOMMENDED	REMOVAL COST ESTIMATE
MMD	Exhaust Backdraft Damper Insulation	45	Assumed ACM	
MME	Fire Damper Insulation	45	Assumed ACM	
MTA	Under Floor Duct Pipe Transite	900	Assumed ACM	
MTB	Light Cover	12	Assumed ACM	

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.: B4108-B4109-B4110
901-010-010

USER AGENCY: Department of Mental Health

USER LOCATION: (070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477

BUILDING NAME: Residence Unit 108-109-110

INSPECTORS: Jay Fox
Vahooman Mirkhaef

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
MFA	1 X 1 Floor Tile and Mastic	X			
MMB	Fire Door - Wood Insulation	X			
MMC	Fire Door - Metal	X			
MMD	Exhaust Backdraft Damper Insulation	X			
MME	Fire Damper Insulation	X			

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.:

**B4108-B4109-B4110
901-010-010**

USER AGENCY:

Department of Mental Health

USER LOCATION:

**(070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477**

BUILDING NAME:

Residence Unit 108-109-110

INSPECTORS:

**Jay Fox
Vahooman Mirkhaef**

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
MTA	Under Floor Duct Pipe Transite	X			
MTB	Light Cover	X			
SFA	Fire Proofing on Beams			7	
SPA	Veneer Plaster Ceiling and Walls			7	
SPB	Plaster Seal Coat			5	
SPC	Veneer Plaster Walls and Ceilings (1984)			7	

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.:

**B4108-B4109-B4110
901-010-010**

USER AGENCY:

Department of Mental Health

USER LOCATION:

**(070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477**

BUILDING NAME:

Residence Unit 108-109-110

INSPECTORS:

**Jay Fox
Vahooman Mirkhaef**

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
SPD	Cement Plaster Walls Remodeled (1984)			7	
SPE	Gypsum Plaster Ceiling Remodeled (1984)			7	
SPF	Veneer Plaster Walls and Ceilings (1989)			3	
TJA	Cementitious Pipe Fitting			3	
MMA	Tape			3	

FORM 6 - SUMMARY OF FINDINGS

Residence Units 108, 109 & 110

MANAGEMENT PLAN PHASE III
LIST IN ORDER OF RESPONSE ACTION NUMBER

BUILDING NAME
C.D.B. BUILDING NUMBER

B4108, B4109 & B4110

HOMOGENEOUS AREA	MATERIAL DESCRIPTION	ACM CONTENT (%)			DAMAGE ASSESSMENT							RESPONSE ACTION	
		CHRYSOTILE	AMOSITE	OTHER	ASSUMED ACM	NO DAMAGE	SALIENT DAMAGE	SIGNIFICANT DAMAGE	NO POTENTIAL DAMAGE	POTENTIAL SIGNIFICANT DAMAGE	POTENTIAL SIGNIFICANT DAMAGE		NUMBER
MFA	1 x 1 Floor tile and Mastic				X							8	O&M
MMB	Wood Fire Door Insulation				X							6	O&M
MMC	Metal Fire Door Insulation				X							8	O&M
MMD	Insulation at Back-Draft Dampers				X							8	O&M
MME	Insulation at Fire Dampers				X							8	O&M
MMA	Under Floor Duct (Transite)				X							8	O&M
MTB	Transite Light Covers				X							8	O&M

ASBESTOS MANAGEMENT PLAN REPORT

CDB PROJECT NUMBER - 910-010-010

HOWE MENTAL HEALTH CENTER
DEPARTMENT OF MENTAL HEALTH AND
DEVELOPMENTAL DISABILITIES
RESIDENCE UNITS 201, 202, 203 & 204
C.D.B. BUILDING #B4201, B4202, B4203 & B4204
7600 WEST 183RD STREET
TINLEY PARK, IL 60477

STATE OF ILLINOIS

CAPITAL DEVELOPMENT BOARD

SPRINGFIELD, ILLINOIS

BY:
FOX & FOX ARCHITECTS & ENGINEERS
330 SOUTH WELLS STREET
CHICAGO, IL 60606
(312) 427-5592

DATE: OCT. 10, 1994

DATE SIGNED: 10/26/94

EXP. DATE: 11/30/96

IDPH LICENSE: 100-0471

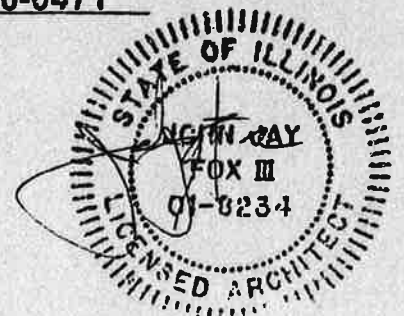
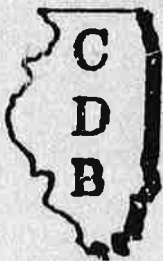


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- XI. MME - Fire Damper Insulation
- XII. MMF - Built-Up Roof and Flashings
- XIII. MTA - Under Floor Duct Pipe Transite
- XIV. MTB - Light Cover
- XV. SFA - Fire Proofing on Beams
- XVI. SPA - Veneer Plaster Ceiling and Walls
- XVII. SPB - Plaster Seal Coat
- XVIII. SPC - Veneer Plaster Walls and Ceilings (1981)
- XIX. SPD - Cement Plaster Walls Remodeled (1981)
- XX. SPE - Gypsum Plaster Ceiling Remodeled (1981)
- XXI. SPF - Veneer Plaster Walls and Ceilings (1989)
- XXII. TJA - Cementitious Pipe Fitting
- XXIII. MMA - Tape

- XXIV. Cost Summary
- XXV. Chain of Custody
- XXVI. Licenses and Accreditations
- XXVII. Operation and Maintenance Plan

CAPITAL DEVELOPMENT BOARD BUILDING INVENTORY FORM 3

C.D.B. BUILDING NUMBER: B4201 BUILDING NAME: Residence Unit 201

USING AGENCY: 321 Dept. Of Mental Health/DD LOCATION: 070 Howe Development Center

BLDG. ADDRESS: 7600 West 183rd Street CITY: Tinley Park

ZIP: 60477 COUNTY: Cook HOUSE/SENATE DISTRICT: 037/19

YEAR CONSTRUCTED: 1974 GROSS SQ. FT. 2,800 TOTAL FLOORS: 1 FLOORS BELOW GRADE: 0

USE OF BUILDING WHEN CONSTRUCTED(C): Health Care CURRENT PRIMARY USE (P): Health Care CURRENT SECONDARY USE (S): N/A

PREDOMINATE CONSTRUCTION TYPE: Brick

FOR USING AGENCY USE ONLY: _____

BUILDING NOTES: _____

(FOR C.D.B. USE ONLY)
ASBESTOS STATUS: _____

CAPITAL DEVELOPMENT BOARD BUILDING INVENTORY FORM 3

C.D.B. BUILDING NUMBER: B4202 BUILDING NAME: Residence Unit 202

USING AGENCY: 321 Dept. Of Mental Health/DD LOCATION: 070 Howe Development Center

BLDG. ADDRESS: 7600 West 183rd Street CITY: Tinley Park

ZIP: 60477 COUNTY: Cook HOUSE/SENATE DISTRICT: 037/19

YEAR CONSTRUCTED: 1974 GROSS SQ. FT. 2,800 TOTAL FLOORS: 1 FLOORS BELOW GRADE: 0

USE OF BUILDING WHEN CONSTRUCTED(C): Health Care CURRENT PRIMARY USE (P): Health Care CURRENT SECONDARY USE (S): N/A

PREDOMINATE CONSTRUCTION TYPE: Brick

FOR USING AGENCY USE ONLY: _____

BUILDING NOTES: _____

(FOR C.D.B. USE ONLY)
ASBESTOS STATUS: _____

CAPITAL DEVELOPMENT BOARD BUILDING INVENTORY FORM 3

C.D.B. BUILDING NUMBER: B4203 BUILDING NAME: Residence Unit 203

USING AGENCY: 321 Dept. Of Mental Health/DD LOCATION: 070 Howe Development Center

BLDG. ADDRESS: 7600 West 183rd Street CITY: Tinley Park

ZIP: 60477 COUNTY: Cook HOUSE/SENATE DISTRICT: 057/19

YEAR CONSTRUCTED: 1974 GROSS SQ. FT.: 2,800 TOTAL FLOORS: 1 FLOORS BELOW GRADE: 0

USE OF BUILDING WHEN CONSTRUCTED(C): Health Care CURRENT PRIMARY USE (P): Health Care CURRENT SECONDARY USE (S): N/A

PREDOMINATE CONSTRUCTION TYPE: Brick

FOR USING AGENCY USE ONLY: _____

BUILDING NOTES: _____

(FOR C.D.B. USE ONLY)
ASBESTOS STATUS: _____

CAPITAL DEVELOPMENT BOARD BUILDING INVENTORY FORM 3

C.D.B. BUILDING NUMBER: B4204 BUILDING NAME: Residence Unit 204

USING AGENCY: 321 Dept. Of Mental Health/DD LOCATION: 070 Howe Development Center

BLDG. ADDRESS: 7600 West 183rd Street CITY: Tinley Park

ZIP: 60477 COUNTY: Cook HOUSE/SENATE DISTRICT: 037/19

YEAR CONSTRUCTED: 1974 GROSS SQ. FT. 2,800 TOTAL FLOORS: 1 FLOORS BELOW GRADE: 0

USE OF BUILDING WHEN CONSTRUCTED(C): Health Care CURRENT PRIMARY USE (P): Health Care CURRENT SECONDARY USE (S): N/A

PREDOMINATE CONSTRUCTION TYPE: Brick

FOR USING AGENCY USE ONLY:

BUILDING NOTES:

(FOR C.D.B. USE ONLY)
ASBESTOS STATUS:

A

FORM 4

INTRODUCTION TO THE MANAGEMENT PLAN

A. Policy Statement

This Management Plan is intended to be a working document which will serve as a guide to staff, employees, occupants and visitors in minimizing the risk of exposure to asbestos fibers. The State of Illinois recognizes the serious health hazards associated with asbestos fibers. The State has conducted an inspection of this facility in order to determine whether asbestos is present, and if so, where the asbestos is located.

This Management Plan sets forth the recommended response actions for the ACM (asbestos containing material) within this facility. Further, where required, an Operations & Maintenance (O & M) Program has been established which will be implemented by facility staff.

This Plan has been reviewed by CDB, the Contracting Agency and the Using Agency and represents the policies and procedures to be implemented with respect to any ACM within this facility.

Dated: _____

Capital Development Board Representative

Dated: _____

Agency (Designated Person)

Dated: 10/26/94



Management Planner

The data linking asbestos exposure to mesothelioma is based upon many of the same epidemiological studies of workers that demonstrated an association between asbestos exposure and lung cancer. The findings are somewhat different than for lung cancer. Lower non-occupational exposures have also been associated with mesothelioma in addition to occupational exposure. Therefore, lower levels of exposure to asbestos as found in some non-occupational settings may give rise to mesothelioma. Secondly, the nature of the dose response relationship may be different from that of lung cancer. The risk continues to increase as the number of years since first exposure increases. In many cases, a latent period of more than 40 years has been described.

Gastrointestinal Cancer - Several of the epidemiological studies of workers occupationally exposed to asbestos have shown increased risks of gastrointestinal cancer including cancers of the colon, rectum, stomach and esophagus. The risk, however, does not appear to be as great as for lung cancer. To date, no association has been found between asbestos in drinking water and gastrointestinal cancer.

Asbestos Related Pleural Disease - This category of health effects includes fibrous and sometimes calcified plaques as well as diffuse thickening of the pleura and the pleural effusion. These are non-cancerous changes of the membranes surrounding the lungs and commonly occur many years after asbestos exposure. The presence of plaques suggests prior asbestos exposure but usually does not cause any symptoms or respiratory impairment.

Asbestosis - Asbestosis is a disabling lung disorder consisting of generalized scarring of the lungs which causes shortness of breath on exertion. Asbestosis has been described almost exclusively in workers with occupational exposure to high concentrations of asbestos-containing dusts. In asbestosis, there appears to be a very strong dose response relationship in that the greater the concentration of asbestos fibers, and the longer the duration of exposure, the greater the likelihood and severity of asbestosis.

As with the other asbestos related health effects, there is usually a time lag or latent period of several years before the development of disease. Once acquired, asbestosis tends to progress slowly, sometimes for years after asbestos exposure has ended.

CDB BUILDING NO.'S

B4201-B4202-B4203-B4204

The individual residential units were constructed in 1974 with common walls as a single building at the Howe Mental Health Facility. The exterior brick wall system was replaced in 1981 due to structural failure. The major remodeling work required replacement of interior plaster ceiling and walls.

The building is single story and has a combined square footage of 11200 square feet. There are no attics, crawlspace or basement.

The building is used to house patients for the Howe Mental Health Facility.

The exterior material is brick veneer with interior steel channels and studs supporting gypsum board and plaster. Steel columns and beams support bar joist and metal roof deck.

The roof is flat except for a sloped section near the front doors of the individual residential units. The flat roof is constructed of build-up roofing on mineral insulation. The pitch roof is terne metal. The roof is deteriorating and should be replaced.

The building is heated and cooled by a forced air system.

Under floor and overhead ducts supply air to all rooms in the residence. The HVAC systems appear in good working order. Hot water heaters in the mechanical rooms supply hot water to the building. The energy source for furnaces and hot water heaters is gas.

To the best of our knowledge there has not been any asbestos abatement in this building.

No asbestos was detected in any of the material sampled. Areas assumed to contain asbestos were not sampled and no determination of their content can be made. Any asbestos in this building would cause relatively little hazard.

SUMMARY OF FINDINGS

INSPECTION PHASE I

CDB BUILDING NO./PROJECT NO.: B4201-B4202-B4203-B4204
910-010-010

USER AGENCY: Department of Mental Health/DD

USER LOCATION: (070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477 - Cook
County

BUILDING NAME: Residence Unit 201-202-203-204

INSPECTORS: Vahooman Mirkhaef (I-057)
Jay Fox (I-0471)

HOMOGENEOUS AREA	DESCRIPTION	QUANTITY	NUMBER SAMPLES RECOMMENDED	REMOVAL COST ESTIMATE
SFA	Fire Proofing on Beams	1500	5	
SPA	Veneer Plaster Ceiling and Walls	44000	7	\$572,000
SPB	Plaster Seal Coat	240	3	
SPC	Veneer Plaster Walls and Ceilings (1981)	19000	7	\$247,000
SPD	Cement Plaster Walls Remodeled (1981)	1000	5	
SPE	Gypsum Plaster Ceiling Remodeled (1981)	1000	5	

INSPECTION PHASE I

CDB BUILDING NO./PROJECT NO.:

**B4201-B4202-B4203-B4204
910-010-010**

USER AGENCY:

Department of Mental Health/DD

USER LOCATION:

**(070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477 - Cook
County**

BUILDING NAME:

Residence Unit 201-202-203-204

INSPECTORS:

**Vahooman Mirkhaef (I-057)
Jay Fox (I-0471)**

HOMOGENEOUS AREA	DESCRIPTION	QUANTITY	NUMBER SAMPLES RECOMMENDED	REMOVAL COST ESTIMATE
SPF	Veneer Plaster Walls and Ceilings (1989)	60	3	
TJA	Mag Block Pipe Fitting	120	3	
MFA	1 X 1 Floor Tile and Mastic	9600	Assumed ACM	
MMA	Tape	300	3	
MMB	Fire Door - Wood Insulation	7	Assumed ACM	
MMC	Fire Door - Metal	12	Assumed ACM	

INSPECTION PHASE I

CDB BUILDING NO./PROJECT NO.:

**B4201-B4202-B4203-B4204
910-010-010**

USER AGENCY:

Department of Mental Health/DD

USER LOCATION:

**(070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477 - Cook
County**

BUILDING NAME:

Residence Unit 201-202-203-204

INSPECTORS:

**Vahooman Mirkhaef (I-057)
Jay Fox (I-0471)**

HOMOGENEOUS AREA	DESCRIPTION	QUANTITY	NUMBER SAMPLES RECOMMENDED	REMOVAL COST ESTIMATE
MMD	Exhaust Backdraft Damper Insulation	60	Assumed ACM	
MME	Fire Damper Insulation	60	Assumed ACM	
MMF	Built-up Roof and Flashings	10816	Assumed ACM	\$ 48,672
MTA	Under Floor Duct Pipe Transite	1200	Assumed ACM	
MTB	Light Cover	16	Assumed ACM	

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.:

**B4201-B4202-B4203-B4204
901-010-010**

USER AGENCY:

Department of Mental Health

USER LOCATION:

**(070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477**

BUILDING NAME:

Residence Unit 201-202-202-204

INSPECTORS:

**Jay Fox
Vahooman Mirkhaef
David Sloman**

HOMOGENEOUS AREA	DESCRIPTION	ACH			NOTES
		ASSUMED	POS	NEG	
MFA	1 X 1 Floor Tile and Mastic	X			
MMB	Fire Door	X			
MMC	Fire Door-Metal Insulation	X			
MMD	Exhaust Backdraft Damper Insulation	X			
MME	Fire Damper Insulation	X			
MMF	Built-Up Roof and Flashing	X			
MTA	Under Floor Duct Pipe Transite	X			

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.: B4201-B4202-B4203-B4204
901-010-010

USER AGENCY: Department of Mental Health

USER LOCATION: (070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477

BUILDING NAME: Residence Unit 201-202-202-204

INSPECTORS: Jay Fox
Vahooman Mirkhaef
David Sloman

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
MTB	Light Cover	X			
SFA	Fire Proofing on Beams			7	
SPA	Veneer Plaster Ceiling and Walls			7	
SPB	Plaster Seal Coat			5	
SPC	Veneer Plaster Walls and Ceilings			7	
SPD	Cement Plaster Walls Remodeled			7	

SUMMARY OF FINDINGS

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.:

**B4201-B4202-B4203-B4204
901-010-010**

USER AGENCY:

Department of Mental Health

USER LOCATION:

**(070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477**

BUILDING NAME:

Residence Unit 201-202-202-204

INSPECTORS:

**Jay Fox
Vahooman Mirkhaef
David Sloman**

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
SPE	Gypsum Plaster Ceiling Remodeled			7	
SPF	Veneer Plaster Walls and Ceilings (1989)			3	
TJA	Cementitious Pipe Fitting			3	
MMA	Tape			3	

HOMOGENEOUS AREA	MATERIAL DESCRIPTION	ACM CONTENT (%)			DAMAGE ASSESSMENT							RESPONSE ACTION		
		CHRYSOTILE	AMOSITE	OTHER	ASSUMED ACM	NO DAMAGE	SALIENT DAMAGE	SIGNIFICANT DAMAGE	NO POTENTIAL DAMAGE	POTENTIAL DAMAGE	POTENTIAL SIGNIFICANT DAMAGE		NUMBER	DESCRIPTION (I.E. REMOVE, REPAIR, ENCLOSE, ENCAPSULATE, OR O&M)
MFA	1 x 1 Floor Tile and Mastic				X							8	O&M	
MMB	Wood Fire Door Insulation				X				X			8	O&M	
MMC	Metal Fire Door Insulation				X				X			8	O&M	
MMD	Insulation at Back-Draft Dampers				X				X			8	O&M	
MME	Insulation at Fire Dampers				X				X			8	O&M	
MMF	Built-Up Roof, Flashings & Mastic				X				X			8	O&M	
MTA	Under Floor Duct (Transite)				X				X			8	O&M	
MTB	Transite Light Covers				X				X			8	O&M	

ASBESTOS MANAGEMENT PLAN REPORT

CDB PROJECT NUMBER - 910-010-010

HOWE MENTAL HEALTH CENTER
DEPARTMENT OF MENTAL HEALTH AND
DEVELOPMENTAL DISABILITIES
RESIDENCE UNITS 208, 209 & 210
C.D.B. BUILDING #B4208, B4209 & B4210
7600 WEST 183RD STREET
TINLEY PARK, IL 60477

STATE OF ILLINOIS

CAPITAL DEVELOPMENT BOARD

SPRINGFIELD, ILLINOIS

BY:
FOX & FOX ARCHITECTS & ENGINEERS
330 SOUTH WELLS STREET
CHICAGO, IL 60606
(312) 427-5592

DATE: OCT. 10, 1994

DATE SIGNED: 10/26/94

EXP. DATE: 11/30/96

IDPH LICENSE: 100-0471

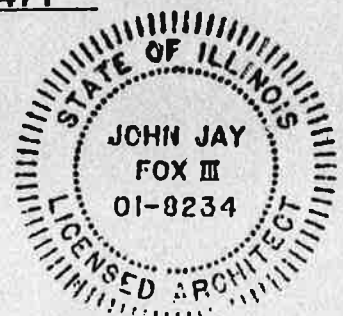
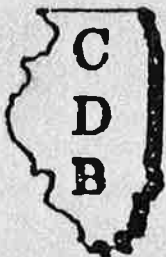


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- IX. MMC - Fire Door - Metal
- X. MMD - Exhaust Back-Draft Damper Insulation
- XI. MME - Fire Damper Insulation
- XII. MMF - Built-Up Roof and Flashings
- XIII. MTA - Under Floor Duct Pipe Transite
- XIV. MTB - Light Cover
- XV. SFA - Fire Proofing on Beams
- XVI. SPA - Veneer Plaster Ceiling and Walls
- XVII. SPB - Plaster Seal Coat
- XVIII. SPC - Veneer Plaster Walls and Ceilings (1981)
- XIX. SPD - Cement Plaster Walls Remodeled (1981)
- XX. SPE - Gypsum Plaster Ceiling Remodeled (1981)
- XXI. SPF - Veneer Plaster Walls and Ceilings (1989)
- XXII. TJA - Cementitious Pipe Fitting
- XXIII. MMA - Tape

- XXIV. Cost Summary
- XXV. Chain of Custody
- XXVI. Licenses and Accreditations
- XXVII. Operation and Maintenance Plan

CAPITAL DEVELOPMENT BOARD BUILDING INVENTORY FORM 3

C.D.B. BUILDING NUMBER: B4208 BUILDING NAME: Residence Unit 208

USING AGENCY: 321 Dept. Of Mental Health/DD LOCATION: 070 Howe Development Center

BLDG. ADDRESS: 7600 West 183rd Street CITY: Tinley Park

ZIP: 60477 COUNTY: Cook HOUSE/SENATE DISTRICT: 037/19

YEAR CONSTRUCTED: 1974 GROSS SQ. FT.: 2,800 TOTAL FLOORS: 1 FLOORS BELOW GRADE: 0

USE OF BUILDING WHEN CONSTRUCTED(C): Health Care CURRENT PRIMARY USE (P): Health Care CURRENT SECONDARY USE (S): N/A

PREDOMINATE CONSTRUCTION TYPE: Brick

FOR USING AGENCY USE ONLY: _____

BUILDING NOTES: _____

(FOR C.D.B. USE ONLY) ASBESTOS STATUS: _____

A.

CAPITAL DEVELOPMENT BOARD BUILDING INVENTORY FORM 3

C.D.B. BUILDING NUMBER: B4209 BUILDING NAME: Residence Unit 209

USING AGENCY: 321 Dept. Of Mental Health/DD LOCATION: 070 Howe Development Center

BLDG. ADDRESS: 7600 West 183rd Street CITY: Tinley Park

ZIP: 60477 COUNTY: Cook HOUSE/SENATE DISTRICT: 037/19

YEAR CONSTRUCTED: 1974 GROSS SQ. FT. 2,800 TOTAL FLOORS: 1 FLOORS BELOW GRADE: 0

USE OF BUILDING WHEN CONSTRUCTED(C): Health Care CURRENT PRIMARY USE (P): Health Care CURRENT SECONDARY USE (S): N/A

PREDOMINATE CONSTRUCTION TYPE: Brick

FOR USING AGENCY USE ONLY: _____

BUILDING NOTES: _____

(FOR C.D.B. USE ONLY) ASBESTOS STATUS: _____

CAPITAL DEVELOPMENT BOARD BUILDING INVENTORY FORM 3

C.D.B. BUILDING NUMBER: B4210 BUILDING NAME: Residence Unit 210

USING AGENCY: 321 Dept. Of Mental Health/DD LOCATION: 070 Howe Development Center

BLDG. ADDRESS: 7600 West 183rd Street CITY: Tinley Park

ZIP: 60477 COUNTY: Cook HOUSE/SENATE DISTRICT: 037/19

YEAR CONSTRUCTED: 1974 GROSS SQ. FT. 2,800 TOTAL FLOORS: 1 FLOORS BELOW GRADE: 0

USE OF BUILDING WHEN CONSTRUCTED(C): Health Care CURRENT PRIMARY USE (P): Health Care CURRENT SECONDARY USE (S): N/A

PREDOMINATE CONSTRUCTION TYPE: Brick

FOR USING AGENCY USE ONLY:

BUILDING NOTES:

(FOR C.D.B. USE ONLY)
ASBESTOS STATUS:

FORM 4

INTRODUCTION TO THE MANAGEMENT PLAN

A. Policy Statement

This Management Plan is intended to be a working document which will serve as a guide to staff, employees, occupants and visitors in minimizing the risk of exposure to asbestos fibers. The State of Illinois recognizes the serious health hazards associated with asbestos fibers. The State has conducted an inspection of this facility in order to determine whether asbestos is present, and if so, where the asbestos is located.

This Management Plan sets forth the recommended response actions for the ACM (asbestos containing material) within this facility. Further, where required, an Operations & Maintenance (O & M) Program has been established which will be implemented by facility staff.

This Plan has been reviewed by CDB, the Contracting Agency and the Using Agency and represents the policies and procedures to be implemented with respect to any ACM within this facility.

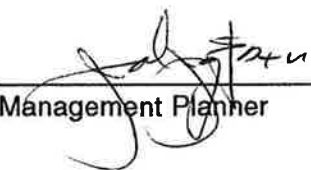
Dated: _____

Capital Development Board Representative

Dated: _____

Agency (Designated Person)

Dated: 10/26/94



Management Planner

The data linking asbestos exposure to mesothelioma is based upon many of the same epidemiological studies of workers that demonstrated an association between asbestos exposure and lung cancer. The findings are somewhat different than for lung cancer. Lower non-occupational exposures have also been associated with mesothelioma in addition to occupational exposure. Therefore, lower levels of exposure to asbestos as found in some non-occupational settings may give rise to mesothelioma. Secondly, the nature of the dose response relationship may be different from that of lung cancer. The risk continues to increase as the number of years since first exposure increases. In many cases, a latent period of more than 40 years has been described.

Gastrointestinal Cancer - Several of the epidemiological studies of workers occupationally exposed to asbestos have shown increased risks of gastrointestinal cancer including cancers of the colon, rectum, stomach and esophagus. The risk, however, does not appear to be as great as for lung cancer. To date, no association has been found between asbestos in drinking water and gastrointestinal cancer.

Asbestos Related Pleural Disease - This category of health effects includes fibrous and sometimes calcified plaques as well as diffuse thickening of the pleura and the pleural effusion. These are non-cancerous changes of the membranes surrounding the lungs and commonly occur many years after asbestos exposure. The presence of plaques suggests prior asbestos exposure but usually does not cause any symptoms or respiratory impairment.

Asbestosis - Asbestosis is a disabling lung disorder consisting of generalized scarring of the lungs which causes shortness of breath on exertion. Asbestosis has been described almost exclusively in workers with occupational exposure to high concentrations of asbestos-containing dusts. In asbestosis, there appears to be a very strong dose response relationship in that the greater the concentration of asbestos fibers, and the longer the duration of exposure, the greater the likelihood and severity of asbestosis.

As with the other asbestos related health effects, there is usually a time lag or latent period of several years before the development of disease. Once acquired, asbestosis tends to progress slowly, sometimes for years after asbestos exposure has ended.

CDB BUILDING NO.'S

B4208-B4209-B4210

The individual residential units were constructed in 1974 with common walls as a single building at the Howe Mental Health Facility. The exterior brick wall system was replaced in 1981 due to structural failure. The major remodeling work required replacement of interior plaster ceiling and walls.

The building is single story and has a combined square footage of 8400 square feet. There are no attics, crawlspace or basement.

The building is used to house patients for the Howe Mental Health Facility.

The exterior material is brick veneer with interior steel channels and studs supporting gypsum board and plaster. Steel columns and beams support bar joist and metal roof deck.

The roof is flat except for a sloped section near the front doors of the individual residential units. The flat roof is constructed of build-up roofing on mineral insulation. The pitch roof is terne metal. The roof is deteriorating and should be replaced.

The building is heated and cooled by a forced air system.

Under floor and overhead ducts supply air to all rooms in the residence. The HVAC systems appear in good working order. Hot water heaters in the mechanical rooms supply hot water to the building. The energy source for furnaces and hot water heaters is gas.

To the best of our knowledge there has not been any asbestos abatement in this building.

No asbestos was detected in any of the material sampled. Areas assumed to contain asbestos were not sampled and no determination of their content can be made. Any asbestos in this building would cause relatively little hazard.

SUMMARY OF FINDINGS

INSPECTION PHASE I

CDB BUILDING NO./PROJECT NO.: B4208-B4209-B4210
910-010-010

USER AGENCY: Department of Mental Health/DD

USER LOCATION: (070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477 - Cook
County

BUILDING NAME: Residence Unit 208-209-210

INSPECTORS: Vahooman Mirkhaef (I-057)
Jay Fox (I-0471)

HOMOGENEOUS AREA	DESCRIPTION	QUANTITY	NUMBER SAMPLES RECOMMENDED	REMOVAL COST ESTIMATE
SFA	Fire Proofing on Beams	1125	5	
SPA	Veneer Plaster Ceiling and Walls	33000	7	\$429,000
SPB	Plaster Seal Coat	180	3	
SPC	Veneer Plaster Walls and Ceilings (1981)	14250	7	\$185,250
SPD	Cement Plaster Walls Remodeled (1981)	750	3	
SPE	Gypsum Plaster Ceiling Remodeled (1981)	750	3	

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.: B4208-B4209-B4210
901-010-010

USER AGENCY: Department of Mental Health

USER LOCATION: (070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477

BUILDING NAME: Residence Unit 208-209-210

INSPECTORS: Jay Fox
Vahooman Mirkhaef

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
MFA	1 X 1 Floor Tile and Mastic	X			
MMB	Fire Door - Wood Insulation	X			
MMC	Fire Door - Metal	X			
MMD	Exhaust Backdraft Damper Insulation	X			
MME	Fire Damper Insulation	X			
MMF	Built-up Roof and Flashings	X			

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.:

**B4208-B4209-B4210
901-010-010**

USER AGENCY:

Department of Mental Health

USER LOCATION:

**(070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477**

BUILDING NAME:

Residence Unit 208-209-210

INSPECTORS:

**Jay Fox
Vahooman Mirkhaef**

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
MTA	Under Floor Duct Pipe Transite	X			
MTB	Light Cover	X			
SFA	Fire Proofing on Beams			7	
SPA	Veneer Plaster Ceiling and Walls			7	
SPB	Plaster Seal Coat			5	
SPC	Veneer Plaster Walls and Ceilings			7	

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.: B4208-B4209-B4210
 901-010-010

USER AGENCY: Department of Mental Health

USER LOCATION: (070) Howe Mental Health Center
 7600 W. 183rd Street
 Tinley Park, Illinois 60477

BUILDING NAME: Residence Unit 208-209-210

INSPECTORS: Jay Fox
 Vahooman Mirkhaef

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
SPD	Cement Plaster Walls Remodeled			7	
SPE	Gypsum Plaster Ceiling Remodeled			7	
SPF	Veneer Plaster Walls and Ceilings (1989)			3	
TJA	Cementitious Pipe Fitting			3	
MMA	Tape			3	

FORM 6 - SUMMARY OF FINDINGS

MANAGEMENT PLAN PHASE III

Residence Units 208, 209

BUILDING NAME

B4208, B4209

LIST IN ORDER OF RESPONSE ACTION NUMBER

C.D.B. BUILDING NUMBER & B4210

HOMOGENEOUS AREA	MATERIAL DESCRIPTION	ACM CONTENT (%)			ASSUMED ACM	NO DAMAGE	SALIENT DAMAGE	SIGNIFICANT DAMAGE	NO POTENTIAL DAMAGE	POTENTIAL SIGNIFICANT DAMAGE	POTENTIAL DAMAGE	DAMAGE ASSESSMENT		
		CHRYSOPILE	AMOSITE	OTHER								NUMBER	RESPONSE ACTION	DESCRIPTION (I.E. REMOVE, REPAIR, ENCLOSE, ENCAPSULATE, OR O&M)
MFA	1 x 1 Floor Tile and Mastic				X							8	O&M	
MMB	Wood Fire Door Insulation				X			X				8	O&M	
MMC	Metal Fire Door Insulation				X			X				8	O&M	
MMD	Insulation at Back-Draft Dampers													
MME	Insulation at Fire Dampers				X			X				8	O&M	
MMF	Built-Up Roof, Flashings & Mastic				X			X				8	O&M	
MTA	Under Floor Duct (Transite)				X			X				8	O&M	
MTB	Transite Light Covers				X			X				8	O&M	

ASBESTOS MANAGEMENT PLAN REPORT

CDB PROJECT NUMBER - 910-010-010

HOWE MENTAL HEALTH CENTER
DEPARTMENT OF MENTAL HEALTH AND
DEVELOPMENTAL DISABILITIES
RESIDENCE UNITS 301, 302, 303 & 304
C.D.B. BUILDING #B4301, B4302, B4303 & B4304
7600 WEST 183RD STREET
TINLEY PARK, IL 60477

STATE OF ILLINOIS

CAPITAL DEVELOPMENT BOARD

SPRINGFIELD, ILLINOIS

BY:
FOX & FOX ARCHITECTS & ENGINEERS
330 SOUTH WELLS STREET
CHICAGO, IL 60606
(312) 427-5592

DATE: OCT. 10, 1994

DATE SIGNED: 10/26/94

EXP. DATE: 11/30/96

IDPH LICENSE: 100-0471

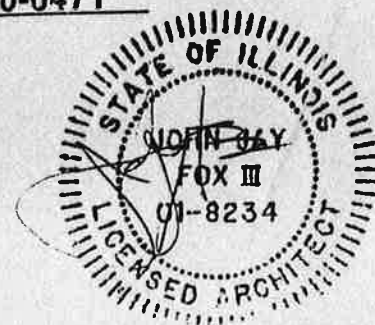
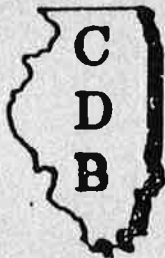


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- IX. MMC - Fire Door - Metal
- X. MMD - Exhaust Back-Draft Damper Insulation
- XI. MME - Fire Damper Insulation
- XII. MTA - Under Floor Duct Pipe Transite
- XIII. MTB - Light Cover
- XIV. SFA - Fire Proofing on Beams
- XV. SPA - Veneer Plaster Ceiling and Walls
- XVI. SPB - Plaster Seal Coat
- XVII. SPC - Veneer Plaster Walls and Ceilings (1984)
- XVIII. SPD - Cement Plaster Walls Remodeled (1984)
- XIX. SPE - Gypsum Plaster Ceiling Remodeled (1984)
- XX. SPF - Veneer Plaster Walls and Ceilings (1989)
- XXI. TJA - Cementitious Pipe Fitting
- XXII. MMA - Tape

- XXIII. Cost Summary
- XXIV. Chain of Custody
- XXV. Licenses and Accreditations
- XXVI. Operation and Maintenance Plan

CAPITAL DEVELOPMENT BOARD BUILDING INVENTORY FORM 3

C.D.B. BUILDING NUMBER: B4301 BUILDING NAME: Residence Unit 301

USING AGENCY: 321 Dept. Of Mental Health/DD LOCATION: 070 Howe Development Center

BLDG. ADDRESS: 7600 West 183rd Street CITY: Tinley Park

ZIP: 60477 COUNTY: Cook HOUSE/SENATE DISTRICT: 037/19

YEAR CONSTRUCTED: 1974 GROSS SQ. FT. 2,800 TOTAL FLOORS: 1 FLOORS BELOW GRADE: 0

USE OF BUILDING WHEN CONSTRUCTED(C): Health Care CURRENT PRIMARY USE (P): Health Care CURRENT SECONDARY USE (S): N/A

PREDOMINATE CONSTRUCTION TYPE: Brick

FOR USING AGENCY USE ONLY: _____

BUILDING NOTES: _____

(FOR C.D.B. USE ONLY)
ASBESTOS STATUS: _____

CAPITAL DEVELOPMENT BOARD BUILDING INVENTORY FORM 3

C.D.B.
BUILDING NUMBER: B4302 **BUILDING NAME:** Residence Unit 302

USING AGENCY: 321 Dept. Of Mental Health/DD **LOCATION:** 070 Howe Development Center

BLDG. ADDRESS: 7600 West 183rd Street **CITY:** Tinley Park

ZIP: 60477 **COUNTY:** Cook **HOUSE/SENATE DISTRICT:** 037/19

YEAR CONSTRUCTED: 1974 **GROSS SQ. FT.** 2,800 **TOTAL FLOORS:** 1 **FLOORS BELOW GRADE:** 0

USE OF BUILDING WHEN CONSTRUCTED(C): Health Care **CURRENT PRIMARY USE (P):** Health Care **CURRENT SECONDARY USE (S):** N/A

PREDOMINATE CONSTRUCTION TYPE: Brick

FOR USING AGENCY USE ONLY:

BUILDING NOTES:

(FOR C.D.B. USE ONLY)
ASBESTOS STATUS:

F-1

CAPITAL DEVELOPMENT BOARD BUILDING INVENTORY FORM 3

C.D.B. BUILDING NUMBER: B4303 **BUILDING NAME:** Residence Unit 503

USING AGENCY: 321 Dept. Of Mental Health/DD **LOCATION:** 070 Howe Development Center

BLDG. ADDRESS: 7600 West 183rd Street **CITY:** Tinley Park

ZIP: 60477 **COUNTY:** Cook **HOUSE/SENATE DISTRICT:** 037/19

YEAR CONSTRUCTED: 1974 **GROSS SQ. FT.** 2,800 **TOTAL FLOORS:** 1 **FLOORS BELOW GRADE:** 0

USE OF BUILDING WHEN CONSTRUCTED(C): Health Care **CURRENT PRIMARY USE (P):** Health Care **CURRENT SECONDARY USE (S):** N/A

PREDOMINATE CONSTRUCTION TYPE: Brick

FOR USING AGENCY USE ONLY:

BUILDING NOTES:

(FOR C.D.B. USE ONLY) ASBESTOS STATUS:

H-1

CAPITAL DEVELOPMENT BOARD BUILDING INVENTORY FORM 3

C.D.B. BUILDING NUMBER: B4304 BUILDING NAME: Residence Unit 304

USING AGENCY: 321 Dept. Of Mental Health/DD LOCATION: 070 Howe Development Center

BLDG. ADDRESS: 7600 West 183rd Street CITY: Tinley Park

ZIP: 60477 COUNTY: Cook HOUSE/SENATE DISTRICT: 037/19

YEAR CONSTRUCTED: 1974 GROSS SQ. FT. 2,800 TOTAL FLOORS: 1 FLOORS BELOW GRADE: 0

USE OF BUILDING WHEN CONSTRUCTED(C): Health Care CURRENT PRIMARY USE (P): Health Care CURRENT SECONDARY USE (S): N/A

PREDOMINATE CONSTRUCTION TYPE: Brick

FOR USING AGENCY USE ONLY:

BUILDING NOTES:

(FOR C.D.B. USE ONLY)
ASBESTOS STATUS:

H

FORM 4

INTRODUCTION TO THE MANAGEMENT PLAN

A Policy Statement

This Management Plan is intended to be a working document which will serve as a guide to staff, employees, occupants and visitors in minimizing the risk of exposure to asbestos fibers. The State of Illinois recognizes the serious health hazards associated with asbestos fibers. The State has conducted an inspection of this facility in order to determine whether asbestos is present, and if so, where the asbestos is located.

This Management Plan sets forth the recommended response actions for the ACM (asbestos containing material) within this facility. Further, where required, an Operations & Maintenance (O & M) Program has been established which will be implemented by facility staff.

This Plan has been reviewed by CDB, the Contracting Agency and the Using Agency and represents the policies and procedures to be implemented with respect to any ACM within this facility.

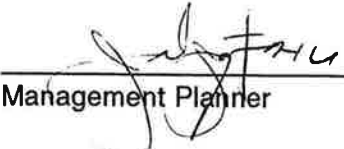
Dated: _____

Capital Development Board Representative

Dated: _____

Agency (Designated Person)

Dated: 10/26/94



Management Planner

The data linking asbestos exposure to mesothelioma is based upon many of the same epidemiological studies of workers that demonstrated an association between asbestos exposure and lung cancer. The findings are somewhat different than for lung cancer. Lower non-occupational exposures have also been associated with mesothelioma in addition to occupational exposure. Therefore, lower levels of exposure to asbestos as found in some non-occupational settings may give rise to mesothelioma. Secondly, the nature of the dose response relationship may be different from that of lung cancer. The risk continues to increase as the number of years since first exposure increases. In many cases, a latent period of more than 40 years has been described.

Gastrointestinal Cancer - Several of the epidemiological studies of workers occupationally exposed to asbestos have shown increased risks of gastrointestinal cancer including cancers of the colon, rectum, stomach and esophagus. The risk, however, does not appear to be as great as for lung cancer. To date, no association has been found between asbestos in drinking water and gastrointestinal cancer.

Asbestos Related Pleural Disease - This category of health effects includes fibrous and sometimes calcified plaques as well as diffuse thickening of the pleura and the pleural effusion. These are non-cancerous changes of the membranes surrounding the lungs and commonly occur many years after asbestos exposure. The presence of plaques suggests prior asbestos exposure but usually does not cause any symptoms or respiratory impairment.

Asbestosis - Asbestosis is a disabling lung disorder consisting of generalized scarring of the lungs which causes shortness of breath on exertion. Asbestosis has been described almost exclusively in workers with occupational exposure to high concentrations of asbestos-containing dusts. In asbestosis, there appears to be a very strong dose response relationship in that the greater the concentration of asbestos fibers, and the longer the duration of exposure, the greater the likelihood and severity of asbestosis.

As with the other asbestos related health effects, there is usually a time lag or latent period of several years before the development of disease. Once acquired, asbestosis tends to progress slowly, sometimes for years after asbestos exposure has ended.

CDB BUILDING NO.'S

B4301-B4302-B4303-B4304

The individual residential units were constructed in 1974 with common walls as a single building at the Howe Mental Health Facility. The exterior brick wall system was replaced in 1984 due to structural failure. The major remodeling work required replacement of interior plaster ceiling and walls.

The building is single story and has a combined square footage of 11200 square feet. There are no attics, crawlspace or basement.

The building is used to house patients for the Howe Mental Health Facility.

The exterior material is brick veneer with interior steel channels and studs supporting gypsum board and plaster. Steel columns and beams support bar joist and metal roof deck.

The roof is flat except for a sloped section near the front doors of the individual residential units. The roofs were replaced in 1988. The flat roof is constructed of a single ply roofing system on polyisocyanurate insulation. The pitched roof is steel construction.

The building is heated and cooled by a forced air system.

Under floor and overhead ducts supply air to all rooms in the residence. The HVAC systems appear in good working order. Hot water heaters in the mechanical rooms supply hot water to the building. The energy source for furnaces and hot water heaters is gas.

To the best of our knowledge there has not been any asbestos abatement in this building.

No asbestos was detected in any of the material sampled. Areas assumed to contain asbestos were not sampled and no determination of their content can be made. Any asbestos in this building would cause relatively little hazard.

SUMMARY OF FINDINGS

INSPECTION PHASE I

CDB BUILDING NO./PROJECT NO.: B4301-B4302-B4303-B4304
910-010-010

USER AGENCY: Department of Mental Health/DD

USER LOCATION: (070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477 - Cook
County

BUILDING NAME: Residence Unit 301-302-303-304

INSPECTORS: Vahooman Mirkhaef (I-057)
Jay Fox (I-0471)

HOMOGENEOUS AREA	DESCRIPTION	QUANTITY	NUMBER SAMPLES RECOMMENDED	REMOVAL COST ESTIMATE
SFA	Fire Proofing on Beams	1500	5	
SPA	Veneer Plaster Ceiling and Walls	44000	7	\$572,000
SPB	Plaster Seal Coat	240	3	
SPC	Veneer Plaster Walls and Ceilings (1984)	19000	7	\$247,000
SPD	Cement Plaster Walls Remodeled (1984)	1000	5	
SPE	Gypsum Plaster Ceiling Remodeled (1984)	1000	5	

INSPECTION PHASE I

CDB BUILDING NO./PROJECT NO.:

**B4301-B4302-B4303-B4304
910-010-010**

USER AGENCY:

Department of Mental Health/DD

USER LOCATION:

**(070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477 - Cook
County**

BUILDING NAME:

Residence Unit 301-302-303-304

INSPECTORS:

**Vahooman Mirkhaef (I-057)
Jay Fox (I-0471)**

HOMOGENEOUS AREA	DESCRIPTION	QUANTITY	NUMBER SAMPLES RECOMMENDED	REMOVAL COST ESTIMATE
SPF	Veneer Plaster Walls and Ceilings (1989)	60	3	
TJA	Mag Block Pipe Fitting	120	3	
MFA	1 X 1 Floor Tile and Mastic	9600	Assumed ACM	
MMA	Tape	300	3	
MMB	Fire Door - Wood Insulation	7	Assumed ACM	
MMC	Fire Door - Metal	12	Assumed ACM	

INSPECTION PHASE I

CDB BUILDING NO./PROJECT NO.:

**B4301-B4302-B4303-B4304
910-010-010**

USER AGENCY:

Department of Mental Health/DD

USER LOCATION:

**(070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477 - Cook
County**

BUILDING NAME:

Residence Unit 301-302-303-304

INSPECTORS:

**Vahooman Mirkhaef (I-057)
Jay Fox (I-0471)**

HOMOGENEOUS AREA	DESCRIPTION	QUANTITY	NUMBER SAMPLES RECOMMENDED	REMOVAL COST ESTIMATE
MMD	Exhaust Backdraft Damper Insulation	60	Assumed ACM	
MME	Fire Damper Insulation	60	Assumed ACM	
MTA	Under Floor Duct Pipe Transite	1200	Assumed ACM	
MTB	Light Cover	16	Assumed ACM	

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.: B4301-B4302-B4303-B4304
901-010-010

USER AGENCY: Department of Mental Health

USER LOCATION: (070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477

BUILDING NAME: Residence Unit 301-302-302-304

INSPECTORS: Jay Fox
Vahooman Mirkhaef
David Sloman

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
MFA	1 X 1 Floor Tile and Mastic	X			
MMB	Fire Door	X			
MMC	Fire Door-Metal Insulation	X			
MMD	Exhaust Backdraft Damper Insulation	X			
MME	Fire Damper Insulation	X			
MTA	Under Floor Duct Pipe Transite	X			

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.:

**B4301-B4302-B4303-B4304
901-010-010**

USER AGENCY:

Department of Mental Health

USER LOCATION:

**(070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477**

BUILDING NAME:

Residence Unit 301-302-302-304

INSPECTORS:

**Jay Fox
Vahooman Mirkhaef
David Sloman**

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
MTB	Light Cover	X			
SFA	Fire Proofing on Beams			7	
SPA	Veneer Plaster Ceiling and Walls			7	
SPB	Plaster Seal Coat			5	
SPC	Veneer Plaster Walls and Ceilings			7	
SPD	Cement Plaster Walls Remodeled			7	

SUMMARY OF FINDINGS

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.: B4301-B4302-B4303-B4304
901-010-010

USER AGENCY: Department of Mental Health

USER LOCATION: (070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477

BUILDING NAME: Residence Unit 301-302-302-304

INSPECTORS: Jay Fox
Vahooman Mirkhaef
David Sloman

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
SPE	Gypsum Plaster Ceiling Remodeled			7	
SPF	Veneer Plaster Walls and Ceilings (1989)			3	
TJA	Cementitious Pipe Fitting			3	
MMA	Tape			3	

FORM 6 SUMMARY OF FINDINGS

Residence Units 301, 302,
303 & 304

MANAGEMENT PLAN PHASE III

BUILDING NAME

B4301, B4302,

LIST IN ORDER OF RESPONSE ACTION NUMBER

C.D.B. BUILDING NUMBER

B4303 & B4304

HOMOGENEOUS AREA	MATERIAL DESCRIPTION	ACM CONTENT (%)			ASSUMED ACM	DAMAGE ASSESSMENT							RESPONSE ACTION			
		CHRYSOTILE	AMOSITE	OTHER		NO DAMAGE	SALENT DAMAGE	SIGNIFICANT DAMAGE	NO POTENTIAL DAMAGE	POTENTIAL SIGNIFICANT DAMAGE	POTENTIAL DAMAGE	NUMBER		DESCRIPTION (I.E. REMOVE, REPAIR, ENCLOSE, ENCAPSULATE, OR O&M)		
MFA	1 x 1 Floor Tile and Mastic				X											O&M
MMB	Wood Fire Door Insulation				X											O&M
MMC	Metal Fire Door Insulation				X											O&M
MMD	Insulation at Back-Draft Dampers				X											O&M
MME	Insulation at Fire Dampers				X											O&M
MTA	Under Floor Duct (Transite)				X											O&M
MTB	Transite Light Covers				X											O&M

ASBESTOS MANAGEMENT PLAN REPORT

CDB PROJECT NUMBER - 910-010-010

HOWE MENTAL HEALTH CENTER
DEPARTMENT OF MENTAL HEALTH AND
DEVELOPMENTAL DISABILITIES
RESIDENCE UNITS 305, 306 & 307
C.D.B. BUILDING #B4305, B4306 & B4307
7600 WEST 183RD STREET
TINLEY PARK, IL 60477

STATE OF ILLINOIS

CAPITAL DEVELOPMENT BOARD

SPRINGFIELD, ILLINOIS

BY:
FOX & FOX ARCHITECTS & ENGINEERS
330 SOUTH WELLS STREET
CHICAGO, IL 60606
(312) 427-5592

DATE: OCT. 10, 1994

DATE SIGNED: 10/26/94

EXP. DATE: 11/30/96

IDPH LICENSE: 100-0471

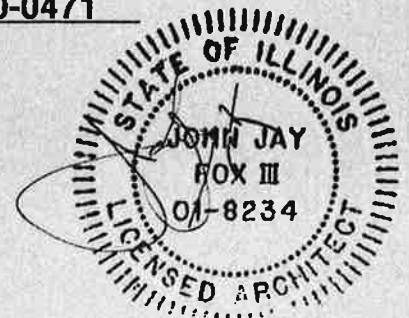
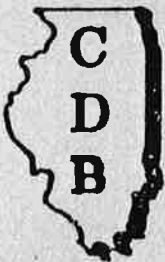


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- VI. Floor Plans
- VII. MFA - 1 x 1 Floor Tile and Mastic
- VIII. MMB - Fire Door - Wood
- IX. MMC - Fire Door - Metal
- X. MMD - Exhaust Back-Draft Damper Insulation
- XI. MME - Fire Damper Insulation
- XII. MTA - Under Floor Duct Pipe Transite
- XIII. MTB - Light Cover
- XIV. SFA - Fire Proofing on Beams
- XV. SPA - Veneer Plaster Ceiling and Walls
- XVI. SPB - Plaster Seal Coat
- XVII. SPC - Veneer Plaster Walls and Ceilings (1984)
- XVIII. SPD - Cement Plaster Walls Remodeled (1984)
- XIX. SPE - Gypsum Plaster Ceiling Remodeled (1984)
- XX. SPF - Veneer Plaster Walls and Ceilings (1989)
- XXI. TJA - Cementitious Pipe Fitting
- XXII. MMA - Tape

- XXIII. Cost Summary
- XXIV. Chain of Custody
- XXV. Licenses and Accreditations
- XXVI. Operation and Maintenance Plan

CAPITAL DEVELOPMENT BOARD BUILDING INVENTORY FORM 3

C.D.B. BUILDING NUMBER: B4305 BUILDING NAME: Residence Unit 305

USING AGENCY: 321 Dept. Of Mental Health/DD LOCATION: 070 Howe Development Center

BLDG. ADDRESS: 7600 West 183rd Street CITY: Tinley Park

ZIP: 60477 COUNTY: Cook HOUSE/SENATE DISTRICT: 037/19

YEAR CONSTRUCTED: 1974 GROSS SQ. FT. 2,800 TOTAL FLOORS: 1 FLOORS BELOW GRADE: 0

USE OF BUILDING WHEN CONSTRUCTED(C): Health Care CURRENT PRIMARY USE (P): Health Care CURRENT SECONDARY USE (S): N/A

PREDOMINATE CONSTRUCTION TYPE: Brick

FOR USING AGENCY USE ONLY: _____

BUILDING NOTES: _____

(FOR C.D.B. USE ONLY) ASBESTOS STATUS: _____

Handwritten mark

CAPITAL DEVELOPMENT BOARD BUILDING INVENTORY FORM 3

C.D.B. BUILDING NUMBER: B4306 BUILDING NAME: Residence Unit 306

USING AGENCY: 321 Dept. Of Mental Health/DD LOCATION: 070 Howe Development Center

BLDG. ADDRESS: 7600 West 183rd Street CITY: Tinley Park

ZIP: 60477 COUNTY: Cook HOUSE/SENATE DISTRICT: 037/19

YEAR CONSTRUCTED: 1974 GROSS SQ. FT. 2,800 TOTAL FLOORS: 1 FLOORS BELOW GRADE: 0

USE OF BUILDING WHEN CONSTRUCTED(C): Health Care CURRENT PRIMARY USE (P): Health Care CURRENT SECONDARY USE (S): N/A

PREDOMINATE CONSTRUCTION TYPE: Brick

FOR USING AGENCY USE ONLY:

BUILDING NOTES:

(FOR C.D.B. USE ONLY)
ASBESTOS STATUS:

H-1

CAPITAL DEVELOPMENT BOARD BUILDING INVENTORY FORM 3

C.D.B. BUILDING NUMBER: B4307 BUILDING NAME: Residence Unit 307

USING AGENCY: 321 Dept. Of Mental Health/DD LOCATION: 070 Howe Development Center

BLDG. ADDRESS: 7600 West 183rd Street CITY: Tinley Park

ZIP: 60477 COUNTY: Cook HOUSE/SENATE DISTRICT: 037/19

YEAR CONSTRUCTED: 1974 GROSS SQ. FT. 2,800 TOTAL FLOORS: 1 FLOORS BELOW GRADE: 0

USE OF BUILDING WHEN CONSTRUCTED(C): Health Care CURRENT PRIMARY USE (P): Health Care CURRENT SECONDARY USE (S): N/A

PREDOMINATE CONSTRUCTION TYPE: Brick

FOR USING AGENCY USE ONLY: _____

BUILDING NOTES: _____

(FOR C.D.B. USE ONLY)
ASBESTOS STATUS: _____

F-1

FORM 4

INTRODUCTION TO THE MANAGEMENT PLAN

A. Policy Statement

This Management Plan is intended to be a working document which will serve as a guide to staff, employees, occupants and visitors in minimizing the risk of exposure to asbestos fibers. The State of Illinois recognizes the serious health hazards associated with asbestos fibers. The State has conducted an inspection of this facility in order to determine whether asbestos is present, and if so, where the asbestos is located.

This Management Plan sets forth the recommended response actions for the ACM (asbestos containing material) within this facility. Further, where required, an Operations & Maintenance (O & M) Program has been established which will be implemented by facility staff.

This Plan has been reviewed by CDB, the Contracting Agency and the Using Agency and represents the policies and procedures to be implemented with respect to any ACM within this facility.

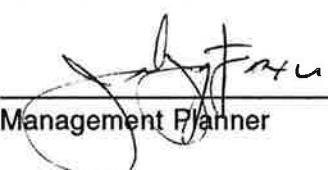
Dated: _____

Capital Development Board Representative

Dated: _____

Agency (Designated Person)

Dated: 10/26/94



Management Planner

The data linking asbestos exposure to mesothelioma is based upon many of the same epidemiological studies of workers that demonstrated an association between asbestos exposure and lung cancer. The findings are somewhat different than for lung cancer. Lower non-occupational exposures have also been associated with mesothelioma in addition to occupational exposure. Therefore, lower levels of exposure to asbestos as found in some non-occupational settings may give rise to mesothelioma. Secondly, the nature of the dose response relationship may be different from that of lung cancer. The risk continues to increase as the number of years since first exposure increases. In many cases, a latent period of more than 40 years has been described.

Gastrointestinal Cancer - Several of the epidemiological studies of workers occupationally exposed to asbestos have shown increased risks of gastrointestinal cancer including cancers of the colon, rectum, stomach and esophagus. The risk, however, does not appear to be as great as for lung cancer. To date, no association has been found between asbestos in drinking water and gastrointestinal cancer.

Asbestos Related Pleural Disease - This category of health effects includes fibrous and sometimes calcified plaques as well as diffuse thickening of the pleura and the pleural effusion. These are non-cancerous changes of the membranes surrounding the lungs and commonly occur many years after asbestos exposure. The presence of plaques suggests prior asbestos exposure but usually does not cause any symptoms or respiratory impairment.

Asbestosis - Asbestosis is a disabling lung disorder consisting of generalized scarring of the lungs which causes shortness of breath on exertion. Asbestosis has been described almost exclusively in workers with occupational exposure to high concentrations of asbestos-containing dusts. In asbestosis, there appears to be a very strong dose response relationship in that the greater the concentration of asbestos fibers, and the longer the duration of exposure, the greater the likelihood and severity of asbestosis.

As with the other asbestos related health effects, there is usually a time lag or latent period of several years before the development of disease. Once acquired, asbestosis tends to progress slowly, sometimes for years after asbestos exposure has ended.

CDB BUILDING NO.'S

B4305-B4306-B4307

The individual residential units were constructed in 1974 with common walls as a single building at the Howe Mental Health Facility. The exterior brick wall system was replaced in 1984 due to structural failure. The major remodeling work required replacement of interior plaster ceiling and walls.

The building is single story and has a combined square footage of 8400 square feet. There are no attics, crawlspace or basement.

The building is used to house patients for the Howe Mental Health Facility.

The exterior material is brick veneer with interior steel channels and studs supporting gypsum board and plaster. Steel columns and beams support bar joist and metal roof deck.

The roof is flat except for a sloped section near the front doors of the individual residential units. The roofs were replaced in 1988. The flat roof is constructed of a single ply roofing system on polyisocyanurate insulation. The pitched roof is steel construction.

The building is heated and cooled by a forced air system.

Under floor and overhead ducts supply air to all rooms in the residence. The HVAC systems appear in good working order. Hot water heaters in the mechanical rooms supply hot water to the building. The energy source for furnaces and hot water heaters is gas.

To the best of our knowledge there has not been any asbestos abatement in this building.

No asbestos was detected in any of the material sampled. Areas assumed to contain asbestos were not sampled and no determination of their content can be made. Any asbestos in this building would cause relatively little hazard.

SUMMARY OF FINDINGS

INSPECTION PHASE I

CDB BUILDING NO./PROJECT NO.: B4305-B4306-B4307
910-010-010

USER AGENCY: Department of Mental Health/DD

USER LOCATION: (070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477 - Cook
County

BUILDING NAME: Residence Unit 305-306-307

INSPECTORS: Vahooman Mirkhaef (I-057)
Jay Fox (I-0471)

HOMOGENEOUS AREA	DESCRIPTION	QUANTITY	NUMBER SAMPLES RECOMMENDED	REMOVAL COST ESTIMATE
SFA	Fire Proofing on Beams	1125	5	
SPA	Veneer Plaster Ceiling and Walls	33000	7	\$429,000
SPB	Plaster Seal Coat	180	3	
SPC	Veneer Plaster Walls and Ceilings (1984)	14250	7	\$185,250
SPD	Cement Plaster Walls Remodeled (1984)	750	3	
SPE	Gypsum Plaster Ceiling Remodeled (1984)	750	3	

INSPECTION PHASE I

CDB BUILDING NO./PROJECT NO.:

**B4305-B4306-B4307
910-010-010**

USER AGENCY:

Department of Mental Health/DD

USER LOCATION:

**(070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477 - Cook
County**

BUILDING NAME:

Residence Unit 305-306-307

INSPECTORS:

**Vahooman Mirkhaef (I-057)
Jay Fox (I-0471)**

HOMOGENEOUS AREA	DESCRIPTION	QUANTITY	NUMBER SAMPLES RECOMMENDED	REMOVAL COST ESTIMATE
SPF	Veneer Plaster Walls and Ceilings (1989)	45	3	
TJA	Mag Block Pipe Fitting	90	3	
MFA	1 X 1 Floor Tile and Mastic	7200	Assumed ACM	
MMA	Tape	225	3	
MMB	Fire Door - Wood Insulation	5	Assumed ACM	
MMC	Fire Door - Metal	9	Assumed ACM	

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.: B4305-B4306-B4307
901-010-010

USER AGENCY: Department of Mental Health

USER LOCATION: (070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477

BUILDING NAME: Residence Unit 305-306-307

INSPECTORS: Jay Fox
Vahooman Mirkhaef

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
MFA	1 X 1 Floor Tile and Mastic	X			
MMB	Fire Door - Wood Insulation	X			
MMC	Fire Door - Metal	X			
MMD	Exhaust Backdraft Damper Insulation	X			
MME	Fire Damper Insulation	X			

M

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.: B4305-B4306-B4307
901-010-010

USER AGENCY: Department of Mental Health

USER LOCATION: (070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477

BUILDING NAME: Residence Unit 305-306-307

INSPECTORS: Jay Fox
Vahooman Mirkhaef

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
SPD	Cement Plaster Walls Remodeled			7	
SPE	Gypsum Plaster Ceiling Remodeled			7	
SPF	Veneer Plaster Walls and Ceilings (1989)			3	
TJA	Cementitious Pipe Fitting			3	
MMA	Tape			3	

FORM 6 - SUMMARY OF FINDINGS

Residence Units 305, 306 & 307

B4305, B4306 & B4307

MANAGEMENT PLAN PHASE III

LIST IN ORDER OF RESPONSE ACTION NUMBER

HOMOGENEOUS AREA	MATERIAL DESCRIPTION	ACM CONTENT (%)			ASSUMED ACM	DAMAGE ASSESSMENT							RESPONSE ACTION	DESCRIPTION (I.E. REMOVE, REPAIR, ENCLOSE, ENCAPSULATE, OR O&M)		
		CHRYSOTILE	AMOSITE	OTHER		NO DAMAGE	SALENT DAMAGE	SIGNIFICANT DAMAGE	NO POTENTIAL DAMAGE	POTENTIAL DAMAGE	POTENTIAL SIGNIFICANT DAMAGE	NUMBER				
MFA	1 x 1 Floor Tile and Mastic				X										8	O&M
MMB	Wood Fire Door Insulation				X										8	O&M
MMC	Metal Fire Door Insulation				X										8	O&M
MMD	Insulation at Back-Draft Dampers				X										8	O&M
MME	Insulation at Fire Dampers				X										8	O&M
MTA	Under Floor Duct (Transite)				X										8	O&M
MTB	Transite Light Covers				X										8	O&M

ASBESTOS MANAGEMENT PLAN REPORT

CDB PROJECT NUMBER - 910-010-010

HOWE MENTAL HEALTH CENTER
DEPARTMENT OF MENTAL HEALTH AND
DEVELOPMENTAL DISABILITIES
RESIDENCE UNITS 308, 309 & 310
C.D.B. BUILDING #B4308, B4309 & B4310
7600 WEST 183RD STREET
TINLEY PARK, IL 60477

STATE OF ILLINOIS

CAPITAL DEVELOPMENT BOARD

SPRINGFIELD, ILLINOIS

BY:
FOX & FOX ARCHITECTS & ENGINEERS
330 SOUTH WELLS STREET
CHICAGO, IL 60606
(312) 427-5592

DATE: OCT. 10, 1994

DATE SIGNED: 10/26/94

EXP. DATE: 11/30/96

IDPH LICENSE: 100-0471

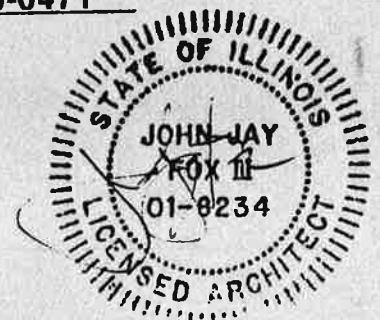
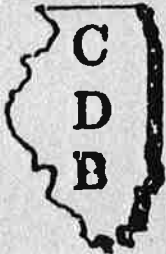


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- VIII. MMB - Fire Door - Wood
- IX. MMC - Fire Door - Metal
- X. MMD - Exhaust Back-Draft Damper Insulation
- XI. MME - Fire Damper Insulation
- XII. MTA - Under Floor Duct Pipe Transite
- XIII. MTB - Light Cover
- XIV. SFA - Fire Proofing on Beams
- XV. SPA - Veneer Plaster Ceiling and Walls
- XVI. SPB - Plaster Seal Coat
- XVII. SPC - Veneer Plaster Walls and Ceilings (1984)
- XVIII. SPD - Cement Plaster Walls Remodeled (1984)
- XIX. SPE - Gypsum Plaster Ceiling Remodeled (1984)
- XX. SPF - Veneer Plaster Walls and Ceilings (1989)
- XXI. TJA - Cementitious Pipe Fitting
- XXII. MMA - Tape

- XXIII. Cost Summary
- XXIV. Chain of Custody
- XXV. Licenses and Accreditations
- XXVI. Operation and Maintenance Plan

CAPITAL DEVELOPMENT BOARD BUILDING INVENTORY FORM 3

C.D.B. BUILDING NUMBER: B4308 BUILDING NAME: Residence Unit 308

USING AGENCY: 321 Dept. Of Mental Health/DD LOCATION: 070 Howe Development Center

BLDG. ADDRESS: 7600 West 183rd Street CITY: Tinley Park

ZIP: 60477 COUNTY: Cook HOUSE/SENATE DISTRICT: 037/19

YEAR CONSTRUCTED: 1974 GROSS SQ. FT. 2,800 TOTAL FLOORS: 1 FLOORS BELOW GRADE: 0

USE OF BUILDING WHEN CONSTRUCTED(C): Health Care CURRENT PRIMARY USE (P): Health Care CURRENT SECONDARY USE (S): N/A

PREDOMINATE CONSTRUCTION TYPE: Brick

FOR USING AGENCY USE ONLY: _____

BUILDING NOTES: _____

(FOR C.D.B. USE ONLY) ASBESTOS STATUS: _____

CAPITAL DEVELOPMENT BOARD BUILDING INVENTORY FORM 3

C.D.B. BUILDING NUMBER: B4309 BUILDING NAME: Residence Unit 309

USING AGENCY: 321 Dept. Of Mental Health/DD LOCATION: 070 Howe Development Center

BLDG. ADDRESS: 7600 West 183rd Street CITY: Tinley Park

ZIP: 60477 COUNTY: Cook HOUSE/SENATE DISTRICT: 037/19

YEAR CONSTRUCTED: 1974 GROSS SQ. FT. 2,800 TOTAL FLOORS: 1 FLOORS BELOW GRADE: 0

USE OF BUILDING WHEN CONSTRUCTED(C): Health Care CURRENT PRIMARY USE (P): Health Care CURRENT SECONDARY USE (S): N/A

PREDOMINATE CONSTRUCTION TYPE: Brick

FOR USING AGENCY USE ONLY: _____

BUILDING NOTES: _____

(FOR C.D.B. USE ONLY) ASBESTOS STATUS: _____

A-1

CAPITAL DEVELOPMENT BOARD BUILDING INVENTORY FORM 3

C.D.B. BUILDING NUMBER: B4310 BUILDING NAME: Residence Unit 310

USING AGENCY: 321 Dept. Of Mental Health/DD LOCATION: 070 Howe Development Center

BLDG. ADDRESS: 7600 West 183rd Street CITY: Tinley Park

ZIP: 60477 COUNTY: Cook HOUSE/SENATE DISTRICT: 037/19

YEAR CONSTRUCTED: 1974 GROSS SQ. FT. 2,800 TOTAL FLOORS: 1 FLOORS BELOW GRADE: 0

USE OF BUILDING WHEN CONSTRUCTED(C): Health Care CURRENT PRIMARY USE (P): Health Care CURRENT SECONDARY USE (S): N/A

PREDOMINATE CONSTRUCTION TYPE: Brick

FOR USING AGENCY USE ONLY: _____

BUILDING NOTES: _____

(FOR C.D.B. USE ONLY)
ASBESTOS STATUS: _____

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FORM 4

INTRODUCTION TO THE MANAGEMENT PLAN

A Policy Statement

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This Management Plan sets forth the recommended response actions for the ACM (asbestos containing material) within this facility. Further, where required, an Operations & Maintenance (O & M) Program has been established which will be implemented by facility staff.

This Plan has been reviewed by CDB, the Contracting Agency and the Using Agency and represents the policies and procedures to be implemented with respect to any ACM within this facility.

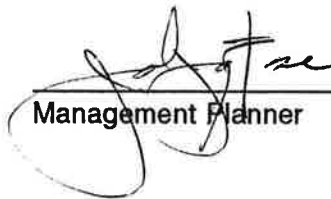
Dated: _____

Capital Development Board Representative

Dated: _____

Agency (Designated Person)

Dated: 10/26/94



Management Planner

The data linking asbestos exposure to mesothelioma is based upon many of the same epidemiological studies of workers that demonstrated an association between asbestos exposure and lung cancer. The findings are somewhat different than for lung cancer. Lower non-occupational exposures have also been associated with mesothelioma in addition to occupational exposure. Therefore, lower levels of exposure to asbestos as found in some non-occupational settings may give rise to mesothelioma. Secondly, the nature of the dose response relationship may be different from that of lung cancer. The risk continues to increase as the number of years since first exposure increases. In many cases, a latent period of more than 40 years has been described.

Gastrointestinal Cancer - Several of the epidemiological studies of workers occupationally exposed to asbestos have shown increased risks of gastrointestinal cancer including cancers of the colon, rectum, stomach and esophagus. The risk, however, does not appear to be as great as for lung cancer. To date, no association has been found between asbestos in drinking water and gastrointestinal cancer.

Asbestos Related Pleural Disease - This category of health effects includes fibrous and sometimes calcified plaques as well as diffuse thickening of the pleura and the pleural effusion. These are non-cancerous changes of the membranes surrounding the lungs and commonly occur many years after asbestos exposure. The presence of plaques suggests prior asbestos exposure but usually does not cause any symptoms or respiratory impairment.

Asbestosis - Asbestosis is a disabling lung disorder consisting of generalized scarring of the lungs which causes shortness of breath on exertion. Asbestosis has been described almost exclusively in workers with occupational exposure to high concentrations of asbestos-containing dusts. In asbestosis, there appears to be a very strong dose response relationship in that the greater the concentration of asbestos fibers, and the longer the duration of exposure, the greater the likelihood and severity of asbestosis.

As with the other asbestos related health effects, there is usually a time lag or latent period of several years before the development of disease. Once acquired, asbestosis tends to progress slowly, sometimes for years after asbestos exposure has ended.

CDB BUILDING NO.'S

B4308-B4309-B4310

The individual residential units were constructed in 1974 with common walls as a single building at the Howe Mental Health Facility. The exterior brick wall system was replaced in 1984 due to structural failure. The major remodeling work required replacement of interior plaster ceiling and walls.

The building is single story and has a combined square footage of 8400 square feet. There are no attics, crawlspace or basement.

The building is used to house patients for the Howe Mental Health Facility.

The exterior material is brick veneer with interior steel channels and studs supporting gypsum board and plaster. Steel columns and beams support bar joist and metal roof deck.

The roof is flat except for a sloped section near the front doors of the individual residential units. The roofs were replaced in 1988. The flat roof is constructed of a single ply roofing system on polyisocyanurate insulation. The pitched roof is steel construction.

The building is heated and cooled by a forced air system.

Under floor and overhead ducts supply air to all rooms in the residence. The HVAC systems appear in good working order. Hot water heaters in the mechanical rooms supply hot water to the building. The energy source for furnaces and hot water heaters is gas.

To the best of our knowledge there has not been any asbestos abatement in this building.

No asbestos was detected in any of the material sampled. Areas assumed to contain asbestos were not sampled and no determination of their content can be made. Any asbestos in this building would cause relatively little hazard.

SUMMARY OF FINDINGS

INSPECTION PHASE I

CDB BUILDING NO./PROJECT NO.: B4308-B4309-B4310
 910-010-010

USER AGENCY: Department of Mental Health/DD

USER LOCATION: (070) Howe Mental Health Center
 7600 W. 183rd Street
 Tinley Park, Illinois 60477 - Cook
 County

BUILDING NAME: Residence Unit 308-309-310

INSPECTORS: Vahooman Mirkhaef (I-057)
 Jay Fox (I-0471)

HOMOGENEOUS AREA	DESCRIPTION	QUANTITY	NUMBER SAMPLES RECOMMENDED	REMOVAL COST ESTIMATE
SFA	Fire Proofing on Beams	1125	5	
SPA	Veneer Plaster Ceiling and Walls	33000	7	\$429,000
SPB	Plaster Seal Coat	180	3	
SPC	Veneer Plaster Walls and Ceilings (1984)	14250	7	\$185,250
SPD	Cement Plaster Walls Remodeled (1984)	750	3	
SPE	Gypsum Plaster Ceiling Remodeled (1984)	750	3	

INSPECTION PHASE I

CDB BUILDING NO./PROJECT NO.:

B4308-B4309-B4310
910-010-010

USER AGENCY:

Department of Mental Health/DD

USER LOCATION:

(070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477 - Cook
County

BUILDING NAME:

Residence Unit 308-309-310

INSPECTORS:

Vahooman Mirkhaef (I-057)
Jay Fox (I-0471)

HOMOGENEOUS AREA	DESCRIPTION	QUANTITY	NUMBER SAMPLES RECOMMENDED	REMOVAL COST ESTIMATE
SPF	Veneer Plaster Walls and Ceilings (1989)	45	3	
TJA	Mag Block Pipe Fitting	90	3	
MFA	1 X 1 Floor Tile and Mastic	7200	Assumed ACM	
MMA	Tape	225	3	
MMB	Fire Door - Wood Insulation	5	Assumed ACM	
MMC	Fire Door - Metal	9	Assumed ACM	

INSPECTION PHASE I

CDB BUILDING NO./PROJECT NO.:

**B4308-B4309-B4310
910-010-010**

USER AGENCY:

Department of Mental Health/DD

USER LOCATION:

**(070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477 - Cook
County**

BUILDING NAME:

Residence Unit 308-309-310

INSPECTORS:

**Vahooman Mirkhaef (I-057)
Jay Fox (I-0471)**

HOMOGENEOUS AREA	DESCRIPTION	QUANTITY	NUMBER SAMPLES RECOMMENDED	REMOVAL COST ESTIMATE
MMD	Exhaust Backdraft Damper Insulation	45	Assumed ACM	
MME	Fire Damper Insulation	45	Assumed ACM	
MTA	Under Floor Duct Pipe Transite	900	Assumed ACM	
MTB	Light Cover	12	Assumed ACM	

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.: B4308-B4309-B4310
 901-010-010

USER AGENCY: Department of Mental Health

USER LOCATION: (070) Howe Mental Health Center
 7600 W. 183rd Street
 Tinley Park, Illinois 60477

BUILDING NAME: Residence Unit 308-309-310

INSPECTORS: Jay Fox
 Vahooman Mirkhaef

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
MFA	1 X 1 Floor Tile and Mastic	X			
MMB	Fire Door - Wood Insulation	X			
MMC	Fire Door - Metal	X			
MMD	Exhaust Backdraft Damper Insulation	X			
MME	Fire Damper Insulation	X			

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.:

**B4308-B4309-B4310
901-010-010**

USER AGENCY:

Department of Mental Health

USER LOCATION:

**(070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477**

BUILDING NAME:

Residence Unit 308-309-310

INSPECTORS:

**Jay Fox
Vahooman Mirkhaef**

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
MTA	Under Floor Duct Pipe Transite	X			
MTB	Light Cover	X			
SFA	Fire Proofing on Beams			7	
SPA	Veneer Plaster Ceiling and Walls			7	
SPB	Plaster Seal Coat			5	
SPC	Veneer Plaster Walls and Ceilings			7	

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.:

**B4308-B4309-B4310
901-010-010**

USER AGENCY:

Department of Mental Health

USER LOCATION:

**(070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477**

BUILDING NAME:

Residence Unit 308-309-310

INSPECTORS:

**Jay Fox
Vahooman Mirkhaef**

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
SPD	Cement Plaster Walls Remodeled			7	
SPE	Gypsum Plaster Ceiling Remodeled			7	
SPF	Veneer Plaster Walls and Ceilings (1989)			3	
TJA	Cementitious Pipe Fitting			3	
MMA	Tape			3	

FORM 6 SUMMARY OF FINDINGS

MANAGEMENT PLAN PHASE III

Residence Units 308, ... & 310

BUILDING NAME

LIST IN ORDER OF RESPONSE ACTION NUMBER

C.D.B. BUILDING NUMBER B4308, B4309 & B4310

HOMOGENEOUS AREA	MATERIAL DESCRIPTION	ACM CONTENT (%)			DAMAGE ASSESSMENT							RESPONSE ACTION			
		CHRYSO TILE	AMOSITE	OTHER	ASSUMED ACM	NO DAMAGE	SALIENT	DAMAGE	SIGNIFICANT DAMAGE	NO POTENTIAL DAMAGE	POTENTIAL SIGNIFICANT DAMAGE		POTENTIAL DAMAGE	NUMBER	DESCRIPTION (I.E. REMOVE, REPAIR, ENCLOSE, ENCAPSULATE, OR O&M)
MFA	1 x 1 Floor Tile and Mastic				X									8	O&M
MMB	Wood Fire Door Insulation				X									8	O&M
MMC	Metal Fire Door Insulation				X									8	O&M
MMD	Insulation at Back-Draft Dampers				X									8	O&M
MME	Insulation at Fire Dampers				X									8	O&M
MTA	Under Floor Duct (Transite)				X									8	O&M
MTB	Transite Light Covers				X									8	O&M

ASBESTOS MANAGEMENT PLAN REPORT

CDB PROJECT NUMBER - 910-010-010

HOWE MENTAL HEALTH CENTER
DEPARTMENT OF MENTAL HEALTH AND
DEVELOPMENTAL DISABILITIES
RESIDENCE UNITS 401, 402, 403 & 404
C.D.B. BUILDING #B4401, B4402, B4403 & B4404
7600 WEST 183RD STREET
TINLEY PARK, IL 60477

STATE OF ILLINOIS

CAPITAL DEVELOPMENT BOARD

SPRINGFIELD, ILLINOIS

BY:
FOX & FOX ARCHITECTS & ENGINEERS
330 SOUTH WELLS STREET
CHICAGO, IL 60606
(312) 427-5592

DATE: OCT. 10, 1994

DATE SIGNED: 10/26/94

EXP. DATE: _____

11/30/96

IDPH LICENSE: _____

100-0471

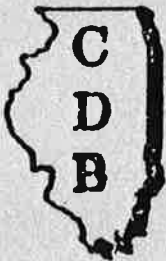


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CDB BUILDING NO.: B4401, B4402, B4403 & B4404
Residence Units 401, 402, 403 & 404

- I. Building Inventory
- II. Introduction
- III. Narrative Building Description
- IV. Summary of Findings
- V. Site Plan
- VI. Floor Plans
- VII. MFA - 1 x 1 Floor Tile and Mastic
- VIII. MMB - Fire Door - Wood
- IX. MMC - Fire Door - Metal
- X. MMD - Exhaust Back-Draft Damper Insulation
- XI. MME - Fire Damper Insulation
- XII. MMF - Built-Up Roof and Flashings
- XIII. MTA - Under Floor Duct Pipe Transite
- XIV. MTB - Light Cover
- XV. SFA - Fire Proofing on Beams
- XVI. SPA - Veneer Plaster Ceiling and Walls
- XVII. SPB - Plaster Seal Coat
- XVIII. SPC - Veneer Plaster Walls and Ceilings (1979)
- XIX. SPD - Cement Plaster Walls Remodeled (1979)
- XX. SPE - Gypsum Plaster Ceiling Remodeled (1979)
- XXI. SPF - Veneer Plaster Walls and Ceilings (1989)
- XXII. TJA - Cementitious Pipe Fitting
- XXIII. MMA - Tape

- XXIV. Cost Summary
- XXV. Chain of Custody
- XXVI. Licenses and Accreditations
- XXVII. Operation and Maintenance Plan

CAPITAL DEVELOPMENT BOARD BUILDING INVENTORY FORM 3

C.D.B. BUILDING NUMBER: B4401 BUILDING NAME: Residence Unit 401

USING AGENCY: 321 Dept. Of Mental Health/DD LOCATION: 070 Howe Development Center

BLDG. ADDRESS: 7600 West 183rd Street CITY: Tinley Park

ZIP: 60477 COUNTY: Cook HOUSE/SENATE DISTRICT: 037/19

YEAR CONSTRUCTED: 1974 GROSS SQ. FT. 2,800 TOTAL FLOORS: 1 FLOORS BELOW GRADE: 0

USE OF BUILDING WHEN CONSTRUCTED(C): Health Care CURRENT PRIMARY USE (P): Health Care CURRENT SECONDARY USE (S): N/A

PREDOMINATE CONSTRUCTION TYPE: Brick

FOR USING AGENCY USE ONLY:

BUILDING NOTES:

(FOR C.D.B. USE ONLY)
ASBESTOS STATUS:

CAPITAL DEVELOPMENT BOARD BUILDING INVENTORY FORM 3

C.D.B. BUILDING NUMBER: B4402 BUILDING NAME: Residence Unit 402

USING AGENCY: 321 Dept. Of Mental Health/DD LOCATION: 070 Howe Development Center

BLDG. ADDRESS: 7600 West 183rd Street CITY: Tinley Park

ZIP: 60477 COUNTY: Cook HOUSE/SENATE DISTRICT: 037/19

YEAR CONSTRUCTED: 1974 GROSS SQ. FT. 2,800 TOTAL FLOORS: 1 FLOORS BELOW GRADE: 0

USE OF BUILDING WHEN CONSTRUCTED(C): Health Care CURRENT PRIMARY USE (P): Health Care CURRENT SECONDARY USE (S): N/A

PREDOMINATE CONSTRUCTION TYPE: Brick

FOR USING AGENCY USE ONLY: _____

BUILDING NOTES: _____

(FOR C.D.B. USE ONLY) ASBESTOS STATUS: _____

CAPITAL DEVELOPMENT BOARD BUILDING INVENTORY FORM 3

C.D.B. BUILDING NUMBER: B4403 BUILDING NAME: Residence Unit 403

USING AGENCY: 321 Dept. Of Mental Health/DD LOCATION: 070 Howe Development Center

BLDG. ADDRESS: 7600 West 183rd Street CITY: Tinley Park

ZIP: 60477 COUNTY: Cook HOUSE/SENATE DISTRICT: 037/19

YEAR CONSTRUCTED: 1974 GROSS SQ. FT. 2,800 TOTAL FLOORS: 1 FLOORS BELOW GRADE: 0

USE OF BUILDING WHEN CONSTRUCTED(C): Health Care CURRENT PRIMARY USE (P): Health Care CURRENT SECONDARY USE (S): N/A

PREDOMINATE CONSTRUCTION TYPE: Brick

FOR USING AGENCY USE ONLY: _____

BUILDING NOTES: _____

(FOR C.D.B. USE ONLY) ASBESTOS STATUS: _____

CAPITAL DEVELOPMENT BOARD BUILDING INVENTORY FORM 3

C.D.B. BUILDING NUMBER: B4404 **BUILDING NAME:** Residence Unit 404

USING AGENCY: 321 Dept. Of Mental Health/DD **LOCATION:** 070 Howe Development Center

BLDG. ADDRESS: 7600 West 183rd Street **CITY:** Tinley Park **HOUSE/SENATE DISTRICT:** 037/19

ZIP: 60477 **COUNTY:** Cook **TOTAL FLOORS:** 1 **FLOORS BELOW GRADE:** 0

YEAR CONSTRUCTED: 1974 **GROSS SQ. FT.** 2,800 **CURRENT PRIMARY USE (P):** Health Care **CURRENT SECONDARY USE (S):** N/A

USE OF BUILDING WHEN CONSTRUCTED(C): Health Care

PREDOMINATE CONSTRUCTION TYPE: Brick

FOR USING AGENCY USE ONLY:

BUILDING NOTES:

(FOR C.D.B. USE ONLY) ASBESTOS STATUS:

FORM 4

INTRODUCTION TO THE MANAGEMENT PLAN

A. Policy Statement

This Management Plan is intended to be a working document which will serve as a guide to staff, employees, occupants and visitors in minimizing the risk of exposure to asbestos fibers. The State of Illinois recognizes the serious health hazards associated with asbestos fibers. The State has conducted an inspection of this facility in order to determine whether asbestos is present, and if so, where the asbestos is located.

This Management Plan sets forth the recommended response actions for the ACM (asbestos containing material) within this facility. Further, where required, an Operations & Maintenance (O & M) Program has been established which will be implemented by facility staff.

This Plan has been reviewed by CDB, the Contracting Agency and the Using Agency and represents the policies and procedures to be implemented with respect to any ACM within this facility.

Dated: _____

Capital Development Board Representative

Dated: _____

Agency (Designated Person)

Dated: 10/26/94



Management Planner

The data linking asbestos exposure to mesothelioma is based upon many of the same epidemiological studies of workers that demonstrated an association between asbestos exposure and lung cancer. The findings are somewhat different than for lung cancer. Lower non-occupational exposures have also been associated with mesothelioma in addition to occupational exposure. Therefore, lower levels of exposure to asbestos as found in some non-occupational settings may give rise to mesothelioma. Secondly, the nature of the dose response relationship may be different from that of lung cancer. The risk continues to increase as the number of years since first exposure increases. In many cases, a latent period of more than 40 years has been described.

Gastrointestinal Cancer - Several of the epidemiological studies of workers occupationally exposed to asbestos have shown increased risks of gastrointestinal cancer including cancers of the colon, rectum, stomach and esophagus. The risk, however, does not appear to be as great as for lung cancer. To date, no association has been found between asbestos in drinking water and gastrointestinal cancer.

Asbestos Related Pleural Disease - This category of health effects includes fibrous and sometimes calcified plaques as well as diffuse thickening of the pleura and the pleural effusion. These are non-cancerous changes of the membranes surrounding the lungs and commonly occur many years after asbestos exposure. The presence of plaques suggests prior asbestos exposure but usually does not cause any symptoms or respiratory impairment.

Asbestosis - Asbestosis is a disabling lung disorder consisting of generalized scarring of the lungs which causes shortness of breath on exertion. Asbestosis has been described almost exclusively in workers with occupational exposure to high concentrations of asbestos-containing dusts. In asbestosis, there appears to be a very strong dose response relationship in that the greater the concentration of asbestos fibers, and the longer the duration of exposure, the greater the likelihood and severity of asbestosis.

As with the other asbestos related health effects, there is usually a time lag or latent period of several years before the development of disease. Once acquired, asbestosis tends to progress slowly, sometimes for years after asbestos exposure has ended.

CDB BUILDING NO.'S

B4401-B4402-B4403-B4404

The individual residential units were constructed in 1974 with common walls as a single building at the Howe Mental Health Facility. The exterior brick wall system was replaced in 1979 due to structural failure. The major remodeling work required replacement of interior plaster ceiling and walls.

The building is single story and has a combined square footage of 11200 square feet. There are no attics, crawlspace or basement.

The building is used to house patients for the Howe Mental Health Facility.

The exterior material is brick veneer with interior steel channels and studs supporting gypsum board and plaster. Steel columns and beams support bar joist and metal roof deck.

The roof is flat except for a sloped section near the front doors of the individual residential units. The flat roof is constructed of build-up roofing on mineral insulation. The pitch roof is terne metal. The roof is deteriorating and should be replaced.

The building is heated and cooled by a forced air system.

Under floor and overhead ducts supply air to all rooms in the residence. The HVAC systems appear in good working order. Hot water heaters in the mechanical rooms supply hot water to the building. The energy source for furnaces and hot water heaters is gas.

To the best of our knowledge there has not been any asbestos abatement in this building.

No asbestos was detected in any of the material sampled. Areas assumed to contain asbestos were not sampled and no determination of their content can be made. Any asbestos in this building would cause relatively little hazard.

SUMMARY OF FINDINGS

INSPECTION PHASE I

CDB BUILDING NO./PROJECT NO.:

**B4401-B4402-B4403-B4404
910-010-010**

USER AGENCY:

Department of Mental Health/DD

USER LOCATION:

**(070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477 - Cook
County**

BUILDING NAME:

Residence Unit 401-402-403-404

INSPECTORS:

**Vahooman Mirkhaef (I-057)
Jay Fox (I-0471)**

HOMOGENEOUS AREA	DESCRIPTION	QUANTITY	NUMBER SAMPLES RECOMMENDED	REMOVAL COST ESTIMATE
SFA	Fire Proofing on Beams	1500	5	
SPA	Veneer Plaster Ceiling and Walls	44000	7	\$572,000
SPB	Plaster Seal Coat	240	3	
SPC	Veneer Plaster Walls and Ceilings (1979)	19000	7	\$247,000
SPD	Cement Plaster Walls Remodeled (1979)	1000	5	
SPE	Gypsum Plaster Ceiling Remodeled (1979)	1000	5	

INSPECTION PHASE I

CDB BUILDING NO./PROJECT NO.:

**B4401-B4402-B4403-B4404
910-010-010**

USER AGENCY:

Department of Mental Health/DD

USER LOCATION:

**(070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477 - Cook
County**

BUILDING NAME:

Residence Unit 401-402-403-404

INSPECTORS:

**Vahooman Mirkhaef (I-057)
Jay Fox (I-0471)**

HOMOGENEOUS AREA	DESCRIPTION	QUANTITY	NUMBER SAMPLES RECOMMENDED	REMOVAL COST ESTIMATE
SPF	Veneer Plaster Walls and Ceilings (1989)	60	3	
TJA	Mag Block Pipe Fitting	120	3	
MFA	1 X 1 Floor Tile and Mastic	9600	Assumed ACM	
MMA	Tape	300	3	
MMB	Fire Door - Wood Insulation	7	Assumed ACM	
MMC	Fire Door - Metal	12	Assumed ACM	

INSPECTION PHASE I

CDB BUILDING NO./PROJECT NO.:

**B4401-B4402-B4403-B4404
910-010-010**

USER AGENCY:

Department of Mental Health/DD

USER LOCATION:

**(070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477 - Cook
County**

BUILDING NAME:

Residence Unit 401-402-403-404

INSPECTORS:

**Vahooman Mirkhaef (I-057)
Jay Fox (I-0471)**

HOMOGENEOUS AREA	DESCRIPTION	QUANTITY	NUMBER SAMPLES RECOMMENDED	REMOVAL COST ESTIMATE
MMD	Exhaust Backdraft Damper Insulation	60	Assumed ACM	
MME	Fire Damper Insulation	60	Assumed ACM	
MMF	Built-up Roof and Flashings	10816	Assumed ACM	\$ 48,672
MTA	Under Floor Duct Pipe Transite	1200	Assumed ACM	
MTB	Light Cover	16	Assumed ACM	

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.:

**B4401-B4402-B4403-B4404
901-010-010**

USER AGENCY:

Department of Mental Health

USER LOCATION:

**(070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477**

BUILDING NAME:

Residence Unit 401-402-402-404

INSPECTORS:

**Jay Fox
Vahooman Mirkhaef
David Sloman**

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
MFA	1 X 1 Floor Tile and Mastic	X			
MMB	Fire Door	X			
MMC	Fire Door-Metal Insulation	X			
MMD	Exhaust Backdraft Damper Insulation	X			
MME	Fire Damper Insulation	X			
MMF	Built-Up Roof and Flashings	X			
MTA	Under Floor Duct Pipe Transite	X			

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.:

**B4401-B4402-B4403-B4404
901-010-010**

USER AGENCY:

Department of Mental Health

USER LOCATION:

**(070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477**

BUILDING NAME:

Residence Unit 401-402-402-404

INSPECTORS:

**Jay Fox
Vahooman Mirkhaef
David Sloman**

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
MTB	Light Cover	X			
SFA	Fire Proofing on Beams			7	
SPA	Veneer Plaster Ceiling and Walls			7	
SPB	Plaster Seal Coat			5	
SPC	Veneer Plaster Walls and Ceilings(1979)			7	
SPD	Cement Plaster Walls Remodeled (1979)			7	

SUMMARY OF FINDINGS

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.: B4401-B4402-B4403-B4404
901-010-010

USER AGENCY: Department of Mental Health

USER LOCATION: (070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477

BUILDING NAME: Residence Unit 401-402-402-404

INSPECTORS: Jay Fox
Vahooman Mirkhaef
David Sloman

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
SPE	Gypsum Plaster Ceiling Remodeled(1979)			7	
SPF	Veneer Plaster Walls and Ceilings (1989)			3	
TJA	Cementitious Pipe Fitting			3	
MMA	Tape			3	

FORM 6 - SUMMARY OF FINDINGS

MANAGEMENT PLAN PHASE III

Residence Units 401, 402, 403
& 404

BUILDING NAME

LIST IN ORDER OF RESPONSE ACTION NUMBER

C.D.B. BUILDING NUMBER
B4401, B4402, B4403
& B4404

HOMOGENEOUS AREA	MATERIAL DESCRIPTION	ACM CONTENT (%)			DAMAGE ASSESSMENT							RESPONSE ACTION	
		CHRYSOTILE	AMOSITE	OTHER	ASSUMED ACM	NO DAMAGE	SALIENT DAMAGE	SIGNIFICANT DAMAGE	NO POTENTIAL DAMAGE	POTENTIAL DAMAGE	POTENTIAL SIGNIFICANT DAMAGE		NUMBER
MFA	1 x 1 Floor Tile and Mastic				X							8	O&M
MMB	Wood Fire Door Insulation				X							8	O&M
MMC	Metal Fire Door Insulation				X							8	O&M
MMD	Insulation at Back-Draft Dampers				X							8	O&M
MME	Insulation at Fire Dampers				X							8	O&M
MMF	Built-Up Roof, Flashings & Mastic				X							8	O&M
MTA	Under Floor Duct (Transite)				X							8	O&M
MTB	Transite Light Covers				X							8	O&M

ASBESTOS MANAGEMENT PLAN REPORT

CDB PROJECT NUMBER - 910-010-010

HOWE MENTAL HEALTH CENTER
DEPARTMENT OF MENTAL HEALTH AND
DEVELOPMENTAL DISABILITIES
RESIDENCE UNITS 405, 406, & 407
C.D.B. BUILDING #B4405, B4406 & B4407
7600 WEST 183RD STREET
TINLEY PARK, IL 60477

STATE OF ILLINOIS

CAPITAL DEVELOPMENT BOARD

SPRINGFIELD, ILLINOIS

BY:
FOX & FOX ARCHITECTS & ENGINEERS
330 SOUTH WELLS STREET
CHICAGO, IL 60606
(312) 427-5592

DATE: OCT. 10, 1994

DATE SIGNED: 10/20/94

EXP. DATE: 11/30/96

IDPH LICENSE: 100-0471

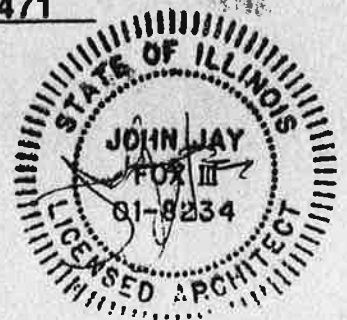
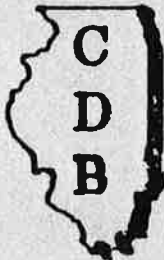


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- II. Introduction
- III. Narrative Building Description
- IV. Summary of Findings
- V. Site Plan
- VI. Floor Plans
- VII. MFA - 1 x 1 Floor Tile and Mastic
- VIII. MMB - Fire Door - Wood
- IX. MMC - Fire Door - Metal
- X. MMD - Exhaust Back-Draft Damper Insulation
- XI. MME - Fire Damper Insulation
- XII. MMF - Built-Up Roof and Flashings
- XIII. MTA - Under Floor Duct Pipe Transite
- XIV. MTB - Light Cover
- XV. SFA - Fire Proofing on Beams
- XVI. SPA - Veneer Plaster Ceiling and Walls
- XVII. SPB - Plaster Seal Coat
- XVIII. SPC - Veneer Plaster Walls and Ceilings (1979)
- XIX. SPD - Cement Plaster Walls Remodeled (1979)
- XX. SPE - Gypsum Plaster Ceiling Remodeled (1979)
- XXI. SPF - Veneer Plaster Walls and Ceilings (1989)
- XXII. TJA - Cementitious Pipe Fitting
- XXIII. MMA - Tape

- XXIV. Cost Summary
- XXV. Chain of Custody
- XXVI. Licenses and Accreditations
- XXVII. Operation and Maintenance Plan

CAPITAL DEVELOPMENT BOARD BUILDING INVENTORY FORM 3

C.D.B. BUILDING NUMBER: B4406 BUILDING NAME: Residence Unit 406

USING AGENCY: 321 Dept. Of Mental Health/DD LOCATION: 070 Howe Development Center

BLDG. ADDRESS: 7600 West 183rd Street CITY: Tinley Park

ZIP: 60477 COUNTY: Cook HOUSE/SENATE DISTRICT: 037/19

YEAR CONSTRUCTED: 1974 GROSS SQ. FT. 2,800 TOTAL FLOORS: 1 FLOORS BELOW GRADE: 0

USE OF BUILDING WHEN CONSTRUCTED(C): Health Care CURRENT PRIMARY USE (P): Health Care CURRENT SECONDARY USE (S): N/A

PREDOMINATE CONSTRUCTION TYPE: Brick

FOR USING AGENCY USE ONLY: _____

BUILDING NOTES: _____

(FOR C.D.B. USE ONLY)
ASBESTOS STATUS: _____

CAPITAL DEVELOPMENT BOARD BUILDING INVENTORY FORM 3

C.D.B. BUILDING NUMBER: B4407 BUILDING NAME: Residence Unit 407

USING AGENCY: 321 Dept. Of Mental Health/DD LOCATION: 070 Howe Development Center

BLDG. ADDRESS: 7600 West 183rd Street CITY: Tinley Park

ZIP: 60477 COUNTY: Cook HOUSE/SENATE DISTRICT: 037/19

YEAR CONSTRUCTED: 1974 GROSS SQ. FT. 2,800 TOTAL FLOORS: 1 FLOORS BELOW GRADE: 0

USE OF BUILDING WHEN CONSTRUCTED(C): Health Care CURRENT PRIMARY USE (P): Health Care CURRENT SECONDARY USE (S): N/A

PREDOMINATE CONSTRUCTION TYPE: Brick

FOR USING AGENCY USE ONLY: _____

BUILDING NOTES: _____

(FOR C.D.B. USE ONLY) ASBESTOS STATUS: _____

FORM 4

INTRODUCTION TO THE MANAGEMENT PLAN

A Policy Statement

This Management Plan is intended to be a working document which will serve as a guide to staff, employees, occupants and visitors in minimizing the risk of exposure to asbestos fibers. The State of Illinois recognizes the serious health hazards associated with asbestos fibers. The State has conducted an inspection of this facility in order to determine whether asbestos is present, and if so, where the asbestos is located.

This Management Plan sets forth the recommended response actions for the ACM (asbestos containing material) within this facility. Further, where required, an Operations & Maintenance (O & M) Program has been established which will be implemented by facility staff.

This Plan has been reviewed by CDB, the Contracting Agency and the Using Agency and represents the policies and procedures to be implemented with respect to any ACM within this facility.

Dated: _____

Capital Development Board Representative

Dated: _____

Agency (Designated Person)

Dated: 10/26/94



Management Planner

The data linking asbestos exposure to mesothelioma is based upon many of the same epidemiological studies of workers that demonstrated an association between asbestos exposure and lung cancer. The findings are somewhat different than for lung cancer. Lower non-occupational exposures have also been associated with mesothelioma in addition to occupational exposure. Therefore, lower levels of exposure to asbestos as found in some non-occupational settings may give rise to mesothelioma. Secondly, the nature of the dose response relationship may be different from that of lung cancer. The risk continues to increase as the number of years since first exposure increases. In many cases, a latent period of more than 40 years has been described.

Gastrointestinal Cancer - Several of the epidemiological studies of workers occupationally exposed to asbestos have shown increased risks of gastrointestinal cancer including cancers of the colon, rectum, stomach and esophagus. The risk, however, does not appear to be as great as for lung cancer. To date, no association has been found between asbestos in drinking water and gastrointestinal cancer.

Asbestos Related Pleural Disease - This category of health effects includes fibrous and sometimes calcified plaques as well as diffuse thickening of the pleura and the pleural effusion. These are non-cancerous changes of the membranes surrounding the lungs and commonly occur many years after asbestos exposure. The presence of plaques suggests prior asbestos exposure but usually does not cause any symptoms or respiratory impairment.

Asbestosis - Asbestosis is a disabling lung disorder consisting of generalized scarring of the lungs which causes shortness of breath on exertion. Asbestosis has been described almost exclusively in workers with occupational exposure to high concentrations of asbestos-containing dusts. In asbestosis, there appears to be a very strong dose response relationship in that the greater the concentration of asbestos fibers, and the longer the duration of exposure, the greater the likelihood and severity of asbestosis.

As with the other asbestos related health effects, there is usually a time lag or latent period of several years before the development of disease. Once acquired, asbestosis tends to progress slowly, sometimes for years after asbestos exposure has ended.

CDB BUILDING NO.'S

B4405-B4406-B4407

The individual residential units were constructed in 1974 with common walls as a single building at the Howe Mental Health Facility. The exterior brick wall system was replaced in 1979 due to structural failure. The major remodeling work required replacement of interior plaster ceiling and walls.

The building is single story and has a combined square footage of 8400 square feet. There are no attics, crawlspace or basement.

The building is used to house patients for the Howe Mental Health Facility.

The exterior material is brick veneer with interior steel channels and studs supporting gypsum board and plaster. Steel columns and beams support bar joist and metal roof deck.

The roof is flat except for a sloped section near the front doors of the individual residential units. The flat roof is constructed of build-up roofing on mineral insulation. The pitch roof is terne metal. The roof is deteriorating and should be replaced.

The building is heated and cooled by a forced air system.

Under floor and overhead ducts supply air to all rooms in the residence. The HVAC systems appear in good working order. Hot water heaters in the mechanical rooms supply hot water to the building. The energy source for furnaces and hot water heaters is gas.

To the best of our knowledge there has not been any asbestos abatement in this building.

No asbestos was detected in any of the material sampled. Areas assumed to contain asbestos were not sampled and no determination of their content can be made. Any asbestos in this building would cause relatively little hazard.

SUMMARY OF FINDINGS

INSPECTION PHASE I

CDB BUILDING NO./PROJECT NO.: B4405-B4406-B4407
910-010-010

USER AGENCY: Department of Mental Health/DD

USER LOCATION: (070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477 - Cook
County

BUILDING NAME: Residence Unit 405-406-407

INSPECTORS: Vahooman Mirkhaef (I-057)
Jay Fox (I-0471)

HOMOGENEOUS AREA	DESCRIPTION	QUANTITY	NUMBER SAMPLES RECOMMENDED	REMOVAL COST ESTIMATE
SFA	Fire Proofing on Beams	1125	5	
SPA	Veneer Plaster Ceiling and Walls	33000	7	\$429,000
SPB	Plaster Seal Coat	180	3	
SPC	Veneer Plaster Walls and Ceilings (1979)	14250	7	\$185,250
SPD	Cement Plaster Walls Remodeled (1979)	750	3	
SPE	Gypsum Plaster Ceiling Remodeled (1979)	750	3	

INSPECTION PHASE I

CDB BUILDING NO./PROJECT NO.:

B4405-B4406-B4407
910-010-010

USER AGENCY:

Department of Mental Health/DD

USER LOCATION:

(070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477 - Cook
County

BUILDING NAME:

Residence Unit 405-406-407

INSPECTORS:

Vahooman Mirkhaef (I-057)
Jay Fox (I-0471)

HOMOGENEOUS AREA	DESCRIPTION	QUANTITY	NUMBER SAMPLES RECOMMENDED	REMOVAL COST ESTIMATE
SPF	Veneer Plaster Walls and Ceilings (1989)	45	3	
TJA	Mag Block Pipe Fitting	90	3	
MFA	1 X 1 Floor Tile and Mastic	7200	Assumed ACM	
MMA	Tape	225	3	
MMB	Fire Door - Wood Insulation	5	Assumed ACM	
MMC	Fire Door - Metal	9	Assumed ACM	

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.: B4405-B4406-B4407
901-010-010

USER AGENCY: Department of Mental Health

USER LOCATION: (070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477

BUILDING NAME: Residence Unit 405-406-407

INSPECTORS: Jay Fox
Vahooman Mirkhaef

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
MFA	1 X 1 Floor Tile and Mastic	X			
MMB	Fire Door - Wood Insulation	X			
MMC	Fire Door - Metal	X			
MMD	Exhaust Backdraft Damper Insulation	X			
MME	Fire Damper Insulation	X			
MMF	Built-up Roof and Flashings	X			

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.:

**B4405-B4406-B4407
901-010-010**

USER AGENCY:

Department of Mental Health

USER LOCATION:

**(070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477**

BUILDING NAME:

Residence Unit 405-406-407

INSPECTORS:

**Jay Fox
Vahooman Mirkhaef**

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
MTA	Under Floor Duct Pipe Transite	X			
MTB	Light Cover	X			
SFA	Fire Proofing on Beams			7	
SPA	Veneer Plaster Ceiling and Walls			7	
SPB	Plaster Seal Coat			5	
SPC	Veneer Plaster Walls and Ceilings (1979)			7	

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.: B4405-B4406-B4407
901-010-010

USER AGENCY: Department of Mental Health

USER LOCATION: (070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477

BUILDING NAME: Residence Unit 405-406-407

INSPECTORS: Jay Fox
Vahooman Mirkhaef

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
SPD	Cement Plaster Walls Remodeled (1979)			7	
SPE	Gypsum Plaster Ceiling Remodeled (1979)			7	
SPF	Veneer Plaster Walls and Ceilings (1989)			3	
TJA	Cementitious Pipe Fitting			3	
MMA	Tape			3	

FORM 6 - SUMMARY OF FINDINGS

Residence Units 405, 406
& 407

MANAGEMENT PLAN PHASE III
LIST IN ORDER OF RESPONSE ACTION NUMBER

BUILDING NAME
C.D.B. BUILDING NUMBER

B4405, B4406
& B4407

HOMOGENEOUS AREA	MATERIAL DESCRIPTION	ACM CONTENT (%)			NO DAMAGE	SALIENT DAMAGE	SIGNIFICANT DAMAGE	NO POTENTIAL DAMAGE	POTENTIAL DAMAGE	POTENTIAL SIGNIFICANT DAMAGE	DAMAGE ASSESSMENT	
		CHRYSOTILE	AMOSITE	OTHER							ASSUMED ACM	NUMBER
MFA	1 x 1 Floor Tile and Mastic										8	O&M
MMB	Wood Fire Door Insulation						X				8	O&M
MMC	Metal Fire Door Insulation						X				8	O&M
MMD	Insulation at Back-Draft Dampers				X						8	O&M
MME	Insulation at Fire Dampers				X						8	O&M
MMF	Built-Up Roof, Flashings & Mastic						X				8	O&M
MTA	Under Floor Duct (Transite)				X		X				8	O&M
MTB	Transite Light Covers				X		X				8	O&M

ASBESTOS MANAGEMENT PLAN REPORT

CDB PROJECT NUMBER - 910-010-010

HOWE MENTAL HEALTH CENTER
DEPARTMENT OF MENTAL HEALTH AND
DEVELOPMENTAL DISABILITIES
RESIDENCE UNITS 408, 409, & 410
C.D.B. BUILDING #B4400, B4409 & B4410
7600 WEST 183RD STREET
TINLEY PARK, IL 60477

STATE OF ILLINOIS

CAPITAL DEVELOPMENT BOARD

SPRINGFIELD, ILLINOIS

BY:
FOX & FOX ARCHITECTS & ENGINEERS
330 SOUTH WELLS STREET
CHICAGO, IL 60606
(312) 427-5592

DATE: OCT. 10, 1994

DATE SIGNED: 10/20/94

EXP. DATE: 11/30/96

IDPH LICENSE: 100-0471

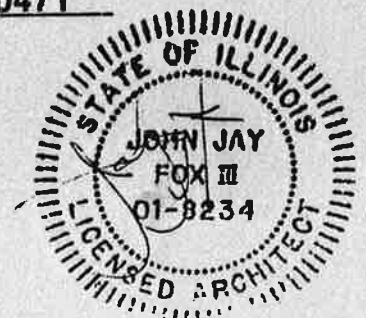
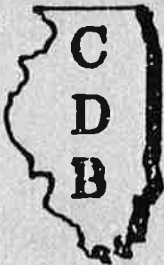


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CDB BUILDING NO.: B4408, B4409, & B4410
Residence Units 408, 409 & 410

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- III. Narrative Building Description
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- V. Site Plan
- VI. Floor Plans
- VII. MFA - 1 x 1 Floor Tile and Mastic
- VIII. MMB - Fire Door - Wood
- IX. MMC - Fire Door - Metal
- X. MMD - Exhaust Back-Draft Damper Insulation
- XI. MME - Fire Damper Insulation
- XII. MMF - Built-Up Roof and Flashings
- XIII. MTA - Under Floor Duct Pipe Transite
- XIV. MTB - Light Cover
- XV. SFA - Fire Proofing on Beams
- XVI. SPA - Veneer Plaster Ceiling and Walls
- XVII. SPB - Plaster Seal Coat
- XVIII. SPC - Veneer Plaster Walls and Ceilings (1979)
- XIX. SPD - Cement Plaster Walls Remodeled (1979)
- XX. SPE - Gypsum Plaster Ceiling Remodeled (1979)
- XXI. SPF - Veneer Plaster Walls and Ceilings (1989)
- XXII. TJA - Cementitious Pipe Fitting
- XXIII. MMA - Tape

- XXIV. Cost Summary
- XXV. Chain of Custody
- XXVI. Licenses and Accreditations
- XXVII. Operation and Maintenance Plan

CAPITAL DEVELOPMENT BOARD BUILDING INVENTORY FORM 3

C.D.B. BUILDING NUMBER: B4409 BUILDING NAME: Residence Unit 409

USING AGENCY: 321 Dept. Of Mental Health/DD LOCATION: 070 Howe Development Center

BLDG. ADDRESS: 7600 West 183rd Street CITY: Tinley Park

ZIP: 60477 COUNTY: Cook HOUSE/SENATE DISTRICT: 037/19

YEAR CONSTRUCTED: 1974 GROSS SQ. FT. 2,800 TOTAL FLOORS: 1 FLOORS BELOW GRADE: 0

USE OF BUILDING WHEN CONSTRUCTED(C): Health Care CURRENT PRIMARY USE (P): Health Care CURRENT SECONDARY USE (S): N/A

PREDOMINATE CONSTRUCTION TYPE: Brick

FOR USING AGENCY USE ONLY: _____

BUILDING NOTES: _____

(FOR C.D.B. USE ONLY)
ASBESTOS STATUS: _____

CAPITAL DEVELOPMENT BOARD BUILDING INVENTORY FORM 3

C.D.B. BUILDING NUMBER: B4410 BUILDING NAME: Residence Unit 410

USING AGENCY: 321 Dept. Of Mental Health/DD LOCATION: 070 Howe Development Center

BLDG. ADDRESS: 7600 West 183rd Street CITY: Tinley Park

ZIP: 60477 COUNTY: Cook HOUSE/SENATE DISTRICT: 037/19

YEAR CONSTRUCTED: 1974 GROSS SQ. FT. 2,800 TOTAL FLOORS: 1 FLOORS BELOW GRADE: 0

USE OF BUILDING WHEN CONSTRUCTED(C): Health Care CURRENT PRIMARY USE (P): Health Care CURRENT SECONDARY USE (S): N/A

PREDOMINATE CONSTRUCTION TYPE: Brick

FOR USING AGENCY USE ONLY:

BUILDING NOTES:

(FOR C.D.B. USE ONLY) ASBESTOS STATUS:

FORM 4

INTRODUCTION TO THE MANAGEMENT PLAN

A. Policy Statement

This Management Plan is intended to be a working document which will serve as a guide to staff, employees, occupants and visitors in minimizing the risk of exposure to asbestos fibers. The State of Illinois recognizes the serious health hazards associated with asbestos fibers. The State has conducted an inspection of this facility in order to determine whether asbestos is present, and if so, where the asbestos is located.

This Management Plan sets forth the recommended response actions for the ACM (asbestos containing material) within this facility. Further, where required, an Operations & Maintenance (O & M) Program has been established which will be implemented by facility staff.

This Plan has been reviewed by CDB, the Contracting Agency and the Using Agency and represents the policies and procedures to be implemented with respect to any ACM within this facility.

Dated: _____

Capital Development Board Representative

Dated: _____

Agency (Designated Person)

Dated: 10/26/94



Management Planner

The data linking asbestos exposure to mesothelioma is based upon many of the same epidemiological studies of workers that demonstrated an association between asbestos exposure and lung cancer. The findings are somewhat different than for lung cancer. Lower non-occupational exposures have also been associated with mesothelioma in addition to occupational exposure. Therefore, lower levels of exposure to asbestos as found in some non-occupational settings may give rise to mesothelioma. Secondly, the nature of the dose response relationship may be different from that of lung cancer. The risk continues to increase as the number of years since first exposure increases. In many cases, a latent period of more than 40 years has been described.

Gastrointestinal Cancer - Several of the epidemiological studies of workers occupationally exposed to asbestos have shown increased risks of gastrointestinal cancer including cancers of the colon, rectum, stomach and esophagus. The risk, however, does not appear to be as great as for lung cancer. To date, no association has been found between asbestos in drinking water and gastrointestinal cancer.

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Asbestosis - Asbestosis is a disabling lung disorder consisting of generalized scarring of the lungs which causes shortness of breath on exertion. Asbestosis has been described almost exclusively in workers with occupational exposure to high concentrations of asbestos-containing dusts. In asbestosis, there appears to be a very strong dose response relationship in that the greater the concentration of asbestos fibers, and the longer the duration of exposure, the greater the likelihood and severity of asbestosis.

As with the other asbestos related health effects, there is usually a time lag or latent period of several years before the development of disease. Once acquired, asbestosis tends to progress slowly, sometimes for years after asbestos exposure has ended.

CDB BUILDING NO.'S

B4408-B4409-B4410

The individual residential units were constructed in 1974 with common walls as a single building at the Howe Mental Health Facility. The exterior brick wall system was replaced in 1979 due to structural failure. The major remodeling work required replacement of interior plaster ceiling and walls.

The building is single story and has a combined square footage of 8400 square feet. There are no attics, crawlspace or basement.

The building is used to house patients for the Howe Mental Health Facility.

The exterior material is brick veneer with interior steel channels and studs supporting gypsum board and plaster. Steel columns and beams support bar joist and metal roof deck.

The roof is flat except for a sloped section near the front doors of the individual residential units. The flat roof is constructed of build-up roofing on mineral insulation. The pitch roof is terne metal. The roof is deteriorating and should be replaced.

The building is heated and cooled by a forced air system.

Under floor and overhead ducts supply air to all rooms in the residence. The HVAC systems appear in good working order. Hot water heaters in the mechanical rooms supply hot water to the building. The energy source for furnaces and hot water heaters is gas.

To the best of our knowledge there has not been any asbestos abatement in this building.

No asbestos was detected in any of the material sampled. Areas assumed to contain asbestos were not sampled and no determination of their content can be made. Any asbestos in this building would cause relatively little hazard.

SUMMARY OF FINDINGS

INSPECTION PHASE I

CDB BUILDING NO./PROJECT NO.: B4408-B4409-B4410
910-010-010

USER AGENCY: Department of Mental Health/DD

USER LOCATION: (070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477 - Cook
County

BUILDING NAME: Residence Unit 408-409-410

INSPECTORS: Vahooman Mirkhaef (I-057)
Jay Fox (I-0471)

HOMOGENEOUS AREA	DESCRIPTION	QUANTITY	NUMBER SAMPLES RECOMMENDED	REMOVAL COST ESTIMATE
SFA	Fire Proofing on Beams	1125	5	
SPA	Veneer Plaster Ceiling and Walls	33000	7	\$429,000
SPB	Plaster Seal Coat	180	3	
SPC	Veneer Plaster Walls and Ceilings (1979)	14250	7	\$185,250
SPD	Cement Plaster Walls Remodeled (1979)	750	3	
SPE	Gypsum Plaster Ceiling Remodeled (1979)	750	3	

INSPECTION PHASE I

CDB BUILDING NO./PROJECT NO.:

B4408-B4409-B4410
910-010-010

USER AGENCY:

Department of Mental Health/DD

USER LOCATION:

(070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477 - Cook
County

BUILDING NAME:

Residence Unit 408-409-410

INSPECTORS:

Vahooman Mirkhaef (I-057)
Jay Fox (I-0471)

HOMOGENEOUS AREA	DESCRIPTION	QUANTITY	NUMBER SAMPLES RECOMMENDED	REMOVAL COST ESTIMATE
SPF	Veneer Plaster Walls and Ceilings (1989)	45	3	
TJA	Mag Block Pipe Fitting	90	3	
MFA	1 X 1 Floor Tile and Mastic	7200	Assumed ACM	
MMA	Tape	225	3	
MMB	Fire Door - Wood Insulation	5	Assumed ACM	
MMC	Fire Door - Metal	9	Assumed ACM	

MMI

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.:

**B4408-B4409-B4410
901-010-010**

USER AGENCY:

Department of Mental Health

USER LOCATION:

**(070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477**

BUILDING NAME:

Residence Unit 408-409-410

INSPECTORS:

**Jay Fox
Vahooman Mirkhaef**

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
MFA	1 X 1 Floor Tile and Mastic	X			
MMB	Fire Door - Wood Insulation	X			
MMC	Fire Door - Metal	X			
MMD	Exhaust Backdraft Damper Insulation	X			
MME	Fire Damper Insulation	X			
MMF	Built-up Roof and Flashings	X			

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.:

**B4408-B4409-B4410
901-010-010**

USER AGENCY:

Department of Mental Health

USER LOCATION:

**(070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477**

BUILDING NAME:

Residence Unit 408-409-410

INSPECTORS:

**Jay Fox
Vahooman Mirkhaef**

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
SPD	Cement Plaster Walls Remodeled (1979)			7	
SPE	Gypsum Plaster Ceiling Remodeled (1979)			7	
SPF	Veneer Plaster Walls and Ceilings (1989)			3	
TJA	Cementitious Pipe Fitting			3	
MMA	Tape			3	

FORM 6 - SUMMARY OF FINDINGS

MANAGEMENT PLAN PHASE III

Residence Units 408, 409 & 410

BUILDING NAME

LIST IN ORDER OF RESPONSE ACTION NUMBER

B4408, B4409 & B4410

HOMOGENEOUS AREA	MATERIAL DESCRIPTION	ACM CONTENT (%)			DAMAGE ASSESSMENT							RESPONSE ACTION				
		CHRYSO TILE	AMOSITE	OTHER	ASSUMED ACM	NO DAMAGE	SALIENT DAMAGE	SIGNIFICANT DAMAGE	NO POTENTIAL DAMAGE	POTENTIAL SIGNIFICANT DAMAGE	POTENTIAL SIGNIFICANT DAMAGE		NUMBER	DESCRIPTION (I.E. REMOVE, REPAIR, ENCLOSE, ENCAPSULATE, OR O&M)		
MFA	1 x 1 Floor Tile and Mastic				X				X						8	O&M
MMB	Wood Fire Door Insulation				X				X						8	O&M
MMC	Metal Fire Door Insulation				X				X						8	O&M
MMD	Insulation at Back-Draft Dampers				X				X						8	O&M
MME	Insulation at Fire Dampers				X				X						8	O&M
MMF	Built-Up Roof, Flashings & Mastic				X				X						8	O&M
MTA	Under Floor Duct (Transite)				X				X						8	O&M
MTB	Transite Light Covers				X				X						8	O&M

ASBESTOS MANAGEMENT PLAN REPORT

CDB PROJECT NUMBER - 910-010-010

HOWE MENTAL HEALTH CENTER
DEPARTMENT OF MENTAL HEALTH AND
DEVELOPMENTAL DISABILITIES
RESIDENCE UNITS 505, 506 & 507
C.D.B. BUILDING #B4505, B4506 & B4507
7600 WEST 183RD STREET
TINLEY PARK, IL 60477

STATE OF ILLINOIS

CAPITAL DEVELOPMENT BOARD

SPRINGFIELD, ILLINOIS

BY:
FOX & FOX ARCHITECTS & ENGINEERS
330 SOUTH WELLS STREET
CHICAGO, IL 60606
(312) 427-5592

DATE: OCT. 10, 1994

DATE SIGNED: 10/26/94

EXP. DATE: 11/30/96

IDPH LICENSE: 100-0471

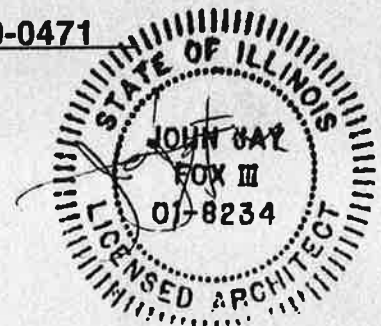


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CDB BUILDING NO.: B4505, B4506 & B4507
Residence Units 505, 506 & 507

- I. Building Inventory
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- III. Narrative Building Description
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- V. Site Plan
- VI. Floor Plans
- VII. MFA - 1 x 1 Floor Tile and Mastic
- VIII. MMB - Fire Door - Wood
- IX. MMC - Fire Door - Metal
- X. MMD - Exhaust Back-Draft Damper Insulation
- XI. MME - Fire Damper Insulation
- XII. MMF - Built-Up Roof and Flashings
- XIII. MTA - Under Floor Duct Pipe Transite
- XIV. MTB - Light Cover
- XV. SFA - Fire Proofing on Beams
- XVI. SPA - Veneer Plaster Ceiling and Walls
- XVII. SPB - Plaster Seal Coat
- XVIII. SPC - Veneer Plaster Walls and Ceilings (1979)
- XIX. SPD - Cement Plaster Walls Remodeled (1979)
- XX. SPE - Gypsum Plaster Ceiling Remodeled (1979)
- XXI. SPF - Veneer Plaster Walls and Ceilings (1989)
- XXII. TJA - Cementitious Pipe Fitting
- XXIII. MMA - Tape

- XXIV. Cost Summary
- XXV. Chain of Custody
- XXVI. Licenses and Accreditations
- XXVII. Operation and Maintenance Plan

CAPITAL DEVELOPMENT BOARD BUILDING INVENTORY FORM 3

C.D.B. BUILDING NUMBER: B4505 BUILDING NAME: Residence Unit 505

USING AGENCY: 321 Dept. Of Mental Health/DD LOCATION: 070 Howe Development Center

BLDG. ADDRESS: 7600 West 183rd Street CITY: Tinley Park

ZIP: 60477 COUNTY: Cook HOUSE/SENATE DISTRICT: 037/19

YEAR CONSTRUCTED: 1974 GROSS SQ. FT. 2,800 TOTAL FLOORS: 1 FLOORS BELOW GRADE: 0

USE OF BUILDING WHEN CONSTRUCTED(C): Health Care CURRENT PRIMARY USE (P): Health Care CURRENT SECONDARY USE (S): N/A

PREDOMINATE CONSTRUCTION TYPE: Brick

FOR USING AGENCY USE ONLY:

BUILDING NOTES:

(FOR C.D.B. USE ONLY)
ASBESTOS STATUS:

CAPITAL DEVELOPMENT BOARD BUILDING INVENTORY FORM 3

C.D.B. BUILDING NUMBER: B4506 BUILDING NAME: Residence Unit 506

USING AGENCY: 321 Dept. Of Mental Health/DD LOCATION: 070 Howe Development Center

BLDG. ADDRESS: 7600 West 183rd Street CITY: Tinley Park

ZIP: 60477 COUNTY: Cook HOUSE/SENATE DISTRICT: 037/19

YEAR CONSTRUCTED: 1974 GROSS SQ. FT. 2,800 TOTAL FLOORS: 1 FLOORS BELOW GRADE: 0

USE OF BUILDING WHEN CONSTRUCTED(C): Health Care CURRENT PRIMARY USE (P): Health Care CURRENT SECONDARY USE (S): N/A

PREDOMINATE CONSTRUCTION TYPE: Brick

FOR USING AGENCY USE ONLY: _____

BUILDING NOTES: _____

(FOR C.D.B. USE ONLY) ASBESTOS STATUS: _____

CAPITAL DEVELOPMENT BOARD BUILDING INVENTORY FORM 3

C.D.B. BUILDING NUMBER: B4507 BUILDING NAME: Residence Unit 507

USING AGENCY: 321 Dept. Of Mental Health/DD LOCATION: 070 Howe Development Center

BLDG. ADDRESS: 7600 West 183rd Street CITY: Tinley Park

ZIP: 60477 COUNTY: Cook HOUSE/SENATE DISTRICT: 037/19

YEAR CONSTRUCTED: 1974 GROSS SQ. FT.: 2,800 TOTAL FLOORS: 1 FLOORS BELOW GRADE: 0

USE OF BUILDING WHEN CONSTRUCTED(C): Health Care CURRENT PRIMARY USE (P): Health Care CURRENT SECONDARY USE (S): N/A

PREDOMINATE CONSTRUCTION TYPE: Brick

FOR USING AGENCY USE ONLY: _____

BUILDING NOTES: _____

(FOR C.D.B. USE ONLY) ASBESTOS STATUS: _____

FORM 4

INTRODUCTION TO THE MANAGEMENT PLAN

A Policy Statement

This Management Plan is intended to be a working document which will serve as a guide to staff, employees, occupants and visitors in minimizing the risk of exposure to asbestos fibers. The State of Illinois recognizes the serious health hazards associated with asbestos fibers. The State has conducted an inspection of this facility in order to determine whether asbestos is present, and if so, where the asbestos is located.

This Management Plan sets forth the recommended response actions for the ACM (asbestos containing material) within this facility. Further, where required, an Operations & Maintenance (O & M) Program has been established which will be implemented by facility staff.

This Plan has been reviewed by CDB, the Contracting Agency and the Using Agency and represents the policies and procedures to be implemented with respect to any ACM within this facility.

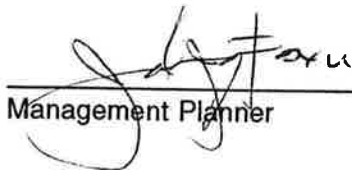
Dated: _____

Capital Development Board Representative

Dated: _____

Agency (Designated Person)

Dated: 10/26/94



Management Planner

The data linking asbestos exposure to mesothelioma is based upon many of the same epidemiological studies of workers that demonstrated an association between asbestos exposure and lung cancer. The findings are somewhat different than for lung cancer. Lower non-occupational exposures have also been associated with mesothelioma in addition to occupational exposure. Therefore, lower levels of exposure to asbestos as found in some non-occupational settings may give rise to mesothelioma. Secondly, the nature of the dose response relationship may be different from that of lung cancer. The risk continues to increase as the number of years since first exposure increases. In many cases, a latent period of more than 40 years has been described.

Gastrointestinal Cancer - Several of the epidemiological studies of workers occupationally exposed to asbestos have shown increased risks of gastrointestinal cancer including cancers of the colon, rectum, stomach and esophagus. The risk, however, does not appear to be as great as for lung cancer. To date, no association has been found between asbestos in drinking water and gastrointestinal cancer.

Asbestos Related Pleural Disease - This category of health effects includes fibrous and sometimes calcified plaques as well as diffuse thickening of the pleura and the pleural effusion. These are non-cancerous changes of the membranes surrounding the lungs and commonly occur many years after asbestos exposure. The presence of plaques suggests prior asbestos exposure but usually does not cause any symptoms or respiratory impairment.

Asbestosis - Asbestosis is a disabling lung disorder consisting of generalized scarring of the lungs which causes shortness of breath on exertion. Asbestosis has been described almost exclusively in workers with occupational exposure to high concentrations of asbestos-containing dusts. In asbestosis, there appears to be a very strong dose response relationship in that the greater the concentration of asbestos fibers, and the longer the duration of exposure, the greater the likelihood and severity of asbestosis.

As with the other asbestos related health effects, there is usually a time lag or latent period of several years before the development of disease. Once acquired, asbestosis tends to progress slowly, sometimes for years after asbestos exposure has ended.

CDB BUILDING NO.'S

B4505-B4506-B4507

The individual residential units were constructed in 1974 with common walls as a single building at the Howe Mental Health Facility. The exterior brick wall system was replaced in 1979 due to structural failure. The major remodeling work required replacement of interior plaster ceiling and walls.

The building is single story and has a combined square footage of 8400 square feet. There are no attics, crawlspace or basement.

The building is used to house patients for the Howe Mental Health Facility.

The exterior material is brick veneer with interior steel channels and studs supporting gypsum board and plaster. Steel columns and beams support bar joist and metal roof deck.

The roof is flat except for a sloped section near the front doors of the individual residential units. The flat roof is constructed of build-up roofing on mineral insulation. The pitch roof is terne metal. The roof is deteriorating and should be replaced.

The building is heated and cooled by a forced air system.

Under floor and overhead ducts supply air to all rooms in the residence. The HVAC systems appear in good working order. Hot water heaters in the mechanical rooms supply hot water to the building. The energy source for furnaces and hot water heaters is gas.

To the best of our knowledge there has not been any asbestos abatement in this building.

No asbestos was detected in any of the material sampled. Areas assumed to contain asbestos were not sampled and no determination of their content can be made. Any asbestos in this building would cause relatively little hazard.

SUMMARY OF FINDINGS

INSPECTION PHASE I

CDB BUILDING NO./PROJECT NO.: B4505-B4506-B4507
 910-010-010
USER AGENCY: Department of Mental Health/DD
USER LOCATION: (070) Howe Mental Health Center
 7600 W. 183rd Street
 Tinley Park, Illinois 60477 - Cook
 County
BUILDING NAME: Residence Unit 505-506-507
INSPECTORS: Vahooman Mirkhaef (I-057)
 Jay Fox (I-0471)

HOMOGENEOUS AREA	DESCRIPTION	QUANTITY	NUMBER SAMPLES RECOMMENDED	REMOVAL COST ESTIMATE
SFA	Fire Proofing on Beams	1125	5	
SPA	Veneer Plaster Ceiling and Walls	33000	7	\$429,000
SPB	Plaster Seal Coat	180	3	
SPC	Veneer Plaster Walls and Ceilings (1979)	14250	7	\$185,250
SPD	Cement Plaster Walls Remodeled (1979)	750	3	
SPE	Gypsum Plaster Ceiling Remodeled (1979)	750	3	

INSPECTION PHASE I

CDB BUILDING NO./PROJECT NO.:

**B4505-B4506-B4507
910-010-010**

USER AGENCY:

Department of Mental Health/DD

USER LOCATION:

**(070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477 - Cook
County**

BUILDING NAME:

Residence Unit 505-506-507

INSPECTORS:

**Vahooman Mirkhaef (I-057)
Jay Fox (I-0471)**

HOMOGENEOUS AREA	DESCRIPTION	QUANTITY	NUMBER SAMPLES RECOMMENDED	REMOVAL COST ESTIMATE
SPF	Veneer Plaster Walls and Ceilings (1989)	45	3	
TJA	Mag Block Pipe Fitting	90	3	
MFA	1 X 1 Floor Tile and Mastic	7200	Assumed ACM	
MMA	Tape	225	3	
MMB	Fire Door - Wood Insulation	5	Assumed ACM	
MMC	Fire Door - Metal	9	Assumed ACM	

INSPECTION PHASE I

CDB BUILDING NO./PROJECT NO.:

**B4505-B4506-B4507
910-010-010**

USER AGENCY:

Department of Mental Health/DD

USER LOCATION:

**(070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477 - Cook
County**

BUILDING NAME:

Residence Unit 505-506-507

INSPECTORS:

**Vahooman Mirkhaef (I-057)
Jay Fox (I-0471)**

HOMOGENEOUS AREA	DESCRIPTION	QUANTITY	NUMBER SAMPLES RECOMMENDED	REMOVAL COST ESTIMATE
MMD	Exhaust Backdraft Damper Insulation	45	Assumed ACM	
MME	Fire Damper Insulation	45	Assumed ACM	
MMF	Built-up Roof and Flashings	8016	Assumed ACM	\$ 36,072
MTA	Under Floor Duct Pipe Transite	900	Assumed ACM	
MTB	Light Cover	12	Assumed ACM	

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.: B4505-B4506-B4507
901-010-010

USER AGENCY: Department of Mental Health

USER LOCATION: (070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477

BUILDING NAME: Residence Unit 505-506-507

INSPECTORS: Jay Fox
Vahooman Mirkhaef

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
MFA	1 X 1 Floor Tile and Mastic	X			
MMB	Fire Door - Wood Insulation	X			
MMC	Fire Door - Metal	X			
MMD	Exhaust Backdraft Damper Insulation	X			
MME	Fire Damper Insulation	X			
MMF	Built-up Roof and Flashings	X			

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.:

**B4505-B4506-B4507
901-010-010**

USER AGENCY:

Department of Mental Health

USER LOCATION:

**(070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477**

BUILDING NAME:

Residence Unit 505-506-507

INSPECTORS:

**Jay Fox
Vahooman Mirkhaef**

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
MTA	Under Floor Duct Pipe Transite	X			
MTB	Light Cover	X			
SFA	Fire Proofing on Beams			7	
SPA	Veneer Plaster Ceiling and Walls			7	
SPB	Plaster Seal Coat			5	
SPC	Veneer Plaster Walls and Ceilings (1979)			7	

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.:

**B4505-B4506-B4507
901-010-010**

USER AGENCY:

Department of Mental Health

USER LOCATION:

**(070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477**

BUILDING NAME:

Residence Unit 505-506-507

INSPECTORS:

**Jay Fox
Vahooman Mirkhaef**

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
SPD	Cement Plaster Walls Remodeled (1979)			7	
SPE	Gypsum Plaster Ceiling Remodeled (1979)			7	
SPF	Veneer Plaster Walls and Ceilings (1989)			3	
TJA	Cementitious Pipe Fitting			3	
MMA	Tape			3	

FORM 6 - SUMMARY OF FINDINGS

BUILDING NAME

Residence Units 505, 506
& 507

B4505, B4506

MANAGEMENT PLAN PHASE III
LIST IN ORDER OF RESPONSE ACTION NUMBER

C.D.B. BUILDING NUMBER & R4507

HOMOGENEOUS AREA	MATERIAL DESCRIPTION	ACM CONTENT (%)			DAMAGE ASSESSMENT							RESPONSE ACTION			
		CHRYSOTILE	AMOSITE	OTHER	ASSUMED ACM	NO DAMAGE	SALIENT DAMAGE	SIGNIFICANT DAMAGE	NO POTENTIAL DAMAGE	POTENTIAL DAMAGE	POTENTIAL SIGNIFICANT DAMAGE		NUMBER	DESCRIPTION (I.E. REMOVE, REPAIR, ENCLOSE, ENCAPSULATE, OR O&M)	
MFA	1 x 1 Floor Tile and Mastic				X									8	O&M
MMB	Wood Fire Door Insulation				X									8	O&M
MMC	Metal Fire Door Insulation				X									8	O&M
MMD	Insulation at Back-Draft Dampers				X									8	O&M
MME	Insulation at Fire Dampers				X									8	O&M
MMF	Built-Up Roof, Flashings & Mastic				X									8	O&M
MTA	Under Floor Duct (Transite)				X									8	O&M
MTB	Transite Light Covers				X									8	O&M

ASBESTOS MANAGEMENT PLAN REPORT

CDB PROJECT NUMBER - 910-010-010

HOWE MENTAL HEALTH CENTER
DEPARTMENT OF MENTAL HEALTH AND
DEVELOPMENTAL DISABILITIES
RESIDENCE UNITS 508, 509 & 510
C.D.B. BUILDING #B4508, B4509 & B4510
7600 WEST 183RD STREET
TINLEY PARK, IL 60477

STATE OF ILLINOIS

CAPITAL DEVELOPMENT BOARD

SPRINGFIELD, ILLINOIS

BY:
FOX & FOX ARCHITECTS & ENGINEERS
330 SOUTH WELLS STREET
CHICAGO, IL 60606
(312) 427-5592

DATE: OCT. 10, 1994

DATE SIGNED: 10/26/94

EXP. DATE: 11/30/96

IDPH LICENSE: 100-0471

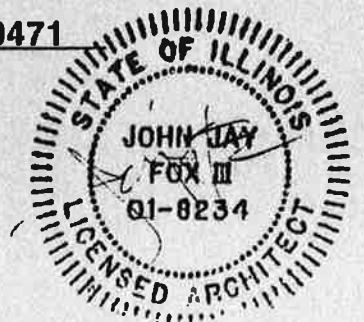


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CDB BUILDING NO.: B4508, B4509 & B4510
Residence Units 508, 509 & 510

- I. Building Inventory
- II. Introduction
- III. Narrative Building Description
- IV. Summary of Findings
- V. Site Plan
- VI. Floor Plans
- VII. MFA - 1 x 1 Floor Tile and Mastic
- VIII. MMB - Fire Door - Wood
- IX. MMC - Fire Door - Metal
- X. MMD - Exhaust Back-Draft Damper Insulation
- XI. MME - Fire Damper Insulation
- XII. MMF - Built-Up Roof and Flashings
- XIII. MTA - Under Floor Duct Pipe Transite
- XIV. MTB - Light Cover
- XV. SFA - Fire Proofing on Beams
- XVI. SPA - Veneer Plaster Ceiling and Walls
- XVII. SPB - Plaster Seal Coat
- XVIII. SPC - Veneer Plaster Walls and Ceilings (1979)
- XIX. SPD - Cement Plaster Walls Remodeled (1979)
- XX. SPE - Gypsum Plaster Ceiling Remodeled (1979)
- XXI. SPF - Veneer Plaster Walls and Ceilings (1989)
- XXII. TJA - Cementitious Pipe Fitting
- XXIII. MMA - Tape

- XXIV. Cost Summary
- XXV. Chain of Custody
- XXVI. Licenses and Accreditations
- XXVII. Operation and Maintenance Plan

CAPITAL DEVELOPMENT BOARD BUILDING INVENTORY FORM 3

C.D.B. BUILDING NUMBER: B4508 BUILDING NAME: Residence Unit 508

USING AGENCY: 321 Dept. Of Mental Health/DD LOCATION: 070 Howe Development Center

BLDG. ADDRESS: 7600 West 183rd Street CITY: Tinley Park

ZIP: 60477 COUNTY: Cook HOUSE/SENATE DISTRICT: 037/19

YEAR CONSTRUCTED: 1974 GROSS SQ. FT. 2,800 TOTAL FLOORS: 1 FLOORS BELOW GRADE: 0

USE OF BUILDING WHEN CONSTRUCTED(C): Health Care CURRENT PRIMARY USE (P): Health Care CURRENT SECONDARY USE (S): N/A

PREDOMINATE CONSTRUCTION TYPE: Brick

FOR USING AGENCY USE ONLY: _____

BUILDING NOTES: _____

(FOR C.D.B. USE ONLY) ASBESTOS STATUS: _____

CAPITAL DEVELOPMENT BOARD BUILDING INVENTORY FORM 3

C.D.B. BUILDING NUMBER: B4509 BUILDING NAME: Residence Unit 509

USING AGENCY: 321 Dept. Of Mental Health/DD LOCATION: 070 Howe Development Center

BLDG. ADDRESS: 7600 West 183rd Street CITY: Tinley Park

ZIP: 60477 COUNTY: Cook HOUSE/SENATE DISTRICT: 037/19

YEAR CONSTRUCTED: 1974 GROSS SQ. FT. 2,800 TOTAL FLOORS: 1 FLOORS BELOW GRADE: 0

USE OF BUILDING WHEN CONSTRUCTED(C): Health Care CURRENT PRIMARY USE (P): Health Care CURRENT SECONDARY USE (S): N/A

PREDOMINATE CONSTRUCTION TYPE: Brick

FOR USING AGENCY USE ONLY: _____

BUILDING NOTES: _____

(FOR C.D.B. USE ONLY) ASBESTOS STATUS: _____

CAPITAL DEVELOPMENT BOARD BUILDING INVENTORY FORM 3

C.D.B. BUILDING NUMBER: B4510 BUILDING NAME: Residence Unit 510

USING AGENCY: 321 Dept. Of Mental Health/DD LOCATION: 070 Howe Development Center

BLDG. ADDRESS: 7600 West 183rd Street CITY: Tinley Park

ZIP: 60477 COUNTY: Cook HOUSE/SENATE DISTRICT: 037/19

YEAR CONSTRUCTED: 1974 GROSS SQ. FT.: 2,800 TOTAL FLOORS: 1 FLOORS BELOW GRADE: 0

USE OF BUILDING WHEN CONSTRUCTED(C): Health Care CURRENT PRIMARY USE (P): Health Care CURRENT SECONDARY USE (S): N/A

PREDOMINATE CONSTRUCTION TYPE: Brick

FOR USING AGENCY USE ONLY: _____

BUILDING NOTES: _____

(FOR C.D.B. USE ONLY)
ASBESTOS STATUS: _____

FORM 4

INTRODUCTION TO THE MANAGEMENT PLAN

A. Policy Statement

This Management Plan is intended to be a working document which will serve as a guide to staff, employees, occupants and visitors in minimizing the risk of exposure to asbestos fibers. The State of Illinois recognizes the serious health hazards associated with asbestos fibers. The State has conducted an inspection of this facility in order to determine whether asbestos is present, and if so, where the asbestos is located.

This Management Plan sets forth the recommended response actions for the ACM (asbestos containing material) within this facility. Further, where required, an Operations & Maintenance (O & M) Program has been established which will be implemented by facility staff.

This Plan has been reviewed by CDB, the Contracting Agency and the Using Agency and represents the policies and procedures to be implemented with respect to any ACM within this facility.


Dated: _____

Capital Development Board Representative

Dated: _____

Agency (Designated Person)

Dated: 10/26/94



Management Planner

The data linking asbestos exposure to mesothelioma is based upon many of the same epidemiological studies of workers that demonstrated an association between asbestos exposure and lung cancer. The findings are somewhat different than for lung cancer. Lower non-occupational exposures have also been associated with mesothelioma in addition to occupational exposure. Therefore, lower levels of exposure to asbestos as found in some non-occupational settings may give rise to mesothelioma. Secondly, the nature of the dose response relationship may be different from that of lung cancer. The risk continues to increase as the number of years since first exposure increases. In many cases, a latent period of more than 40 years has been described.

Gastrointestinal Cancer - Several of the epidemiological studies of workers occupationally exposed to asbestos have shown increased risks of gastrointestinal cancer including cancers of the colon, rectum, stomach and esophagus. The risk, however, does not appear to be as great as for lung cancer. To date, no association has been found between asbestos in drinking water and gastrointestinal cancer.

Asbestos Related Pleural Disease - This category of health effects includes fibrous and sometimes calcified plaques as well as diffuse thickening of the pleura and the pleural effusion. These are non-cancerous changes of the membranes surrounding the lungs and commonly occur many years after asbestos exposure. The presence of plaques suggests prior asbestos exposure but usually does not cause any symptoms or respiratory impairment.

Asbestosis - Asbestosis is a disabling lung disorder consisting of generalized scarring of the lungs which causes shortness of breath on exertion. Asbestosis has been described almost exclusively in workers with occupational exposure to high concentrations of asbestos-containing dusts. In asbestosis, there appears to be a very strong dose response relationship in that the greater the concentration of asbestos fibers, and the longer the duration of exposure, the greater the likelihood and severity of asbestosis.

As with the other asbestos related health effects, there is usually a time lag or latent period of several years before the development of disease. Once acquired, asbestosis tends to progress slowly, sometimes for years after asbestos exposure has ended.

CDB BUILDING NO.'S

B4508-B4509-B4510

The individual residential units were constructed in 1974 with common walls as a single building at the Howe Mental Health Facility. The exterior brick wall system was replaced in 1979 due to structural failure. The major remodeling work required replacement of interior plaster ceiling and walls.

The building is single story and has a combined square footage of 8400 square feet. There are no attics, crawlspace or basement.

The building is used to house patients for the Howe Mental Health Facility.

The exterior material is brick veneer with interior steel channels and studs supporting gypsum board and plaster. Steel columns and beams support bar joist and metal roof deck.

The roof is flat except for a sloped section near the front doors of the individual residential units. The flat roof is constructed of build-up roofing on mineral insulation. The pitch roof is terne metal. The roof is deteriorating and should be replaced.

The building is heated and cooled by a forced air system.

Under floor and overhead ducts supply air to all rooms in the residence. The HVAC systems appear in good working order. Hot water heaters in the mechanical rooms supply hot water to the building. The energy source for furnaces and hot water heaters is gas.

To the best of our knowledge there has not been any asbestos abatement in this building.

No asbestos was detected in any of the material sampled. Areas assumed to contain asbestos were not sampled and no determination of their content can be made. Any asbestos in this building would cause relatively little hazard.

SUMMARY OF FINDINGS

INSPECTION PHASE I

CDB BUILDING NO./PROJECT NO.: B4508-B4509-B4510
910-010-010

USER AGENCY: Department of Mental Health/DD

USER LOCATION: (070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477 - Cook
County

BUILDING NAME: Residence Unit 508-509-510

INSPECTORS: Vahooman Mirkhaef (I-057)
Jay Fox (I-0471)

HOMOGENEOUS AREA	DESCRIPTION	QUANTITY	NUMBER SAMPLES RECOMMENDED	REMOVAL COST ESTIMATE
SFA	Fire Proofing on Beams	1125	5	
SPA	Veneer Plaster Ceiling and Walls	33000	7	\$429,000
SPB	Plaster Seal Coat	180	3	
SPC	Veneer Plaster Walls and Ceilings (1979)	14250	7	\$185,250
SPD	Cement Plaster Walls Remodeled (1979)	750	3	
SPE	Gypsum Plaster Ceiling Remodeled (1979)	750	3	

INSPECTION PHASE I

CDB BUILDING NO./PROJECT NO.:

**B4508-B4509-B4510
910-010-010**

USER AGENCY:

Department of Mental Health/DD

USER LOCATION:

**(070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477 - Cook
County**

BUILDING NAME:

Residence Unit 508-509-510

INSPECTORS:

**Vahooman Mirkhaef (I-057)
Jay Fox (I-0471)**

HOMOGENEOUS AREA	DESCRIPTION	QUANTITY	NUMBER SAMPLES RECOMMENDED	REMOVAL COST ESTIMATE
SPF	Veneer Plaster Walls and Ceilings (1989)	45	3	
TJA	Mag Block Pipe Fitting	90	3	
MFA	1 X 1 Floor Tile and Mastic	7200	Assumed ACM	
MMA	Tape	225	3	
MMB	Fire Door - Wood Insulation	5	Assumed ACM	
MMC	Fire Door - Metal	9	Assumed ACM	

INSPECTION PHASE I

CDB BUILDING NO./PROJECT NO.: B4508-B4509-B4510
910-010-010

USER AGENCY: Department of Mental Health/DD

USER LOCATION: (070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477 - Cook
County

BUILDING NAME: Residence Unit 508-509-510

INSPECTORS: Vahooman Mirkhaef (I-057)
Jay Fox (I-0471)

HOMOGENEOUS AREA	DESCRIPTION	QUANTITY	NUMBER SAMPLES RECOMMENDED	REMOVAL COST ESTIMATE
MMD	Exhaust Backdraft Damper Insulation	45	Assumed ACM	
MME	Fire Damper Insulation	45	Assumed ACM	
MMF	Built-up Roof and Flashings	8016	Assumed ACM	\$ 36,072
MTA	Under Floor Duct Pipe Transite	900	Assumed ACM	
MTB	Light Cover	12	Assumed ACM	

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.: B4508-B4509-B4510
 901-010-010

USER AGENCY: Department of Mental Health

USER LOCATION: (070) Howe Mental Health Center
 7600 W. 183rd Street
 Tinley Park, Illinois 60477

BUILDING NAME: Residence Unit 508-509-510

INSPECTORS: Jay Fox
 Vahooman Mirkhaef

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
MFA	1 X 1 Floor Tile and Mastic	X			
MMB	Fire Door - Wood Insulation	X			
MMC	Fire Door - Metal	X			
MMD	Exhaust Backdraft Damper Insulation	X			
MME	Fire Damper Insulation	X			
MMF	Built-up Roof and Flashings	X			

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.: B4508-B4509-B4510
901-010-010

USER AGENCY: Department of Mental Health

USER LOCATION: (070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477

BUILDING NAME: Residence Unit 508-509-510

INSPECTORS: Jay Fox
Vahooman Mirkhaef

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
MTA	Under Floor Duct Pipe Transite	X			
MTB	Light Cover	X			
SFA	Fire Proofing on Beams			7	
SPA	Veneer Plaster Ceiling and Walls			7	
SPB	Plaster Seal Coat			5	
SPC	Veneer Plaster Walls and Ceilings (1979)			7	

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.:

**B4508-B4509-B4510
901-010-010**

USER AGENCY:

Department of Mental Health

USER LOCATION:

**(070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477**

BUILDING NAME:

Residence Unit 508-509-510

INSPECTORS:

**Jay Fox
Vahooman Mirkhaef**

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
SPD	Cement Plaster Walls Remodeled (1979)			7	
SPE	Gypsum Plaster Ceiling Remodeled (1979)			7	
SPF	Veneer Plaster Walls and Ceilings (1989)			3	
TJA	Cementitious Pipe Fitting			3	
MMA	Tape			3	

FORM 6 - SUMMARY OF FINDINGS

MANAGEMENT PLAN PHASE III
LIST IN ORDER OF RESPONSE ACTION NUMBER

Residence Units 508, 509
& 510

BUILDING NAME

C.D.B. BUILDING NUMBER & B4510

HOMOGENEOUS AREA	MATERIAL DESCRIPTION	ACM CONTENT (%)			DAMAGE ASSESSMENT							RESPONSE ACTION			
		CHRYSOLE	AMOSITE	OTHER	ASSUMED ACM	NO DAMAGE	SALIENT DAMAGE	SIGNIFICANT DAMAGE	NO POTENTIAL DAMAGE	POTENTIAL DAMAGE	POTENTIAL SIGNIFICANT DAMAGE		NUMBER	DESCRIPTION (I.E. REMOVE, REPAIR, ENCLOSE, ENCAPSULATE, OR O&M)	
MFA	1 x 1 Floor Tile and Mastic				X									8	O&M
MMB	Wood Fire Door Insulation				X									8	O&M
MMC	Metal Fire Door Insulation				X									8	O&M
MMD	Insulation at Back-Draft Dampers				X									8	O&M
MME	Insulation at Fire Dampers				X									8	O&M
MMF	Built-Up Roof, Flashings & Mastic				X									8	O&M
MTA	Under Floor Duct (Transite)				X									8	O&M
MTB	Transite Light Covers				X									8	O&M

ASBESTOS MANAGEMENT PLAN REPORT

CDB PROJECT NUMBER - 910-010-010

HOWE MENTAL HEALTH CENTER
DEPARTMENT OF MENTAL HEALTH AND
DEVELOPMENTAL DISABILITIES
RESIDENCE UNITS 205, 206 & 207
C.D.B. BUILDING #B4205, B4206 & B4207
7600 WEST 183RD STREET
TINLEY PARK, IL 60477

STATE OF ILLINOIS

CAPITAL DEVELOPMENT BOARD

SPRINGFIELD, ILLINOIS

BY:
FOX & FOX ARCHITECTS & ENGINEERS
330 SOUTH WELLS STREET
CHICAGO, IL 60606
(312) 427-5592

DATE: OCT. 10, 1994

DATE SIGNED: 10/26/94

EXP. DATE: 11/30/96

IDPH LICENSE: 100-0471

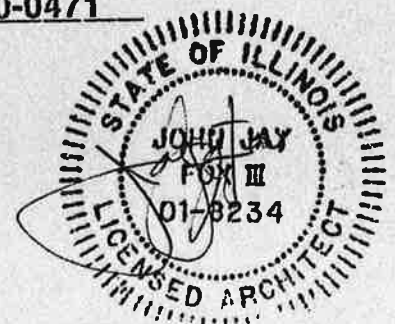
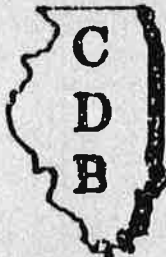


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CDB BUILDING NO.: B4205, B4206 & B4207
Residence Units 205, 206 & 207

- I. Building Inventory
- II. Introduction
- III. Narrative Building Description
- IV. Summary of Findings
- V. Site Plan
- VI. Floor Plans
- VII. MFA - 1 x 1 Floor Tile and Mastic
- VIII. MMB - Fire Door - Wood Insulation
- IX. MMC - Fire Door - Metal
- X. MMD - Exhaust Back-Draft Damper Insulation
- XI. MME - Fire Damper Insulation
- XII. MMF - Built-Up Roof and Flashings
- XIII. MTA - Under Floor Duct Pipe Transite
- XIV. MTB - Light Cover
- XV. SFA - Fire Proofing on Beams
- XVI. SPA - Veneer Plaster Ceiling and Walls
- XVII. SPB - Plaster Seal Coat
- XVIII. SPC - Veneer Plaster Walls and Ceilings (1981)
- XIX. SPD - Cement Plaster Walls Remodeled (1981)
- XX. SPE - Gypsum Plaster Ceiling Remodeled (1981)
- XXI. SPF - Veneer Plaster Walls and Ceilings (1989)
- XXII. TJA - Cementitious Pipe Fitting
- XXIII. MMA - Tape

- XXIV. Cost Summary
- XXV. Chain of Custody
- XXVI. Licenses and Accreditations
- XXVII. Operation and Maintenance Plan

CAPITAL DEVELOPMENT BOARD BUILDING INVENTORY FORM 3

C.D.B. BUILDING NUMBER: B4205 BUILDING NAME: Residence Unit 205

USING AGENCY: 321 Dept. Of Mental Health/DD LOCATION: 070 Howe Development Center

BLDG. ADDRESS: 7600 West 183rd Street CITY: Tinley Park

ZIP: 60477 COUNTY: Cook HOUSE/SENATE DISTRICT: 037/19

YEAR CONSTRUCTED: 1974 GROSS SQ. FT. 2,800 TOTAL FLOORS: 1 FLOORS BELOW GRADE: 0

USE OF BUILDING WHEN CONSTRUCTED(C): Health Care CURRENT PRIMARY USE (P): Health Care CURRENT SECONDARY USE (S): N/A

PREDOMINATE CONSTRUCTION TYPE: Brick

FOR USING AGENCY USE ONLY: _____

BUILDING NOTES: _____

(FOR C.D.B. USE ONLY) ASBESTOS STATUS: _____

UNIVERSITY OF ILLINOIS - SPRINGFIELD

C.D.B. BUILDING NUMBER: B4206 BUILDING NAME: Residence Unit 206

USING AGENCY: 321 Dept. Of Mental Health/DD LOCATION: 070 Howe Development Center

BLDG. ADDRESS: 7600 West 183rd Street CITY: Tinley Park

ZIP: 60477 COUNTY: Cook HOUSE/SENATE DISTRICT: 037/19

YEAR CONSTRUCTED: 1974 GROSS SQ. FT.: 2,800 TOTAL FLOORS: 1 FLOORS BELOW GRADE: 0

USE OF BUILDING WHEN CONSTRUCTED(C): Health Care CURRENT PRIMARY USE (P): Health Care CURRENT SECONDARY USE (S): N/A

PREDOMINATE CONSTRUCTION TYPE: Brick

FOR USING AGENCY USE ONLY:

BUILDING NOTES:

(FOR C.D.B. USE ONLY) ASBESTOS STATUS:

F

CAPITAL DEVELOPMENT BOARD BUILDING INVENTORY FORM 3

C.D.B. BUILDING NUMBER: B4207 BUILDING NAME: Residence Unit 207

USING AGENCY: 321 Dept. Of Mental Health/DD LOCATION: 070 Howe Development Center

BLDG. ADDRESS: 7600 West 183rd Street CITY: Tinley Park

ZIP: 60477 COUNTY: Cook HOUSE/SENATE DISTRICT: 037/19

YEAR CONSTRUCTED: 1974 GROSS SQ. FT. 2,800 TOTAL FLOORS: 1 FLOORS BELOW GRADE: 0

USE OF BUILDING WHEN CONSTRUCTED(C): Health Care CURRENT PRIMARY USE (P): Health Care CURRENT SECONDARY USE (S): N/A

PREDOMINATE CONSTRUCTION TYPE: Brick

FOR USING AGENCY USE ONLY: _____

BUILDING NOTES: _____

(FOR C.D.B. USE ONLY)
ASBESTOS STATUS: _____

FORM 4

INTRODUCTION TO THE MANAGEMENT PLAN

A. Policy Statement

This Management Plan is intended to be a working document which will serve as a guide to staff, employees, occupants and visitors in minimizing the risk of exposure to asbestos fibers. The State of Illinois recognizes the serious health hazards associated with asbestos fibers. The State has conducted an inspection of this facility in order to determine whether asbestos is present, and if so, where the asbestos is located.

This Management Plan sets forth the recommended response actions for the ACM (asbestos containing material) within this facility. Further, where required, an Operations & Maintenance (O & M) Program has been established which will be implemented by facility staff.

This Plan has been reviewed by CDB, the Contracting Agency and the Using Agency and represents the policies and procedures to be implemented with respect to any ACM within this facility.

Dated: _____

Capital Development Board Representative

Dated: _____

Agency (Designated Person)

Dated: 10/26/94



Management Planner

The data linking asbestos exposure to mesothelioma is based upon many of the same epidemiological studies of workers that demonstrated an association between asbestos exposure and lung cancer. The findings are somewhat different than for lung cancer. Lower non-occupational exposures have also been associated with mesothelioma in addition to occupational exposure. Therefore, lower levels of exposure to asbestos as found in some non-occupational settings may give rise to mesothelioma. Secondly, the nature of the dose response relationship may be different from that of lung cancer. The risk continues to increase as the number of years since first exposure increases. In many cases, a latent period of more than 40 years has been described.

Gastrointestinal Cancer - Several of the epidemiological studies of workers occupationally exposed to asbestos have shown increased risks of gastrointestinal cancer including cancers of the colon, rectum, stomach and esophagus. The risk, however, does not appear to be as great as for lung cancer. To date, no association has been found between asbestos in drinking water and gastrointestinal cancer.

Asbestos Related Pleural Disease - This category of health effects includes fibrous and sometimes calcified plaques as well as diffuse thickening of the pleura and the pleural effusion. These are non-cancerous changes of the membranes surrounding the lungs and commonly occur many years after asbestos exposure. The presence of plaques suggests prior asbestos exposure but usually does not cause any symptoms or respiratory impairment.

Asbestosis - Asbestosis is a disabling lung disorder consisting of generalized scarring of the lungs which causes shortness of breath on exertion. Asbestosis has been described almost exclusively in workers with occupational exposure to high concentrations of asbestos-containing dusts. In asbestosis, there appears to be a very strong dose response relationship in that the greater the concentration of asbestos fibers, and the longer the duration of exposure, the greater the likelihood and severity of asbestosis.

As with the other asbestos related health effects, there is usually a time lag or latent period of several years before the development of disease. Once acquired, asbestosis tends to progress slowly, sometimes for years after asbestos exposure has ended.

CDB BUILDING NO.'S

B4205-B4206-B4207

The individual residential units were constructed in 1974 with common walls as a single building at the Howe Mental Health Facility. The exterior brick wall system was replaced in 1981 due to structural failure. The major remodeling work required replacement of interior plaster ceiling and walls.

The building is single story and has a combined square footage of 8400 square feet. There are no attics, crawlspace or basement.

The building is used to house patients for the Howe Mental Health Facility.

The exterior material is brick veneer with interior steel channels and studs supporting gypsum board and plaster. Steel columns and beams support bar joist and metal roof deck.

The roof is flat except for a sloped section near the front doors of the individual residential units. The flat roof is constructed of build-up roofing on mineral insulation. The pitch roof is terne metal. The roof is deteriorating and should be replaced.

The building is heated and cooled by a forced air system.

Under floor and overhead ducts supply air to all rooms in the residence. The HYAC systems appear in good working order. Hot water heaters in the mechanical rooms supply hot water to the building. The energy source for furnaces and hot water heaters is gas.

To the best of our knowledge there has not been any asbestos abatement in this building.

No asbestos was detected in any of the material sampled. Areas assumed to contain asbestos were not sampled and no determination of their content can be made. Any asbestos in this building would cause relatively little hazard.

SUMMARY OF FINDINGS

INSPECTION PHASE I

CDB BUILDING NO./PROJECT NO.:

**B4205-B4206-B4207
910-010-010**

USER AGENCY:

Department of Mental Health/DD

USER LOCATION:

**(070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477 - Cook
County**

BUILDING NAME:

Residence Unit 205-206-207

INSPECTORS:

**Vahooman Mirkhaef (I-057)
Jay Fox (I-0471)**

HOMOGENEOUS AREA	DESCRIPTION	QUANTITY	NUMBER SAMPLES RECOMMENDED	REMOVAL COST ESTIMATE
SFA	Fire Proofing on Beams	1125	5	
SPA	Veneer Plaster Ceiling and Walls	33000	7	\$429,000
SPB	Plaster Seal Coat	180	3	
SPC	Veneer Plaster Walls and Ceilings (1981)	14250	7	\$185,250
SPD	Cement Plaster Walls Remodeled (1981)	750	3	
SPE	Gypsum Plaster Ceiling Remodeled (1981)	750	3	

INSPECTION PHASE I

CDB BUILDING NO./PROJECT NO.:

**B4205-B4206-B4207
910-010-010**

USER AGENCY:

Department of Mental Health/DD

USER LOCATION:

**(070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477 - Cook
County**

BUILDING NAME:

Residence Unit 205-206-207

INSPECTORS:

**Vahooman Mirkhaef (I-057)
Jay Fox (I-0471)**

HOMOGENEOUS AREA	DESCRIPTION	QUANTITY	NUMBER SAMPLES RECOMMENDED	REMOVAL COST ESTIMATE
SPF	Veneer Plaster Walls and Ceilings (1989)	45	3	
TJA	Mag Block Pipe Fitting	90	3	
MFA	1 X 1 Floor Tile and Mastic	7200	Assumed ACM	
MMA	Tape	225	3	
MMB	Fire Door - Wood Insulation	5	Assumed ACM	
MMC	Fire Door - Metal	9	Assumed ACM	

INSPECTION PHASE I

CDB BUILDING NO./PROJECT NO.:

**B4205-B4206-B4207
910-010-010**

USER AGENCY:

Department of Mental Health/DD

USER LOCATION:

**(070) Howe Mental Health Center -
7600 W. 183rd Street
Tinley Park, Illinois 60477 - Cook
County**

BUILDING NAME:

Residence Unit 205-206-207

INSPECTORS:

**Vahooman Mirkhaef (I-057)
Jay Fox (I-0471)**

HOMOGENEOUS AREA	DESCRIPTION	QUANTITY	NUMBER SAMPLES RECOMMENDED	REMOVAL COST ESTIMATE
MMD	Exhaust Backdraft Damper Insulation	45	Assumed ACM	
MME	Fire Damper Insulation	45	Assumed ACM	
MMF	Butt-up Roof and Flashings	8016	Assumed ACM	\$ 36,072
MTA	Under Floor Duct Pipe Transite	900	Assumed ACM	
MTB	Light Cover	12	Assumed ACM	

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.: B4205-B4206-B4207
901-010-010

USER AGENCY: Department of Mental Health

USER LOCATION: (070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477

BUILDING NAME: Residence Unit 205-206-207

INSPECTORS: Jay Fox
Vahooman Mirkhaef

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
MFA	1 X 1 Floor Tile and Mastic	X			
MMB	Fire Door - Wood Insulation	X			
MMC	Fire Door - Metal	X			
MMD	Exhaust Backdraft Damper Insulation	X			
MME	Fire Damper Insulation	X			
MMF	Built-up Roof and Flashings	X			

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.: B4205-B4206-B4207
 901-010-010

USER AGENCY: Department of Mental Health

USER LOCATION: (070) Howe Mental Health Center
 7600 W. 183rd Street
 Tinley Park, Illinois 60477

BUILDING NAME: Residence Unit 205-206-207

INSPECTORS: Jay Fox
 Vahooman Mirkhaef

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
MTA	Under Floor Duct Pipe Transite	X			
MTB	Light Cover	X			
SFA	Fire Proofing on Beams			7	
SPA	Veneer Plaster Ceiling and Walls			7	
SPB	Plaster Seal Coat			5	
SPC	Veneer Plaster Walls and Ceilings			7	

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.:

**B4205-B4206-B4207
901-010-010**

USER AGENCY:

Department of Mental Health

USER LOCATION:

**(070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477**

BUILDING NAME:

Residence Unit 205-206-207

INSPECTORS:

**Jay Fox
Vahooman Mirkhaef**

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
SPD	Cement Plaster Walls Remodeled			7	
SPE	Gypsum Plaster Ceiling Remodeled			7	
SPF	Veneer Plaster Walls and Ceilings (1989)			3	
TJA	Cementitious Pipe Fitting			3	
MMA	Tape			3	

ASBESTOS MANAGEMENT PLAN REPORT

CDB PROJECT NUMBER - 910-010-010

HOWE MENTAL HEALTH CENTER
DEPARTMENT OF MENTAL HEALTH AND
DEVELOPMENTAL DISABILITIES
RESIDENCE UNITS 501, 502, 503 & 504
C.D.B. BUILDING #B4501, B4502, B4503 & B4504
7600 WEST 183RD STREET
TINLEY PARK, IL 60477

STATE OF ILLINOIS

CAPITAL DEVELOPMENT BOARD

SPRINGFIELD, ILLINOIS

BY:
FOX & FOX ARCHITECTS & ENGINEERS
330 SOUTH WELLS STREET
CHICAGO, IL 60606
(312) 427-5592

DATE: OCT. 10, 1994

DATE SIGNED: 10/26/94

EXP. DATE: 11/30/96

IDPH LICENSE: 100-0471

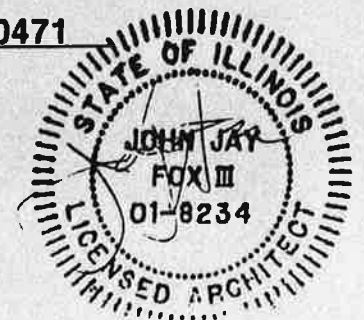


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- VIII. MMB - Fire Door - Wood
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- XI. MME - Fire Damper Insulation
- XII. MMF - Built-Up Roof and Flashings
- XIII. MTA - Under Floor Duct Pipe Transite
- XIV. MTB - Light Cover
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CAPITAL DEVELOPMENT BOARD BUILDING INVENTORY FORM 3

C.D.B. BUILDING NUMBER: B4501 BUILDING NAME: Residence Unit 501

USING AGENCY: 321 Dept. Of Mental Health/DD LOCATION: 070 Howe Development Center

BLDG. ADDRESS: 7600 West 183rd Street CITY: Tinley Park

ZIP: 60477 COUNTY: Cook HOUSE/SENATE DISTRICT: 037/19

YEAR CONSTRUCTED: 1974 GROSS SQ. FT. 2,800 TOTAL FLOORS: 1 FLOORS BELOW GRADE: 0

USE OF BUILDING WHEN CONSTRUCTED(C): Health Care CURRENT PRIMARY USE (P): Health Care CURRENT SECONDARY USE (S): N/A

PREDOMINATE CONSTRUCTION TYPE: Brick

FOR USING AGENCY USE ONLY: _____

BUILDING NOTES: _____

(FOR C.D.B. USE ONLY) ASBESTOS STATUS: _____

CAPITAL DEVELOPMENT BOARD BUILDING INVENTORY FORM 3

C.D.B. BUILDING NUMBER: B4502 BUILDING NAME: Residence Unit 502

USING AGENCY: 321 Dept. Of Mental Health/DD LOCATION: 070 Howe Development Center

BLDG. ADDRESS: 7600 West 183rd Street CITY: Tinley Park

ZIP: 60477 COUNTY: Cook HOUSE/SENATE DISTRICT: 037/19

YEAR CONSTRUCTED: 1974 GROSS SQ. FT.: 2,800 TOTAL FLOORS: 1 FLOORS BELOW GRADE: 0

USE OF BUILDING WHEN CONSTRUCTED(C): Health Care CURRENT PRIMARY USE (P): Health Care CURRENT SECONDARY USE (S): N/A

PREDOMINATE CONSTRUCTION TYPE: Brick

FOR USING AGENCY USE ONLY: _____

BUILDING NOTES: _____

(FOR C.D.B. USE ONLY)
ASBESTOS STATUS: _____

CAPITAL DEVELOPMENT BOARD BUILDING INVENTORY FORM 3

C.D.B. _____
BUILDING NUMBER: B4503 BUILDING NAME: Residence Unit 503

USING AGENCY: 321 Dept. Of Mental Health/DD LOCATION: 070 Howe Development Center

BLDG. ADDRESS: 7600 West 183rd Street CITY: Tinley Park

ZIP: 60477 COUNTY: Cook HOUSE/SENATE DISTRICT: 037/19

YEAR CONSTRUCTED: 1974 GROSS SQ. FT. 2,800 TOTAL FLOORS: 1 FLOORS BELOW GRADE: 0

USE OF BUILDING WHEN CONSTRUCTED(C): Health Care CURRENT PRIMARY USE (P): Health Care CURRENT SECONDARY USE (S): N/A

PREDOMINATE CONSTRUCTION TYPE: Brick

FOR USING AGENCY USE ONLY: _____

BUILDING NOTES: _____

(FOR C.D.B. USE ONLY)
ASBESTOS STATUS: _____

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CAPITAL DEVELOPMENT BOARD BUILDING INVENTORY FORM 3

C.D.B. BUILDING NUMBER: B4504 BUILDING NAME: Residence Unit 504

USING AGENCY: 321 Dept. Of Mental Health/DD LOCATION: 070 Howe Development Center

BLDG. ADDRESS: 7600 West 183rd Street CITY: Tinley Park

ZIP: 60477 COUNTY: Cook HOUSE/SENATE DISTRICT: 037/19

YEAR CONSTRUCTED: 1974 GROSS SQ. FT. 2,800 TOTAL FLOORS: 1 FLOORS BELOW GRADE: 0

USE OF BUILDING WHEN CONSTRUCTED(C): Health Care CURRENT PRIMARY USE (P): Health Care CURRENT SECONDARY USE (S): N/A

PREDOMINATE CONSTRUCTION TYPE: Brick

FOR USING AGENCY USE ONLY: _____

BUILDING NOTES: _____

(FOR C.D.B. USE ONLY) ASBESTOS STATUS: _____

FORM 4

INTRODUCTION TO THE MANAGEMENT PLAN

A. Policy Statement

This Management Plan is intended to be a working document which will serve as a guide to staff, employees, occupants and visitors in minimizing the risk of exposure to asbestos fibers. The State of Illinois recognizes the serious health hazards associated with asbestos fibers. The State has conducted an inspection of this facility in order to determine whether asbestos is present, and if so, where the asbestos is located.

This Management Plan sets forth the recommended response actions for the ACM (asbestos containing material) within this facility. Further, where required, an Operations & Maintenance (O & M) Program has been established which will be implemented by facility staff.

This Plan has been reviewed by CDB, the Contracting Agency and the Using Agency and represents the policies and procedures to be implemented with respect to any ACM within this facility.

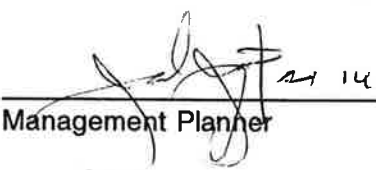
Dated: _____

Capital Development Board Representative

Dated: _____

Agency (Designated Person)

Dated: 10/26/94



Management Planner

The data linking asbestos exposure to mesothelioma is based upon many of the same epidemiological studies of workers that demonstrated an association between asbestos exposure and lung cancer. The findings are somewhat different than for lung cancer. Lower non-occupational exposures have also been associated with mesothelioma in addition to occupational exposure. Therefore, lower levels of exposure to asbestos as found in some non-occupational settings may give rise to mesothelioma. Secondly, the nature of the dose response relationship may be different from that of lung cancer. The risk continues to increase as the number of years since first exposure increases. In many cases, a latent period of more than 40 years has been described.

Gastrointestinal Cancer - Several of the epidemiological studies of workers occupationally exposed to asbestos have shown increased risks of gastrointestinal cancer including cancers of the colon, rectum, stomach and esophagus. The risk, however, does not appear to be as great as for lung cancer. To date, no association has been found between asbestos in drinking water and gastrointestinal cancer.

Asbestos Related Pleural Disease - This category of health effects includes fibrous and sometimes calcified plaques as well as diffuse thickening of the pleura and the pleural effusion. These are non-cancerous changes of the membranes surrounding the lungs and commonly occur many years after asbestos exposure. The presence of plaques suggests prior asbestos exposure but usually does not cause any symptoms or respiratory impairment.

Asbestosis - Asbestosis is a disabling lung disorder consisting of generalized scarring of the lungs which causes shortness of breath on exertion. Asbestosis has been described almost exclusively in workers with occupational exposure to high concentrations of asbestos-containing dusts. In asbestosis, there appears to be a very strong dose response relationship in that the greater the concentration of asbestos fibers, and the longer the duration of exposure, the greater the likelihood and severity of asbestosis.

As with the other asbestos related health effects, there is usually a time lag or latent period of several years before the development of disease. Once acquired, asbestosis tends to progress slowly, sometimes for years after asbestos exposure has ended.

CDB BUILDING NO.'S

B4501-B4502-B4503-B4504

The individual residential units were constructed in 1974 with common walls as a single building at the Howe Mental Health Facility. The exterior brick wall system was replaced in 1979 due to structural failure. The major remodeling work required replacement of interior plaster ceiling and walls.

The building is single story and has a combined square footage of 11200 square feet. There are no attics, crawlspace or basement.

The building is used to house patients for the Howe Mental Health Facility.

The exterior material is brick veneer with interior steel channels and studs supporting gypsum board and plaster. Steel columns and beams support bar joist and metal roof deck.

The roof is flat except for a sloped section near the front doors of the individual residential units. The flat roof is constructed of build-up roofing on mineral insulation. The pitch roof is terne metal. The roof is deteriorating and should be replaced.

The building is heated and cooled by a forced air system.

Under floor and overhead ducts supply air to all rooms in the residence. The HVAC systems appear in good working order. Hot water heaters in the mechanical rooms supply hot water to the building. The energy source for furnaces and hot water heaters is gas.

To the best of our knowledge there has not been any asbestos abatement in this building.

No asbestos was detected in any of the material sampled. Areas assumed to contain asbestos were not sampled and no determination of their content can be made. Any asbestos in this building would cause relatively little hazard.

SUMMARY OF FINDINGS

INSPECTION PHASE I

CDB BUILDING NO./PROJECT NO.:

**B4501-B4502-B4503-B4504
910-010-010**

USER AGENCY:

Department of Mental Health/DD

USER LOCATION:

**(070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477 - Cook
County**

BUILDING NAME:

Residence Unit 501-502-503-504

INSPECTORS:

**Vahooman Mirkhaef (I-057)
Jay Fox (I-0471)**

HOMOGENEOUS AREA	DESCRIPTION	QUANTITY	NUMBER SAMPLES RECOMMENDED	REMOVAL COST ESTIMATE
SFA	Fire Proofing on Beams	1500	5	
SPA	Veneer Plaster Ceiling and Walls	44000	7	\$572,000
SPB	Plaster Seal Coat	240	3	
SPC	Veneer Plaster Walls and Ceilings (1979)	19000	7	\$247,000
SPD	Cement Plaster Walls Remodeled (1979)	1000	5	
SPE	Gypsum Plaster Ceiling Remodeled (1979)	1000	5	

INSPECTION PHASE I

CDB BUILDING NO./PROJECT NO.:

**B4501-B4502-B4503-B4504
910-010-010**

USER AGENCY:

Department of Mental Health/DD

USER LOCATION:

**(070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477 - Cook
County**

BUILDING NAME:

Residence Unit 501-502-503-504

INSPECTORS:

**Vahooman Mirkhaef (I-057)
Jay Fox (I-0471)**

HOMOGENEOUS AREA	DESCRIPTION	QUANTITY	NUMBER SAMPLES RECOMMENDED	REMOVAL COST ESTIMATE
SPF	Veneer Plaster Walls and Ceilings (1989)	60	3	
TJA	Mag Block Pipe Fitting	120	3	
MFA	1 X 1 Floor Tile and Mastic	9600	Assumed ACM	
MMA	Tape	300	3	
MMB	Fire Door - Wood Insulation	7	Assumed ACM	
MMC	Fire Door - Metal	12	Assumed ACM	

INSPECTION PHASE I

CDB BUILDING NO./PROJECT NO.:

**B4501-B4502-B4503-B4504
910-010-010**

USER AGENCY:

Department of Mental Health/DD

USER LOCATION:

**(070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477 - Cook
County**

BUILDING NAME:

Residence Unit 501-502-503-504

INSPECTORS:

**Vahooman Mirkhaef (I-057)
Jay Fox (I-0471)**

HOMOGENEOUS AREA	DESCRIPTION	QUANTITY	NUMBER SAMPLES RECOMMENDED	REMOVAL COST ESTIMATE
MMD	Exhaust Backdraft Damper Insulation	60	Assumed ACM	
MME	Fire Damper Insulation	60	Assumed ACM	
MMF	Built-up Roof and Flashings	10816	Assumed ACM	\$ 48,672
MTA	Under Floor Duct Pipe Transite	1200	Assumed ACM	
MTB	Light Cover	16	Assumed ACM	

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.: B4501-B4502-B4503-B4504
901-010-010

USER AGENCY: Department of Mental Health

USER LOCATION: (070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477

BUILDING NAME: Residence Unit 501-502-503-504

INSPECTORS: Jay Fox
Vahooman Mirkhaef
David Sloman

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
MTB	Light Cover	X			
SFA	Fire Proofing on Beams			7	
SPA	Veneer Plaster Ceiling and Walls			7	
SPB	Plaster Seal Coat			5	
SPC	Veneer Plaster Walls and Ceilings(1979)			7	
SPD	Cement Plaster Walls Remodeled (1979)			7	

SUMMARY OF FINDINGS

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.: B4501-B4502-B4503-B4504
901-010-010

USER AGENCY: Department of Mental Health

USER LOCATION: (070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477

BUILDING NAME: Residence Unit 501-502-503-504

INSPECTORS: Jay Fox
Vahooman Mirkhaef
David Sloman

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
SPE	Gypsum Plaster Ceiling Remodeled(1979)			7	
SPF	Veneer Plaster Walls and Ceilings (1989)			3	
TJA	Cementitious Pipe Fitting			3	
MMA	Tape			3	

FORM 6 - SUMMARY OF FINDINGS

MANAGEMENT PLAN PHASE III

Residence Units 501, 502,
503 & 504

BUILDING NAME

LIST IN ORDER OF RESPONSE ACTION NUMBER

C.D.B. BUILDING NUMBER B4501, B4502,
B4503 & B4504

HOMOGENEOUS AREA	MATERIAL DESCRIPTION	ACM CONTENT (%)			DAMAGE ASSESSMENT							RESPONSE ACTION	
		CHRYSOTILE	AMOSITE	OTHER	ASSUMED ACM	NO DAMAGE	SALIENT DAMAGE	SIGNIFICANT DAMAGE	NO POTENTIAL DAMAGE	POTENTIAL DAMAGE	POTENTIAL SIGNIFICANT DAMAGE		NUMBER
MFA	1 x 1 Floor Tile and Mastic				X				X			8	O&M
MMB	Wood Fire Door Insulation				X				X			8	O&M
MMC	Metal Fire Door Insulation				X				X			8	O&M
MMD	Insulation at Back-Draft Dampers				X				X			8	O&M
MME	Insulation at Fire Dampers				X				X			8	O&M
MMF	Built-Up Roof, Flashings & Mastic				X				X			8	O&M
MTA	Under Floor Duct (Transite)				X				X			8	O&M
MTB	Transite Light Covers				X				X			8	O&M

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.:

**B4501-B4502-B4503-B4504
901-010-010**

USER AGENCY:

Department of Mental Health

USER LOCATION:

**(070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477**

BUILDING NAME:

Residence Unit 501-502-502-504

INSPECTORS:

**Jay Fox
Vahooman Mirkhaef
David Sloman**

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
MFA	1 X 1 Floor Tile and Mastic	X			
MMB	Fire Door	X			
MMC	Fire Door-Metal Insulation	X			
MMD	Exhaust Backdraft Damper Insulation	X			
MME	Fire Damper Insulation	X			
MMF	Built-Up Roof and Flashings	X			
MTA	Under Floor Duct Pipe Transite	X			

ASBESTOS MANAGEMENT PLAN REPORT

CDB PROJECT NUMBER - 910-010-010

HOWE MENTAL HEALTH CENTER
DEPARTMENT OF MENTAL HEALTH AND
DEVELOPMENTAL DISABILITIES
NEIGHBORHOOD HOUSE 100
C.D.B. BUILDING #B4100
7600 WEST 183RD STREET
TINLEY PARK, IL 60477

STATE OF ILLINOIS

CAPITAL DEVELOPMENT BOARD

SPRINGFIELD, ILLINOIS

BY:
FOX & FOX ARCHITECTS & ENGINEERS
330 SOUTH WELLS STREET
CHICAGO, IL 60606
(312) 427-5592

DATE: OCT. 10, 1994

DATE SIGNED: 10/26/94

EXP. DATE: 11/30/96

IDPH LICENSE: 100-0471

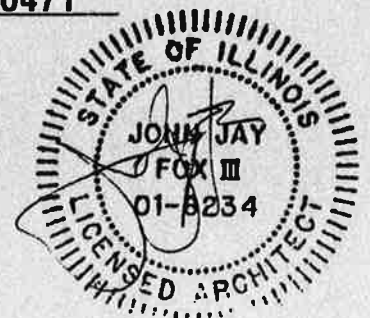
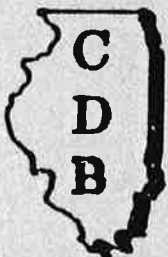


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Neighborhood House 100

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- IX. MMC - Exhaust Back Draft Damper Insulation
- X. MTA - Transite Floor Duct
- XI. SFA - Fire Proofing Insulation
- XII. SPA - Veneer Plastic Ceiling and Walls
- XIII. SPB - Plaster Seal Coat
- XIV. SPC - Veneer Plaster Walls and Ceiling (1988)
- XV. TDA - Vent Duct Insulation
- XVI. TJA - Cementitious Fittings on Fiberglass Pipe
- XVII. MCA - 1 x 1 Ceiling Tile
- XVIII. MMA - Seam Tape

- XIX. Cost Summary
- XX. Chain of Custody
- XXI. Licenses and Accreditations
- XXII. Operation and Maintenance Plan

CAPITAL DEVELOPMENT BOARD BUILDING INVENTORY FORM 3

C.D.B. BUILDING NUMBER: B4100 BUILDING NAME: Neighborhood House 100

USING AGENCY: 321 Dept. Of Mental Health/DD LOCATION: 070 Howe Development Center

BLDG. ADDRESS: 7600 West 183rd Street CITY: Tinley Park

ZIP: 60477 COUNTY: Cook HOUSE/SENATE DISTRICT: 037/19

YEAR CONSTRUCTED: 1974 GROSS SQ. FT. 2400 TOTAL FLOORS: 1 FLOORS BELOW GRADE: 0

USE OF BUILDING WHEN CONSTRUCTED(C): Health Care CURRENT PRIMARY USE (P): Health Care CURRENT SECONDARY USE (S): N/A

PREDOMINATE CONSTRUCTION TYPE: Brick

FOR USING AGENCY USE ONLY: _____

BUILDING NOTES: _____

(FOR C.D.B. USE ONLY) ASBESTOS STATUS: _____

FORM 4

INTRODUCTION TO THE MANAGEMENT PLAN

A. Policy Statement

This Management Plan is intended to be a working document which will serve as a guide to staff, employees, occupants and visitors in minimizing the risk of exposure to asbestos fibers. The State of Illinois recognizes the serious health hazards associated with asbestos fibers. The State has conducted an inspection of this facility in order to determine whether asbestos is present, and if so, where the asbestos is located.

This Management Plan sets forth the recommended response actions for the ACM (asbestos containing material) within this facility. Further, where required, an Operations & Maintenance (O & M) Program has been established which will be implemented by facility staff.

This Plan has been reviewed by CDB, the Contracting Agency and the Using Agency and represents the policies and procedures to be implemented with respect to any ACM within this facility.

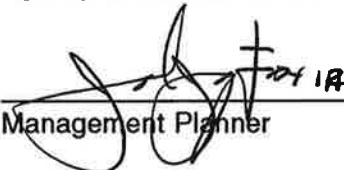
Dated: _____

Capital Development Board Representative

Dated: _____

Agency (Designated Person)

Dated: 10/10/94



Management Planner

The data linking asbestos exposure to mesothelioma is based upon many of the same epidemiological studies of workers that demonstrated an association between asbestos exposure and lung cancer. The findings are somewhat different than for lung cancer. Lower non-occupational exposures have also been associated with mesothelioma in addition to occupational exposure. Therefore, lower levels of exposure to asbestos as found in some non-occupational settings may give rise to mesothelioma. Secondly, the nature of the dose response relationship may be different from that of lung cancer. The risk continues to increase as the number of years since first exposure increases. In many cases, a latent period of more than 40 years has been described.

Gastrointestinal Cancer - Several of the epidemiological studies of workers occupationally exposed to asbestos have shown increased risks of gastrointestinal cancer including cancers of the colon, rectum, stomach and esophagus. The risk, however, does not appear to be as great as for lung cancer. To date, no association has been found between asbestos in drinking water and gastrointestinal cancer.

Asbestos Related Pleural Disease - This category of health effects includes fibrous and sometimes calcified plaques as well as diffuse thickening of the pleura and the pleural effusion. These are non-cancerous changes of the membranes surrounding the lungs and commonly occur many years after asbestos exposure. The presence of plaques suggests prior asbestos exposure but usually does not cause any symptoms or respiratory impairment.

Asbestosis - Asbestosis is a disabling lung disorder consisting of generalized scarring of the lungs which causes shortness of breath on exertion. Asbestosis has been described almost exclusively in workers with occupational exposure to high concentrations of asbestos-containing dusts. In asbestosis, there appears to be a very strong dose response relationship in that the greater the concentration of asbestos fibers, and the longer the duration of exposure, the greater the likelihood and severity of asbestosis.

As with the other asbestos related health effects, there is usually a time lag or latent period of several years before the development of disease. Once acquired, asbestosis tends to progress slowly, sometimes for years after asbestos exposure has ended.

CDB BUILDING B4100

BUILDING NAME : Neighborhood House No. 1

The neighborhood house was constructed in 1974; it is part of a residential unit complex for the patients at the Howe Mental Health Center. The exterior brick wall system was replaced in 1988 due to structural failure. The major remodeling work required replacement of interior plaster ceilings and walls.

The building is single story and has a square footage of 2,400 square feet. There are no attics, crawlspace or basements.

The building is used for health care administration purposes for the Howe Mental Health Facility.

The exterior surfacing material is brick veneer with interior gypsum board and veneer plaster. Steel columns and beams support bar joists and metal roof deck.

The roof is flat except for a sloped section. The roofs were replaced in 1990. The flat roof is constructed of a single ply roofing system on insulation. The pitched roof is steel construction.

The building is heated and cooled by a forced air system. Under floor and overhead ducts supply air to all the rooms in the house. An overhead return air system brings air back to the mechanical room. The HVAC system appears in good working order. A hot water heater in the mechanical room supplies hot water to the building. The furnaces and hot water energy source is gas.

To the best of our knowledge there has not been any asbestos abatement in this building.

No asbestos was detected in any of the material sampled. Areas assumed to contain asbestos were not sampled and no determination of their content can be made. Any asbestos in this building would cause relatively little hazard.

SUMMARY OF FINDINGS

INSPECTION PHASE I

CDB BUILDING NO./PROJECT NO.:

**B4100
910-010-010**

USER AGENCY:

Department of Mental Health/DD

USER LOCATION:

**(070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477 - Cook
County**

BUILDING NAME:

Neighborhood House - 100

INSPECTORS:

**Vahooman Mirkhaef (I-057)
Jay Fox (I-0471)**

HOMOGENEOUS AREA	DESCRIPTION	QUANTITY	NUMBER SAMPLES RECOMMENDED	REMOVAL COST ESTIMATE
SFA	Fire Proofing on Beams	268	3	
SPA	Veneer Plaster Ceiling and Walls	11000	7	\$143,000
SPB	Plaster Seal Coat	60	3	
SPC	Veneer Plaster Walls and Ceilings (1988)	2400	5	
TDA	Insulation on Vent Duct	150	3	
TJA	Mag Block Pipe Fitting	30	3	

INSPECTION PHASE I

CDB BUILDING NO./PROJECT NO.:

**B4100
910-010-010**

USER AGENCY:

Department of Mental Health/DD

USER LOCATION:

**(070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477 - Cook
County**

BUILDING NAME:

Neighborhood House - 100

INSPECTORS:

**Vahooman Mirkhaef (I-057)
Jay Fox (I-0471)**

HOMOGENEOUS AREA	DESCRIPTION	QUANTITY	NUMBER SAMPLES RECOMMENDED	REMOVAL COST ESTIMATE
MCA	1 X 1 Ceiling Tile	750	3	
MFA	1 X 1 Floor Tile and Mastic	1900	Assumed ACM	
MMA	Tape on Plaster Wall	30	3	
MMB	Fire Damper Insulation	15	Assumed ACM	
MMC	Exhaust Backdraft Damper Insulation	15	Assumed ACM	
MTA	Under Floor Duct Pipe Transite	300	Assumed ACM	

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.: B4100
901-010-010

USER AGENCY: Department of Mental Health

USER LOCATION: (070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477

BUILDING NAME: Neighborhood House No.: 1

INSPECTORS: Vahooman Mirkhaef
Jay Fox
David Sloman

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
MFA	1 X 1 Floor Tile and Mastic	X			
MMB	Insulation on Fire Damper	X			
MMC	Exhaust Back Draft Damper Insulation	X			
MTA	Transite Floor Duct	X			
SFA	Fire Proofing Insulation			5	
SPA	Veneer Plaster Ceiling and Walls			7	

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.: B4100
901-010-010

USER AGENCY: Department of Mental Health

USER LOCATION: (070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477

BUILDING NAME: Neighborhood House No.: 1

INSPECTORS: Vahooman Mirkhaef
Jay Fox
David Sloman

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
SPB	Plaster Seal Coat			1	
SPC	Veneer Plaster Walls and Ceiling (1988)			7	
TDA	Vent Duct Insulation			3	
TJA	Cementitious Fittings on Fiberglass Pipe			3	
MCA	1 X 1 Ceiling Tile			3	
MMA	Seam Tape			3	

FORM 6 - SUMMARY OF FINDINGS

MANAGEMENT PLAN PHASE III

BUILDING NAME Neighborhood House 100

LIST IN ORDER OF RESPONSE ACTION NUMBER

C.D.B. BUILDING NUMBER B4100

HOMOGENEOUS AREA	MATERIAL DESCRIPTION	ACM CONTENT (%)				DAMAGE ASSESSMENT								
		CHRYSOTILE	AMOSITE	OTHER	ASSUMED ACM	NO DAMAGE	SALENT	DAMAGE	SIGNIFICANT DAMAGE	NO POTENTIAL DAMAGE	POTENTIAL SIGNIFICANT DAMAGE	POTENTIAL SIGNIFICANT DAMAGE	NUMBER	RESPONSE ACTION
MFA	1 x 1 Floor Tile and Mastic Insulation on Fire Damper Exhaust Back-Draft Damper Insulation Under Floor Duct Pipe (Transite)				X				X				8	O&M
MMB					X				X				8	O&M
MMC					X					X			8	O&M
MTA					X					X			8	O&M

ASBESTOS MANAGEMENT PLAN REPORT

CDB PROJECT NUMBER - 910-010-010

HOWE MENTAL HEALTH CENTER
DEPARTMENT OF MENTAL HEALTH AND
DEVELOPMENTAL DISABILITIES
NEIGHBORHOOD HOUSE 200
C.D.B. BUILDING #B4200
7600 WEST 183RD STREET
TINLEY PARK, IL 60477

STATE OF ILLINOIS

CAPITAL DEVELOPMENT BOARD

SPRINGFIELD, ILLINOIS

BY:
FOX & FOX ARCHITECTS & ENGINEERS
330 SOUTH WELLS STREET
CHICAGO, IL 60606
(312) 427-5592

DATE: OCT. 10, 1994

DATE SIGNED: 10/26/94

EXP. DATE: 11/30/96

IDPH LICENSE: 100-0471

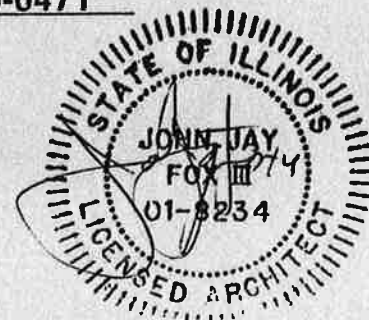
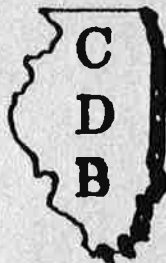


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- XVII. MCA - 1 x 1 Ceiling Tile
- XVIII. MMA - Seam Tape

- XIX. Cost Summary
- XX. Chain of Custody
- XXI. Licenses and Accreditations
- XXII. Operation and Maintenance Plan

CAPITAL DEVELOPMENT BOARD BUILDING INVENTORY FORM 3

C.D.B. BUILDING NUMBER: B4200 BUILDING NAME: Neighborhood House 200

USING AGENCY: 321 Dept. Of Mental Health/DD LOCATION: 070 Howe Development Center

BLDG. ADDRESS: 7600 West 183rd Street CITY: Tinley Park

ZIP: 60477 COUNTY: Cook HOUSE/SENATE DISTRICT: 037/19

YEAR CONSTRUCTED: 1974 GROSS SQ. FT. 2400 TOTAL FLOORS: 1 FLOORS BELOW GRADE: 0

USE OF BUILDING WHEN CONSTRUCTED(C): Health Care CURRENT PRIMARY USE (P): Health Care CURRENT SECONDARY USE (S): N/A

PREDOMINATE CONSTRUCTION TYPE: Brick

FOR USING AGENCY USE ONLY: _____

BUILDING NOTES: _____

(FOR C.D.B. USE ONLY)
ASBESTOS STATUS: _____

FORM 4

INTRODUCTION TO THE MANAGEMENT PLAN

A. Policy Statement

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This Management Plan sets forth the recommended response actions for the ACM (asbestos containing material) within this facility. Further, where required, an Operations & Maintenance (O & M) Program has been established which will be implemented by facility staff.

This Plan has been reviewed by CDB, the Contracting Agency and the Using Agency and represents the policies and procedures to be implemented with respect to any ACM within this facility.

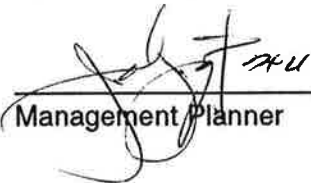
Dated: _____

Capital Development Board Representative

Dated: _____

Agency (Designated Person)

Dated: 10/26/94



Management Planner

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Gastrointestinal Cancer - Several of the epidemiological studies of workers occupationally exposed to asbestos have shown increased risks of gastrointestinal cancer including cancers of the colon, rectum, stomach and esophagus. The risk, however, does not appear to be as great as for lung cancer. To date, no association has been found between asbestos in drinking water and gastrointestinal cancer.

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Asbestosis - Asbestosis is a disabling lung disorder consisting of generalized scarring of the lungs which causes shortness of breath on exertion. Asbestosis has been described almost exclusively in workers with occupational exposure to high concentrations of asbestos-containing dusts. In asbestosis, there appears to be a very strong dose response relationship in that the greater the concentration of asbestos fibers, and the longer the duration of exposure, the greater the likelihood and severity of asbestosis.

As with the other asbestos related health effects, there is usually a time lag or latent period of several years before the development of disease. Once acquired, asbestosis tends to progress slowly, sometimes for years after asbestos exposure has ended.

CDB BUILDING B4200

BUILDING NAME : Neighborhood House No. 2

The neighborhood house was constructed in 1974; it is part of a residential unit complex for the patients at the Howe Mental Health Center. The exterior brick wall system was replaced in 1988 due to structural failure. The major remodeling work required replacement of interior plaster ceilings and walls.

The building is single story and has a square footage of 2,400 square feet. There are no attics, crawlspace or basements.

The building is used for health care administration purposes for the Howe Mental Health Facility.

The exterior surfacing material is brick veneer with interior gypsum board and veneer plaster. Steel columns and beams support bar joists and metal roof deck.

The roof is flat except for a sloped section. The roofs were replaced in 1990. The flat roof is constructed of a single ply roofing system on insulation. The pitched roof is steel construction.

The building is heated and cooled by a forced air system. Under floor and overhead ducts supply air to all the rooms in the house. An overhead return air system brings air back to the mechanical room. The HVAC system appears in good working order. A hot water heater in the mechanical room supplies hot water to the building. The furnaces and hot water energy source is gas.

To the best of our knowledge there has not been any asbestos abatement in this building.

No asbestos was detected in any of the material sampled. Areas assumed to contain asbestos were not sampled and no determination of their content can be made. Any asbestos in this building would cause relatively little hazard.

SUMMARY OF FINDINGS

INSPECTION PHASE I

CDB BUILDING NO./PROJECT NO.: B4200
 910-010-010

USER AGENCY: Department of Mental Health/DD

USER LOCATION: (070) Howe Mental Health Center
 7600 W. 183rd Street
 Tinley Park, Illinois 60477 - Cook
 County

BUILDING NAME: Neighborhood House - 200

INSPECTORS: Vahooman Mirkhaef (I-057)
 Jay Fox (I-0471)

HOMOGENEOUS AREA	DESCRIPTION	QUANTITY	NUMBER SAMPLES RECOMMENDED	REMOVAL COST ESTIMATE
SFA	Fire Proofing on Beams	268	3	
SPA	Veneer Plaster Ceiling and Walls	11000	7	\$143,000
SPB	Plaster Seal Coat	60	3	
SPC	Veneer Plaster Walls and Ceilings (1988)	2400	5	
TDA	Insulation on Vent Duct	150	3	
TJA	Mag Block Pipe Fitting	30	3	

INSPECTION PHASE I

CDB BUILDING NO./PROJECT NO.:

**B4200
910-010-010**

USER AGENCY:

Department of Mental Health/DD

USER LOCATION:

**(070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477 - Cook
County**

BUILDING NAME:

Neighborhood House - 200

INSPECTORS:

**Vahooman Mirkhaef (I-057)
Jay Fox (I-0471)**

HOMOGENEOUS AREA	DESCRIPTION	QUANTITY	NUMBER SAMPLES RECOMMENDED	REMOVAL COST ESTIMATE
MCA	1 X 1 Ceiling Tile	750	3	
MFA	1 X 1 Floor Tile and Mastic	1900	Assumed ACM	
MMA	Tape on Plaster Wall	30	3	
MMB	Fire Damper Insulation	15	Assumed ACM	
MMC	Exhaust Backdraft Damper Insulation	15	Assumed ACM	
MTA	Under Floor Duct Pipe Transite	300	Assumed ACM	

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.: B4200
 901-010-010

USER AGENCY: Department of Mental Health

USER LOCATION: (070) Howe Mental Health Center
 7600 W. 183rd Street
 Tinley Park, Illinois 60477

BUILDING NAME: Neighborhood House No.: 2

INSPECTORS: Vahooman Mirkhaef
 Jay Fox
 David Sloman

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
MFA	1 X 1 Floor Tile and Mastic	X			
MMB	Insulation on Fire Damper	X			
MMC	Exhaust Back Draft Damper Insulation	X			
MTA	Transite Floor Duct	X			
SFA	Fire Proofing Insulation			5	
SPA	Veneer Plaster Ceiling and Walls			7	

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.: B4200
901-010-010

USER AGENCY: Department of Mental Health

USER LOCATION: (070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477

BUILDING NAME: Neighborhood House No.: 2

INSPECTORS: Vahooman Mirkhaef
Jay Fox
David Sloman

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
SPB	Plaster Seal Coat			1	
SPC	Veneer Plaster Walls and Ceiling (1988)			7	
TDA	Vent Duct Insulation			3	
TJA	Cementitious Fittings on Fiberglass Pipe			3	
MCA	1 X 1 Ceiling Tile			3	
MMA	Seam Tape			3	

FORM 6 - SURVEY OF FINDINGS

MANAGEMENT PLAN PHASE III

BUILDING NAME

Neighborhood House 200

LIST IN ORDER OF RESPONSE ACTION NUMBER

C.D.B. BUILDING NUMBER B4200

HOMOGENEOUS AREA	MATERIAL DESCRIPTION	ACM CONTENT (%)			DAMAGE ASSESSMENT							RESPONSE ACTION	DESCRIPTION (I.E. REMOVE, REPAIR, ENCLOSE, ENCAPSULATE, OR O&M)	
		CHRYSOTILE	AMOSITE	OTHER	ASSUMED ACM	NO DAMAGE	SALENT DAMAGE	SIGNIFICANT DAMAGE	NO POTENTIAL DAMAGE	POTENTIAL DAMAGE	POTENTIAL SIGNIFICANT DAMAGE			NUMBER
MFA	1 x 1 Floor Tile and Mastic Insulation on Fire Damper Exhaust Back-Draft Damper Insulation Under Floor Duct Pipe (Transite)				X				X			8	O&M	
MMB					X			X				8	O&M	
MMC					X			X				8	O&M	
MTA					X			X				8	O&M	

ASBESTOS MANAGEMENT PLAN REPORT

CDB PROJECT NUMBER - 910-010-010

HOWE MENTAL HEALTH CENTER
DEPARTMENT OF MENTAL HEALTH AND
DEVELOPMENTAL DISABILITIES
NEIGHBORHOOD HOUSE 400
C.D.B. BUILDING #B4400
7600 WEST 183RD STREET
TINLEY PARK, IL 60477

STATE OF ILLINOIS

CAPITAL DEVELOPMENT BOARD

SPRINGFIELD, ILLINOIS

BY:
FOX & FOX ARCHITECTS & ENGINEERS
330 SOUTH WELLS STREET
CHICAGO, IL 60606
(312) 427-5592

DATE: OCT. 10, 1994

DATE SIGNED: 10/26/94

EXP. DATE: 11/30/96

IDPH LICENSE: 100-0471

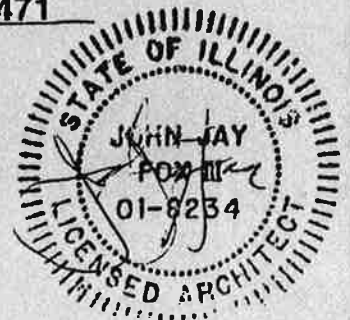


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CDB BUILDING NO.: B4400
Neighborhood House 400

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- V. Site Plan
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- XX. Chain of Custody
- XXI. Licenses and Accreditations
- XXII. Operation and Maintenance Plan

CAPITAL DEVELOPMENT BOARD BUILDING INVENTORY FORM 3

C.D.B. BUILDING NUMBER: B4400 BUILDING NAME: Neighborhood House 400

USING AGENCY: 321 Dept. Of Mental Health/DD LOCATION: 070 Howe Development Center

BLDG. ADDRESS: 7600 West 183rd Street CITY: Tinley Park

ZIP: 60477 COUNTY: Cook HOUSE/SENATE DISTRICT: 037/19

YEAR CONSTRUCTED: 1974 GROSS SQ. FT. 2400 TOTAL FLOORS: 1 FLOORS BELOW GRADE: 0

USE OF BUILDING WHEN CONSTRUCTED(C): Health Care CURRENT PRIMARY USE (P): Health Care CURRENT SECONDARY USE (S): N/A

PREDOMINATE CONSTRUCTION TYPE: Brick

FOR USING AGENCY USE ONLY: _____

BUILDING NOTES: _____

(FOR C.D.B. USE ONLY)
ASBESTOS STATUS: _____

FORM 4

INTRODUCTION TO THE MANAGEMENT PLAN

A. Policy Statement

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This Management Plan sets forth the recommended response actions for the ACM (asbestos containing material) within this facility. Further, where required, an Operations & Maintenance (O & M) Program has been established which will be implemented by facility staff.

This Plan has been reviewed by CDB, the Contracting Agency and the Using Agency and represents the policies and procedures to be implemented with respect to any ACM within this facility.


Dated: _____

Capital Development Board Representative

Dated: _____

Agency (Designated Person)

Dated: 10/20/94



Management Planner

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Asbestosis - Asbestosis is a disabling lung disorder consisting of generalized scarring of the lungs which causes shortness of breath on exertion. Asbestosis has been described almost exclusively in workers with occupational exposure to high concentrations of asbestos-containing dusts. In asbestosis, there appears to be a very strong dose response relationship in that the greater the concentration of asbestos fibers, and the longer the duration of exposure, the greater the likelihood and severity of asbestosis.

As with the other asbestos related health effects, there is usually a time lag or latent period of several years before the development of disease. Once acquired, asbestosis tends to progress slowly, sometimes for years after asbestos exposure has ended.

CDB BUILDING B4400

BUILDING NAME : Neighborhood House No. 4

The neighborhood house was constructed in 1974; it is part of a residential unit complex for the patients at the Howe Mental Health Center. The exterior brick wall system was replaced in 1988 due to structural failure. The major remodeling work required replacement of interior plaster ceilings and walls.

The building is single story and has a square footage of 2,400 square feet. There are no attics, crawlspace or basements.

The building is used for health care administration purposes for the Howe Mental Health Facility.

The exterior surfacing material is brick veneer with interior gypsum board and veneer plaster. Steel columns and beams support bar joists and metal roof deck.

The roof is flat except for a sloped section. The roofs were replaced in 1990. The flat roof is constructed of a single ply roofing system on insulation. The pitched roof is steel construction.

The building is heated and cooled by a forced air system. Under floor and overhead ducts supply air to all the rooms in the house. An overhead return air system brings air back to the mechanical room. The HVAC system appears in good working order. A hot water heater in the mechanical room supplies hot water to the building. The furnaces and hot water energy source is gas.

To the best of our knowledge there has not been any asbestos abatement in this building.

No asbestos was detected in any of the material sampled. Areas assumed to contain asbestos were not sampled and no determination of their content can be made. Any asbestos in this building would cause relatively little hazard.

SUMMARY OF FINDINGS

INSPECTION PHASE I

CDB BUILDING NO./PROJECT NO.:

**B4400
910-010-010**

USER AGENCY:

Department of Mental Health/DD

USER LOCATION:

**(070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477 - Cook
County**

BUILDING NAME:

Neighborhood House - 400

INSPECTORS:

**Vahooman Mirkhaef (I-057)
Jay Fox (I-0471)**

HOMOGENEOUS AREA	DESCRIPTION	QUANTITY	NUMBER SAMPLES RECOMMENDED	REMOVAL COST ESTIMATE
SFA	Fire Proofing on Beams	268	3	
SPA	Veneer Plaster Ceiling and Walls	11000	7	\$143,000
SPB	Plaster Seal Coat	60	3	
SPC	Veneer Plaster Walls and Ceilings (1988)	2400	5	
TDA	Insulation on Vent Duct	150	3	
TJA	Mag Block Pipe Fitting	30	3	

INSPECTION PHASE I

CDB BUILDING NO./PROJECT NO.:

**B4400
910-010-010**

USER AGENCY:

Department of Mental Health/DD

USER LOCATION:

**(070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477 - Cook
County**

BUILDING NAME:

Neighborhood House - 400

INSPECTORS:

**Vahooman Mirkhaef (I-057)
Jay Fox (I-0471)**

HOMOGENEOUS AREA	DESCRIPTION	QUANTITY	NUMBER SAMPLES RECOMMENDED	REMOVAL COST ESTIMATE
MCA	1 X 1 Ceiling Tile	750	3	
MFA	1 X 1 Floor Tile and Mastic	1900	Assumed ACM	
MMA	Tape on Plaster Wall	30	3	
MMB	Fire Damper Insulation	15	Assumed ACM	
MMC	Exhaust Backdraft Damper Insulation	15	Assumed ACM	
MTA	Under Floor Duct Pipe Transite	300	Assumed ACM	

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.: B4400
901-010-010

USER AGENCY: Department of Mental Health

USER LOCATION: (070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477

BUILDING NAME: Neighborhood House No.: 4

INSPECTORS: Vahooman Mirkhaef
Jay Fox
David Sloman

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
MFA	1 X 1 Floor Tile and Mastic	X			
MMB	Insulation on Fire Damper	X			
MMC	Exhaust Back Draft Damper Insulation	X			
MTA	Transite Floor Duct	X			
SFA	Fire Proofing Insulation			5	
SPA	Veneer Plaster Ceiling and Walls			7	

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.: B4400
901-010-010

USER AGENCY: Department of Mental Health

USER LOCATION: (070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477

BUILDING NAME: Neighborhood House No.: 4

INSPECTORS: Vahooman Mirkhaef
Jay Fox
David Sloman

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
SPB	Plaster Seal Coat			1	
SPC	Veneer Plaster Walls and Ceiling (1988)			7	
TDA	Vent Duct Insulation			3	
TJA	Cementitious Fittings on Fiberglass Pipe			3	
MCA	1 X 1 Ceiling Tile			3	
MMA	Seam Tape			3	

FORM 6 SU IARY OF FINDINGS

MANAGEMENT PLAN PHASE III

BUILDING NAME

Neighborhood House 400

LIST IN ORDER OF RESPONSE ACTION NUMBER

C.D.B. BUILDING NUMBER B4400

HOMOGENEOUS AREA	MATERIAL DESCRIPTION	ACM CONTENT (%)			DAMAGE ASSESSMENT								RESPONSE ACTION
		CHRYSOTILE	AMOSITE	OTHER	ASSUMED ACM	NO DAMAGE	SALIENT DAMAGE	SIGNIFICANT DAMAGE	NO POTENTIAL DAMAGE	POTENTIAL DAMAGE	POTENTIAL SIGNIFICANT DAMAGE	NUMBER	
MFA	1 x 1 Floor Tile and Mastic				X				X			8	O&M
MMB	Insulation on Fire Damper				X				X			8	O&M
MMC	Exhaust Back-Draft Damper Insulation				X				X			8	O&M
MTA	Under Floor Duct Pipe (Transite)				X				X			8	O&M

ASBESTOS MANAGEMENT PLAN REPORT

CDB PROJECT NUMBER - 910-010-010

HOWE MENTAL HEALTH CENTER
DEPARTMENT OF MENTAL HEALTH AND
DEVELOPMENTAL DISABILITIES
NEIGHBORHOOD HOUSE 500
C.D.B. BUILDING #B4500
7600 WEST 183RD STREET
TINLEY PARK, IL 60477

STATE OF ILLINOIS

CAPITAL DEVELOPMENT BOARD

SPRINGFIELD, ILLINOIS

BY:
FOX & FOX ARCHITECTS & ENGINEERS
330 SOUTH WELLS STREET
CHICAGO, IL 60606
(312) 427-5592

DATE: OCT. 10, 1994

DATE SIGNED: 10/26/94

EXP. DATE: 11/30/96

IDPH LICENSE: 100-0471

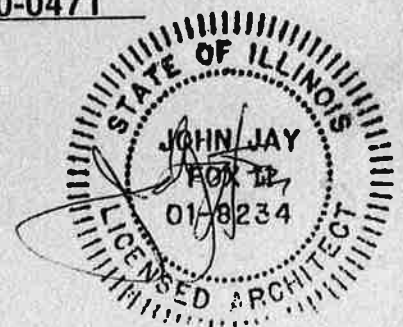
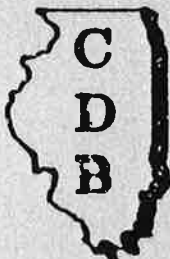


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- IX. MMC - Exhaust Back Draft Damper Insulation
- X. MTA - Transite Floor Duct
- XI. SFA - Fire Proofing Insulation
- XII. SPA - Veneer Plastic Ceiling and Walls
- XIII. SPB - Plaster Seal Coat
- XIV. SPC - Veneer Plaster Walls and Ceiling (1988)
- XV. TDA - Vent Duct Insulation
- XVI. TJA - Cementitious Fittings on Fiberglass Pipe
- XVII. MCA - 1 x 1 Ceiling Tile
- XVIII. MMA - Seam Tape

- XIX. Cost Summary
- XX. Chain of Custody
- XXI. Licenses and Accreditations
- XXII. Operation and Maintenance Plan

CAPITAL DEVELOPMENT BOARD BUILDING INVENTORY FORM 3

C.D.B. BUILDING NUMBER: B4500 BUILDING NAME: Neighborhood House 500

USING AGENCY: 321 Dept. Of Mental Health/DD LOCATION: 070 Howe Development Center

BLDG. ADDRESS: 7600 West 183rd Street CITY: Tinley Park

ZIP: 60477 COUNTY: Cook HOUSE/SENATE DISTRICT: 037/19

YEAR CONSTRUCTED: 1974 GROSS SQ. FT.: 2400 TOTAL FLOORS: 1 FLOORS BELOW GRADE: 0

USE OF BUILDING WHEN CONSTRUCTED(C): Health Care CURRENT PRIMARY USE (P): Health Care CURRENT SECONDARY USE (S): N/A

PREDOMINATE CONSTRUCTION TYPE: Brick

FOR USING AGENCY USE ONLY: _____

BUILDING NOTES: _____

(FOR C.D.B. USE ONLY) ASBESTOS STATUS: _____

FORM 4

INTRODUCTION TO THE MANAGEMENT PLAN

A. Policy Statement

This Management Plan is intended to be a working document which will serve as a guide to staff, employees, occupants and visitors in minimizing the risk of exposure to asbestos fibers. The State of Illinois recognizes the serious health hazards associated with asbestos fibers. The State has conducted an inspection of this facility in order to determine whether asbestos is present, and if so, where the asbestos is located.

This Management Plan sets forth the recommended response actions for the ACM (asbestos containing material) within this facility. Further, where required, an Operations & Maintenance (O & M) Program has been established which will be implemented by facility staff.

This Plan has been reviewed by CDB, the Contracting Agency and the Using Agency and represents the policies and procedures to be implemented with respect to any ACM within this facility.


Dated: _____

Capital Development Board Representative

Dated: _____

Agency (Designated Person)

Dated: 10/26/94



Management Planner

The data linking asbestos exposure to mesothelioma is based upon many of the same epidemiological studies of workers that demonstrated an association between asbestos exposure and lung cancer. The findings are somewhat different than for lung cancer. Lower non-occupational exposures have also been associated with mesothelioma in addition to occupational exposure. Therefore, lower levels of exposure to asbestos as found in some non-occupational settings may give rise to mesothelioma. Secondly, the nature of the dose response relationship may be different from that of lung cancer. The risk continues to increase as the number of years since first exposure increases. In many cases, a latent period of more than 40 years has been described.

Gastrointestinal Cancer - Several of the epidemiological studies of workers occupationally exposed to asbestos have shown increased risks of gastrointestinal cancer including cancers of the colon, rectum, stomach and esophagus. The risk, however, does not appear to be as great as for lung cancer. To date, no association has been found between asbestos in drinking water and gastrointestinal cancer.

Asbestos Related Pleural Disease - This category of health effects includes fibrous and sometimes calcified plaques as well as diffuse thickening of the pleura and the pleural effusion. These are non-cancerous changes of the membranes surrounding the lungs and commonly occur many years after asbestos exposure. The presence of plaques suggests prior asbestos exposure but usually does not cause any symptoms or respiratory impairment.

Asbestosis - Asbestosis is a disabling lung disorder consisting of generalized scarring of the lungs which causes shortness of breath on exertion. Asbestosis has been described almost exclusively in workers with occupational exposure to high concentrations of asbestos-containing dusts. In asbestosis, there appears to be a very strong dose response relationship in that the greater the concentration of asbestos fibers, and the longer the duration of exposure, the greater the likelihood and severity of asbestosis.

As with the other asbestos related health effects, there is usually a time lag or latent period of several years before the development of disease. Once acquired, asbestosis tends to progress slowly, sometimes for years after asbestos exposure has ended.

CDB BUILDING B4500

BUILDING NAME : Neighborhood House No. 5

The neighborhood house was constructed in 1974; it is part of a residential unit complex for the patients at the Howe Mental Health Center. The exterior brick wall system was replaced in 1988 due to structural failure. The major remodeling work required replacement of interior plaster ceilings and walls.

The building is single story and has a square footage of 2,400 square feet. There are no attics, crawlspace or basements.

The building is used for health care administration purposes for the Howe Mental Health Facility.

The exterior surfacing material is brick veneer with interior gypsum board and veneer plaster. Steel columns and beams support bar joists and metal roof deck.

The roof is flat except for a sloped section. The roofs were replaced in 1990. The flat roof is constructed of a single ply roofing system on insulation. The pitched roof is steel construction.

The building is heated and cooled by a forced air system. Under floor and overhead ducts supply air to all the rooms in the house. An overhead return air system brings air back to the mechanical room. The HVAC system appears in good working order. A hot water heater in the mechanical room supplies hot water to the building. The furnaces and hot water energy source is gas.

To the best of our knowledge there has not been any asbestos abatement in this building.

No asbestos was detected in any of the material sampled. Areas assumed to contain asbestos were not sampled and no determination of their content can be made. Any asbestos in this building would cause relatively little hazard.

SUMMARY OF FINDINGS

INSPECTION PHASE I

CDB BUILDING NO./PROJECT NO.:

**B4500
910-010-010**

USER AGENCY:

Department of Mental Health/DD

USER LOCATION:

**(070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477 - Cook
County**

BUILDING NAME:

Neighborhood House - 500

INSPECTORS:

**Vahooman Mirkhaef (I-057)
Jay Fox (I-0471)**

HOMOGENEOUS AREA	DESCRIPTION	QUANTITY	NUMBER SAMPLES RECOMMENDED	REMOVAL COST ESTIMATE
SFA	Fire Proofing on Beams	268	3	
SPA	Veneer Plaster Ceiling and Walls	11000	7	\$143,000
SPB	Plaster Seal Coat	60	3	
SPC	Veneer Plaster Walls and Ceilings (1988)	2400	5	
TDA	Insulation on Vent Duct	150	3	
TJA	Mag Block Pipe Fitting	30	3	

INSPECTION PHASE I

CDB BUILDING NO./PROJECT NO.:

**B4500
910-010-010**

USER AGENCY:

Department of Mental Health/DD

USER LOCATION:

**(070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477 - Cook
County**

BUILDING NAME:

Neighborhood House - 500

INSPECTORS:

**Vahooman Mirkhaef (I-057)
Jay Fox (I-0471)**

HOMOGENEOUS AREA	DESCRIPTION	QUANTITY	NUMBER SAMPLES RECOMMENDED	REMOVAL COST ESTIMATE
MCA	1 X 1 Ceiling Tile	750	3	
MFA	1 X 1 Floor Tile and Mastic	1900	Assumed ACM	
MMA	Tape on Plaster Wall	30	3	
MMB	Fire Damper Insulation	15	Assumed ACM	
MMC	Exhaust Backdraft Damper Insulation	15	Assumed ACM	
MTA	Under Floor Duct Pipe Transite	300	Assumed ACM	

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.:

**B4500
901-010-010**

USER AGENCY:

Department of Mental Health

USER LOCATION:

**(070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477**

BUILDING NAME:

Neighborhood House No.: 5

INSPECTORS:

**Vahooman Mirkhaef
Jay Fox
David Sloman**

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
MFA	1 X 1 Floor Tile and Mastic	X			
MMB	Insulation on Fire Damper	X			
MMC	Exhaust Back Draft Damper Insulation	X			
MTA	Transite Floor Duct	X			
SFA	Fire Proofing Insulation			5	
SPA	Veneer Plaster Ceiling and Walls			7	

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.:

**B4500
901-010-010**

USER AGENCY:

Department of Mental Health

USER LOCATION:

**(070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477**

BUILDING NAME:

Neighborhood House No.: 5

INSPECTORS:

**Vahooman Mirkhaef
Jay Fox
David Sloman**

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
SPB	Plaster Seal Coat			1	
SPC	Veneer Plaster Walls and Ceiling (1988)			7	
TDA	Vent Duct Insulation			3	
TJA	Cementitious Fittings on Fiberglass Pipe			3	
MCA	1 X 1 Ceiling Tile			3	
MMA	Seam Tape			3	

FORM 6 - SUMMARY OF FINDINGS

MANAGEMENT PLAN PHASE III

BUILDING NAME Neighborhood House 500

LIST IN ORDER OF RESPONSE ACTION NUMBER

C.D.B. BUILDING NUMBER B4500

HOMOGENEOUS AREA	MATERIAL DESCRIPTION	ACM CONTENT (%)			DAMAGE ASSESSMENT							RESPONSE ACTION	DESCRIPTION (I.E. REMOVE, REPAIR, ENCLOSE, ENCAPSULATE, OR O&M)			
		CHRYSOTILE	AMOSITE	OTHER	ASSUMED ACM	NO DAMAGE	SALIENT DAMAGE	SIGNIFICANT DAMAGE	NO POTENTIAL DAMAGE	POTENTIAL SIGNIFICANT DAMAGE	POTENTIAL SIGNIFICANT DAMAGE			NUMBER		
MFA	1 x 1 Floor tile and Mastic				X										8	O&M
MMB	Insulation on Fire Damper				X										8	O&M
MMC	Exhaust Back-Draft Damper Insulation				X										8	O&M
MTA	Under Floor Duct Pipe (Transite)				X										8	O&M

ASBESTOS MANAGEMENT PLAN REPORT

CDB PROJECT NUMBER - 321-185-709

HOWE MENTAL HEALTH CENTER
DEPARTMENT OF MENTAL HEALTH AND
DEVELOPMENTAL DISABILITIES
PINE HALL
C.D.B. BUILDING #B4031
7600 WEST 183RD STREET
TINLEY PARK, IL 60477

STATE OF ILLINOIS

CAPITAL DEVELOPMENT BOARD

SPRINGFIELD, ILLINOIS

BY:
FOX & FOX ARCHITECTS & ENGINEERS
330 SOUTH WELLS STREET
CHICAGO, IL 60606
(312) 427-5592

DATE: OCT. 21, 1992

DATE SIGNED: 1/31/97

EXP. DATE: 11/30/97

IDPH LICENSE: 100-0471

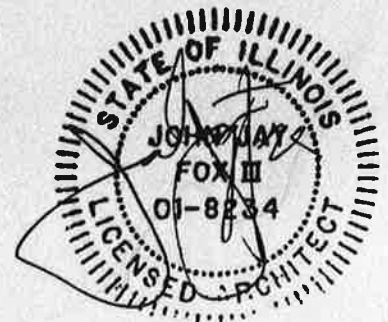
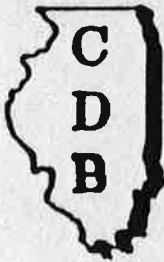


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- IX. TJB - Cementitious Fitting on Air Cell/FG Pipe
- X. TPA - Pipe Insulation Cementitious
- XI. TPB - Pipe Insulation Air Cell
- XII. TTA - Flash Tank Insulation Cementitious
- XIII. MFA - Linoleum and Mastic
- XIV. MFB - 9" x 9" Floor Tile and Mastic
- XV. MMA - Fire Door
- XVI. SPA - Plaster Walls and Ceiling
- XVII. TMA - Insulation on Muffler Cementitious
- XVIII. MCA - 2 x 4 Ceiling Tile
- XIX. MCB - 2 x 2 Ceiling Tile

- XX. Cost Summary
- XXI. Chain of Custody
- XXII. Licenses and Accreditations
- XXIII. Operation and Maintenance Plan

CAPITAL DEVELOPMENT BOARD BUILDING INVENTORY FORM 3

C.D.B. BUILDING NUMBER: B4031 BUILDING NAME: PINE HALL

USING AGENCY: 321 DEPT. OF MENTAL HEALTH/DD LOCATION: 070 HOME DEVELOPMENTAL CENTER

BLDG. ADDRESS: 7600 W. 183RD STREET CITY: TINLEY PARK

ZIP: 60477 COUNTY: COOK HOUSE/SENATE DISTRICT: 057/19

YEAR CONSTRUCTED: 1966 GROSS SQ. FT. 51,630 TOTAL FLOORS: 3 FLOORS BELOW GRADE: 1

USE OF BUILDING WHEN CONSTRUCTED(C): HEALTH CARE CURRENT PRIMARY USE (P): HEALTH CARE CURRENT SECONDARY USE (S): HEALTH CARE

PREDOMINATE CONSTRUCTION TYPE: BRICK AND MASONRY

FOR USING AGENCY USE ONLY: _____

BUILDING NOTES: _____

(FOR C.D.B. USE ONLY) ASBESTOS STATUS: _____

FORM 4

INTRODUCTION TO THE MANAGEMENT PLAN

A Policy Statement

This Management Plan is intended to be a working document which will serve as a guide to staff, employees, occupants and visitors in minimizing the risk of exposure to asbestos fibers. The State of Illinois recognizes the serious health hazards associated with asbestos fibers. The State has conducted an inspection of this facility in order to determine whether asbestos is present, and if so, where the asbestos is located.

This Management Plan sets forth the recommended response actions for the ACM (asbestos containing material) within this facility. Further, where required, an Operations & Maintenance (O & M) Program has been established which will be implemented by facility staff.

This Plan has been reviewed by CDB, the Contracting Agency and the Using Agency and represents the policies and procedures to be implemented with respect to any ACM within this facility.

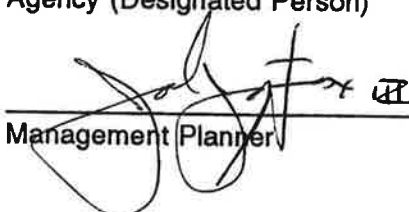
Dated: _____

Capital Development Board Representative

Dated: _____

Agency (Designated Person)

Dated: 1/31/97



Management Planner

The data linking asbestos exposure to mesothelioma is based upon many of the same epidemiological studies of workers that demonstrated an association between asbestos exposure and lung cancer. The findings are somewhat different than for lung cancer. Lower non-occupational exposures have also been associated with mesothelioma in addition to occupational exposure. Therefore, lower levels of exposure to asbestos as found in some non-occupational settings may give rise to mesothelioma. Secondly, the nature of the dose response relationship may be different from that of lung cancer. The risk continues to increase as the number of years since first exposure increases. In many cases, a latent period of more than 40 years has been described.

Gastrointestinal Cancer - Several of the epidemiological studies of workers occupationally exposed to asbestos have shown increased risks of gastrointestinal cancer including cancers of the colon, rectum, stomach and esophagus. The risk, however, does not appear to be as great as for lung cancer. To date, no association has been found between asbestos in drinking water and gastrointestinal cancer.

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Asbestosis - Asbestosis is a disabling lung disorder consisting of generalized scarring of the lungs which causes shortness of breath on exertion. Asbestosis has been described almost exclusively in workers with occupational exposure to high concentrations of asbestos-containing dusts. In asbestosis, there appears to be a very strong dose response relationship in that the greater the concentration of asbestos fibers, and the longer the duration of exposure, the greater the likelihood and severity of asbestosis.

As with the other asbestos related health effects, there is usually a time lag or latent period of several years before the development of disease. Once acquired, asbestosis tends to progress slowly, sometimes for years after asbestos exposure has ended.

NARRATIVE

Pine Hall was constructed in 1966. There has not been any major renovation to this building since its original construction. However, minor remodeling work has been completed over the years. A generator room was added to the basement floor in 1985.

The building has two floors above the grade and one floor below grade. There are no crawl spaces or attics in this building. However, there is a penthouse floor above the second floor elevator that houses mechanical equipment. An underground tunnel system supplies steam and domestic water to the building. The building consists of 51,630 gross square feet.

In general, the mechanical system in this building is in good shape.

Pine Hall is used for housing by the residences of Tinley Park Mental Health Facility.

The exterior facade of this building is brick. The flat roof was recently replaced and is constructed with a layer of asphalt waterproofing modified with Styrene-Butadiene-Styrene Rubber and reinforced with polyester fabric.

This building is heated by radiant heat, radiators and forced air fed by the existing tunnel system. Forced air provides the air conditioning.

In addition to asbestos pipe insulation, fiberglass pipe insulation is also utilized in this building.

To the best of our knowledge, there has not been any asbestos abatement in this building in the past few years.

Asbestos containing materials were found throughout this building, especially in the mechanical room. This material presents a hazard to building occupants if an operations and maintenance plan is not followed.

SUMMARY OF FINDINGS

INSPECTION PHASE 1.

CDB BUILDING NO./PROJECT NO.: B-4031 / 321-185-709

USER AGENCY: Department of Mental Health/DD

USER LOCATION: Tinley Park Mental Health Center
7400 West 183rd Street
Tinley Park, Illinois 60477 - Cook County

BUILDING NAME: Pine Hall

INSPECTORS: Vahooman Mirkhaef (I-057), Jay Fox (I-0471)

HOMOGENEOUS AREA	DESCRIPTION	QUANTITY	NUMBER SAMPLES MMENDED	REMOVAL COST ESTIMATE
SPA	Plaster Walls/ Ceiling	37000	7	\$ 481000
TPA	Pipe Insulation Cementatious	4000	3	\$ 206800
TJA	Fitting Insulation On Cementatious Pipe	400	3	\$ 141450
TPB	Pipe Insulation Air Cell	1200	1	\$ 62040
TJB	Fitting Insulation On Air-Cell/FG Pipe	600	3	\$ 132020
TTA	Flash Tank Insulation Cementatious	200	3	\$
TDA	Insulation On Ventilation Duct	700	1	\$
TMA	Insulation On Muffler Cementatious	500	3	\$

HOMOGENEOUS AREA	DESCRIPTION	QUANTITY	NUMBER SAMPLES MMENDED	REMOVAL COST ESTIMATE
MCA	2x4 Ceiling Tile	600	3	\$
MCB	2x2 Ceiling Tile	300	3	\$
MFA	LINOLEUM & Mastic	45000	3	\$ 360000
MFB	9'x9" FLOOR TILE & MASTIC	45000	3	\$ 360000
MMA	Fire Door	1 DOOR	ASSUMED ACM	\$

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.: B4031
321-185-709

USER AGENCY: Department of Mental Health

USER LOCATION: (070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477

BUILDING NAME: Pine Hall

INSPECTORS: Jay Fox (I-0471)
Vahooman Mirkhaef(I-057)
David Sloman (I-4883)

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
TDA	Insulation on Ventilation Duct		1		
TJA	Fitting Insulation on Cementitious Pipe		3		
TJB	Cementitious Fitting on Air Cell/FG Pipe		3		
TPA	Pipe Insulation Cementitious		3		
TPB	Pipe Insulation Air Cell		1		
TTA	Flash Tank Insulation Cementitious		3		

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.: B4031
321-185-709

USER AGENCY: Department of Mental Health

USER LOCATION: (070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477

BUILDING NAME: Pine Hall

INSPECTORS: Jay Fox (I-0471)
Vahooman Mirkhaef (I-057)
David Sloman (I-4883)

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
MFA	LINOLEUM and Mastic		1	2	MFA-1 has < 1% Chrys
MFB	9" X 9" Floor Tile and Mastic		3		MFB-1 & 3 Have < 1% Chrysotile
MMA	Fire Door	X			
SPA	Plaster Walls and Ceiling			7	SPA-4 has < 1% Chrys Point Counted
TMA	Insulation on Muffler Cementitious			3	
MCA	2 X 4 Ceiling Tile Cementitious			3	

FORM 6 SUMMARY OF FINDINGS

MANAGEMENT PLAN PHASE III

BUILDING NAME Pine Hall

LIST IN ORDER OF RESPONSE ACTION NUMBER

C.D.B. BUILDING NUMBER B4031

HOMOGENEOUS AREA	MATERIAL DESCRIPTION	ACM CONTENT (%)			DAMAGE ASSESSMENT							RESPONSE ACTION	
		CHRYSOTILE	AMOSITE	OTHER	ASSUMED ACM	NO DAMAGE	SALIENT DAMAGE	SIGNIFICANT DAMAGE	NO POTENTIAL DAMAGE	POTENTIAL DAMAGE	POTENTIAL SIGNIFICANT DAMAGE		NUMBER
TDA	Insulation @ Ducts	5-10%	1-2%									7	O&M
TJA	Cem. Fit. @ Cem. Pipe Ins.		5%									7	O&M
TJB	Cem. Fit. @ Air Cell & Fiberglass Insulation											7	O&M
TPA	Cem. Pipe Insulation	1-5%										7	O&M
TPB	Air Cell Insulation	15%										7	O&M
TTA	Flash Tank Insulation	10%										7	O&M
MFA	Vinyl Floor (Linoleum) and Mastic	10-40%										8	O&M
MFB	9"x9" Floor Tile & Mastic	Trace			x							8	O&M
MMA	Metal Fire Door	Trace-1%			x							8	O&M
					x							8	O&M

FOX AND FOX

ARCHITECTS AND ENGINEERS
330 SOUTH WELLS STREET

• CHICAGO IL 60606
AREA CODE 312/427-5592

February 7, 1991

Mr. Sandy Glazer
State of Illinois
Capital Development Board
100 W. Randolph St.
Suite 14-1600
Chicago, IL 60601

Re: Asbestos Building Survey at Pine Hall, Tinley Park Mental Health Facility.

Dear Sandy,

We conducted the inspection phase for Pine Hall (CDB building #B4031) on January 28, 1991, with yourself and Gene Williams, Facility Manager at Tinley Park Mental Health Facility.

We would like to bring to your immediate attention, the following areas that have created a major fiber release episode.

Basement Mechanical Room

- * Steam line leading to booster, south wall, approximately 6 feet.
- * Condensation pipe leading to adsorber tank north of adsorber tank, 25 feet.
- * Condensation pipe, east wall, approximately 12 feet.
- * Condensation pipe, north wall, approximately 6 feet.
- * Steam supply valve, south wall, approximately 4 feet.

Pipe Tunnel

- * Steam pipe insulation, approximately 10 feet.

First Floor

- * Steam pipe insulation in dish washing room, approximately 15 feet.

FOX AND FOX

15 feet.
* Pipe insulation on east and west wall, approximately 50 feet.

Due to the renovation of the building and proposed removal of the vinyl asbestos tile, we are requesting a variance to take separate bulk samples of the vinyl asbestos tile and the adhesive.

Please call me if you have any questions in regard to this matter.

Sincerely,

FOX AND FOX



John Jay Fox III
cc: Yohoomen Mirkheaf
It

ASBESTOS MANAGEMENT PLAN REPORT

CDB PROJECT NUMBER - 321-185-708

HOWE MENTAL HEALTH CENTER
DEPARTMENT OF MENTAL HEALTH AND
DEVELOPMENTAL DISABILITIES
WILLOW HALL

C.D.B. BUILDING #BB019
7600 WEST 183RD STREET
TINLEY PARK, IL 60477

STATE OF ILLINOIS

CAPITAL DEVELOPMENT BOARD

SPRINGFIELD, ILLINOIS

BY:
FOX & FOX ARCHITECTS & ENGINEERS
330 SOUTH WELLS STREET
CHICAGO, IL 60606
(312) 427-5592

DATE: OCT. 21, 1992

DATE SIGNED: 1/31/97

EXP. DATE: 11/30/97

IDPH LICENSE: 100-0471

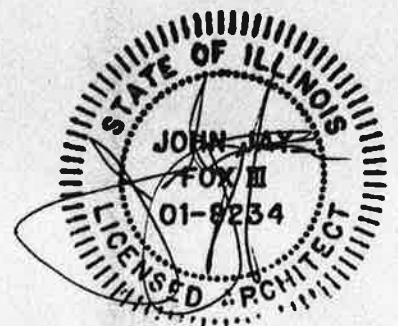
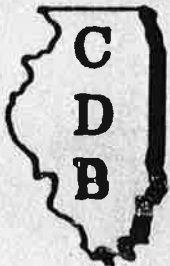


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CDB BUILDING NO.: BB019
Willow Hall

- I. Building Inventory
- II. Introduction
- III. Narrative Building Description
- IV. Summary of Findings
- V. Site Plan
- VI. Floor Plans
- VII. SPD - Sprayed on Speckled Plaster Ceiling
- VIII. TDA - Insulation on Ventilation Duct
- IX. TFA - Flue Insulation Mag Block
- X. TJA - Cementitious Pipe Insulation Fittings
- XI. TJB - Cementitious Fittings on Fiberglass or Air Cell Pipe
- XII. TPA - Cementitious Pipe Insulation
- XIII. TPB - Pipe Insulation Air Cell
- XIV. MSA - Stockpiled Insulation Mag Block
- XV. SPA - Plaster Wall and Ceiling
- XVI. SPB - Plaster Ceiling Brown-Coat
- XVII. SPC - Sprayed on Plaster Ceiling

- XVIII. Cost Summary
- XIX. Chain of Custody
- XX. Licenses and Accreditations
- XXI. Operation and Maintenance Plan

FORM 4

INTRODUCTION TO THE MANAGEMENT PLAN -

A. Policy Statement

This Management Plan is intended to be a working document which will serve as a guide to staff, employees, occupants and visitors in minimizing the risk of exposure to asbestos fibers. The State of Illinois recognizes the serious health hazards associated with asbestos fibers. The State has conducted an inspection of this facility in order to determine whether asbestos is present, and if so, where the asbestos is located.

This Management Plan sets forth the recommended response actions for the ACM (asbestos containing material) within this facility. Further, where required, an Operations & Maintenance (O & M) Program has been established which will be implemented by facility staff.

This Plan has been reviewed by CDB, the Contracting Agency and the Using Agency and represents the policies and procedures to be implemented with respect to any ACM within this facility.

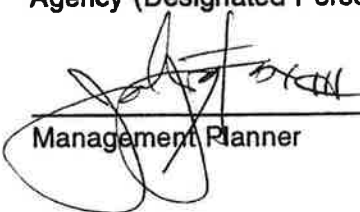
Dated: _____

Capital Development Board Representative

Dated: _____

Agency (Designated Person)

Dated: 1/31/97



Management Planner

The data linking asbestos exposure to mesothelioma is based upon many of the same epidemiological studies of workers that demonstrated an association between asbestos exposure and lung cancer. The findings are somewhat different than for lung cancer. Lower non-occupational exposures have also been associated with mesothelioma in addition to occupational exposure. Therefore, lower levels of exposure to asbestos as found in some non-occupational settings may give rise to mesothelioma. Secondly, the nature of the dose response relationship may be different from that of lung cancer. The risk continues to increase as the number of years since first exposure increases. In many cases, a latent period of more than 40 years has been described.

Gastrointestinal Cancer - Several of the epidemiological studies of workers occupationally exposed to asbestos have shown increased risks of gastrointestinal cancer including cancers of the colon, rectum, stomach and esophagus. The risk, however, does not appear to be as great as for lung cancer. To date, no association has been found between asbestos in drinking water and gastrointestinal cancer.

Asbestos Related Pleural Disease - This category of health effects includes fibrous and sometimes calcified plaques as well as diffuse thickening of the pleura and the pleural effusion. These are non-cancerous changes of the membranes surrounding the lungs and commonly occur many years after asbestos exposure. The presence of plaques suggests prior asbestos exposure but usually does not cause any symptoms or respiratory impairment.

Asbestosis - Asbestosis is a disabling lung disorder consisting of generalized scarring of the lungs which causes shortness of breath on exertion. Asbestosis has been described almost exclusively in workers with occupational exposure to high concentrations of asbestos-containing dusts. In asbestosis, there appears to be a very strong dose response relationship in that the greater the concentration of asbestos fibers, and the longer the duration of exposure, the greater the likelihood and severity of asbestosis.

As with the other asbestos related health effects, there is usually a time lag or latent period of several years before the development of disease. Once acquired, asbestosis tends to progress slowly, sometimes for years after asbestos exposure has ended.

C.D.B. BUILDING NO.: BB019

BUILDING NAME: WILLOW HALL, BUILDING NO. 19

Willow Hall was constructed in 1954. There have not been any major additions to the building since its original construction. Minor remodeling work has been completed over the years.

The building has one floor above grade and one floor below grade. There are crawl spaces in the basement. The building has no attic space. An underground tunnel system supplies steam and domestic water to the building.

Willow Hall is used for housing the residents of Tinley Park Mental Health Facility.

The exterior facade of the building is brick. The roof was replaced several years ago and is a single ply rubber roof with insulation.

This building is heated by radiant heat and forced air. Forced air provides the air conditioning.

To the best of our knowledge, there has not been any asbestos abatement in this building in the past few years.

Asbestos containing materials were found throughout this building, especially in the mechanical room. This material presents a hazard to building occupants if an operations and maintenance plan is not followed.

SUMMARY OF FINDINGS

INSPECTION PHASE 1.

CDB BUILDING NO./PROJECT NO.: BB019 / 321-185-709

USER AGENCY: Department of Mental Health/DD

USER LOCATION: Tinley Park Mental Health Center
7400 West 183rd Street
Tinley Park, Illinois 60477 - Cook County

BUILDING NAME: Willow Hall

INSPECTORS: Vahooman Mirkhaef (I-057), Jay Fox (I-0471)

HOMOGENEOUS AREA	DESCRIPTION	QUANTITY	NUMBER SAMPLES MMENDED	REMOVAL COST ESTIMATE
SPA	Plaster Walls and Ceiling	30000	7	\$ 390000
SPB	Plaster Ceiling Brown-coat	100	3	\$ 4500
SPC	Sprayed-on Plaster Ceiling	1000	3	\$ 8500
SPD	Sprayed-on Speckled Plaster Ceiling	30000	7	\$ 390000
TDA	Insulation on Vent. Duct	10000	3	\$ 112000
TPA	Pipe Insulation Mag Block	6000	3	\$ 517000
TJA	Pipe Insulation Fittings	350	3	\$ 33005
TPB	Pipe Insulation Air Cell	5000	3	\$ 246400

HOMOGENEOUS AREA	DESCRIPTION	QUANTITY	NUMBER SAMPLES MMENDED	REMOVAL COST ESTIMATE
TJB	Pipe Insulation Fittings	250	3	\$
TFA	Flue Insulation Mag Block	300	3	\$
TSA	Stockpiled Insulation Mag Block	115	3	\$

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.: BB019
321-185-708

USER AGENCY: Department of Mental Health

USER LOCATION: (070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477

BUILDING NAME: Willow Hall

INSPECTORS: Jay Fox (I-0471)
Vahooman Mirkhaef(I-057)
David Sloman (I-4883)

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
SPD	Sprayed on Speckled Plaster Ceiling		1	6	SPD-1,2,3,4, 5,6 < 1% SPD-7 - 1% Point Count.
TDA	Insulation on Ventilation Duct		1		
TFA	Flue Insulation Mag Block		3		
TJA	Cementitious Pipe Insulation Fittings		3		
TJB	Cementitious Fittings on Fiberglass or Air Cell Pipe		3		
TPA	Cementitious Pipe Insulation		3		

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.:

**BB019
321-185-708**

USER AGENCY:

Department of Mental Health

USER LOCATION:

**(070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477**

BUILDING NAME:

Willow Hall

INSPECTORS:

**Jay Fox (I-0471)
Vahooman Mirkhaef(I-057)
David Sloman (I-4883)**

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
TPB	Pipe Insulation Air Cell		1		
MSA	Stockpiled Insulation Mag Block		3		
SPA	Plaster Walls and Ceiling			7	
SPB	Plaster Ceiling Brown Coat			3	
SPC	Sprayed on Plaster Ceiling			3	

FORM 6 SUMMARY OF FINDINGS

MANAGEMENT PLAN PHASE III

BUILDING NAME Willow Hall

LIST IN ORDER OF RESPONSE ACTION NUMBER

C.D.B. BUILDING NUMBER BB019

HOMOGENEOUS AREA	MATERIAL DESCRIPTION	ACM CONTENT (%)			ASSUMED ACM	DAMAGE ASSESSMENT							RESPONSE ACTION		
		CHRYSOTILE	AMOSITE	OTHER		NO DAMAGE	SALENT DAMAGE	SIGNIFICANT DAMAGE	NO POTENTIAL DAMAGE	POTENTIAL DAMAGE	POTENTIAL SIGNIFICANT DAMAGE	NUMBER		DESCRIPTION (I.E. REMOVE, REPAIR, ENCLOSE, ENCAPSULATE, OR O&M)	
TDA	Cementitious Ins. at Ducts	25%												2	O&M
TFJA	Cem. Ins. at Flue	25%												7	O&M
TJJA	Cem. Fit. at Cem. Pipe Ins.	15%	15%											7	O&M
TJJB	Cem. Fit. at Air Cell	25%												7	O&M
TPJA	Cementitious Pipe Ins.	25%	25%											7	O&M
TPJB	Air Cell Insulation	35%												7	O&M
MSA	Stockpiled Cem. Insulation	30%	10%											N/A	Remove immediately
SPD	Speckled Plaster Ceiling	1%												8	O&M

ASBESTOS MANAGEMENT PLAN REPORT

CDB PROJECT NUMBER - 910-010-010

HOWE MENTAL HEALTH CENTER
DEPARTMENT OF MENTAL HEALTH AND
DEVELOPMENTAL DISABILITIES
PUMP HOUSE #1
C.D.B. BUILDING #BB001
7600 WEST 183RD STREET
TINLEY PARK, IL 60477

STATE OF ILLINOIS

CAPITAL DEVELOPMENT BOARD

SPRINGFIELD, ILLINOIS

BY:
FOX & FOX ARCHITECTS & ENGINEERS
330 SOUTH WELLS STREET
CHICAGO, IL 60606
(312) 427-5592

DATE: OCT. 10, 1994

DATE SIGNED: 10/26/94

EXP. DATE: 11/30/96

IDPH LICENSE: 100-0471

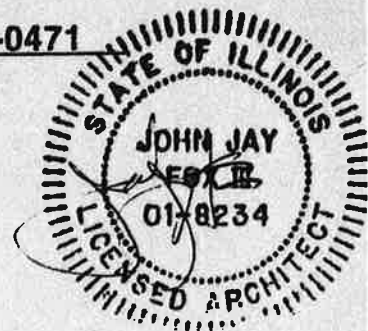


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Pump House No. 1

- I. Building Inventory
- II. Introduction
- III. Narrative Building Description
- IV. Summary of Findings
- V. Site Plan
- VI. Floor Plans
- VII. TJA - Cementitious Fittings on Cementitious Insulation
- VIII. TJB - Cementitious Fittings on Air Cell Pipe
- IX. TPA - Cementitious Pipe Insulation
- X. TPB - Air Cell Pipe Insulation
- XI. TPC - Cementitious Insulation on Electrical Conduit
- XII. MMA - Built-Up Roof and Flashings

- XIII. Cost Summary
- XIV. Chain of Custody
- XV. Licenses and Accreditations
- XVI. Operation and Maintenance Plan

CAPITAL DEVELOPMENT BOARD BUILDING INVENTORY FORM 3

C.D.B. BUILDING NUMBER: BB001 BUILDING NAME: Pump House

USING AGENCY: 321 Dept of Mental Health/DD LOCATION: 070 Howe DEVLPMTL CTR (SEE 185)

BLDG. ADDRESS: 7600 West 183rd Street CITY: Tinley Park
ZIP: 60477 COUNTY: Cook HOUSE/SENATE DISTRICT: 037/19

YEAR CONSTRUCTED: 1957 GROSS SQ. FT. 685 TOTAL FLOORS: 1 FLOORS BELOW GRADE: -----

USE OF BUILDING WHEN CONSTRUCTED(C): Industrial CURRENT PRIMARY USE (P): Industrial CURRENT SECONDARY USE (S): -----

PREDOMINATE CONSTRUCTION TYPE: Brick

FOR USING AGENCY USE ONLY: _____

BUILDING NOTES: _____

(FOR C.D.B. USE ONLY)
ASBESTOS STATUS: _____

FORM 4

INTRODUCTION TO THE MANAGEMENT PLAN

A. Policy Statement

This Management Plan is intended to be a working document which will serve as a guide to staff, employees, occupants and visitors in minimizing the risk of exposure to asbestos fibers. The State of Illinois recognizes the serious health hazards associated with asbestos fibers. The State has conducted an inspection of this facility in order to determine whether asbestos is present, and if so, where the asbestos is located.

This Management Plan sets forth the recommended response actions for the ACM (asbestos containing material) within this facility. Further, where required, an Operations & Maintenance (O & M) Program has been established which will be implemented by facility staff.

This Plan has been reviewed by CDB, the Contracting Agency and the Using Agency and represents the policies and procedures to be implemented with respect to any ACM within this facility.

Dated: _____

Capital Development Board Representative

Dated: _____

Agency (Designated Person)

Dated: 10/26/94



Management Planner

The data linking asbestos exposure to mesothelioma is based upon many of the same epidemiological studies of workers that demonstrated an association between asbestos exposure and lung cancer. The findings are somewhat different than for lung cancer. Lower non-occupational exposures have also been associated with mesothelioma in addition to occupational exposure. Therefore, lower levels of exposure to asbestos as found in some non-occupational settings may give rise to mesothelioma. Secondly, the nature of the dose response relationship may be different from that of lung cancer. The risk continues to increase as the number of years since first exposure increases. In many cases, a latent period of more than 40 years has been described.

Gastrointestinal Cancer - Several of the epidemiological studies of workers occupationally exposed to asbestos have shown increased risks of gastrointestinal cancer including cancers of the colon, rectum, stomach and esophagus. The risk, however, does not appear to be as great as for lung cancer. To date, no association has been found between asbestos in drinking water and gastrointestinal cancer.

Asbestos Related Pleural Disease - This category of health effects includes fibrous and sometimes calcified plaques as well as diffuse thickening of the pleura and the pleural effusion. These are non-cancerous changes of the membranes surrounding the lungs and commonly occur many years after asbestos exposure. The presence of plaques suggests prior asbestos exposure but usually does not cause any symptoms or respiratory impairment.

Asbestosis - Asbestosis is a disabling lung disorder consisting of generalized scarring of the lungs which causes shortness of breath on exertion. Asbestosis has been described almost exclusively in workers with occupational exposure to high concentrations of asbestos-containing dusts. In asbestosis, there appears to be a very strong dose response relationship in that the greater the concentration of asbestos fibers, and the longer the duration of exposure, the greater the likelihood and severity of asbestosis.

As with the other asbestos related health effects, there is usually a time lag or latent period of several years before the development of disease. Once acquired, asbestosis tends to progress slowly, sometimes for years after asbestos exposure has ended.

C.D.B. BUILDING NO.: BB001

BUILDING NAME: PUMP HOUSE, BUILDING NO. 1

Pump House #1 was constructed in 1957. It appears that no renovation work has been done to the building.

The building has one floor, first floor. The building has 685 square feet. The square footage differs from the information provided on Form 3.

The building is used as a well pump house and gas meter house for the Howe Mental Health Center.

The exterior of the building is constructed of face-brick with concrete back-up.

The existing roof is a built-up roof with flashing and appears to need maintenance work.

To the best of our knowledge, no asbestos abatement work has been performed in the building.

Asbestos Containing Materials were found in this building. Friable asbestos poses a health hazard when it becomes airborne. Some materials were assumed to contain asbestos and were not sampled; no judgement regarding their relative risk to health can be made at this time.

In addition to asbestos containing insulation, this building contained other insulating materials such as fiberglass, cellulose, etc.

SUMMARY OF FINDINGS

INSPECTION PHASE I

FACILITY NAME: Howe Mental Health Center
CDB BUILDING NAME & NUMBER: Pump House No. 1
CDB PROJECT NUMBER: CDB Building No.: BB001
 910-010-010

HOMOGENEOUS AREA	DESCRIPTION	QUANTITY	NUMBER SAMPLES RECOMMENDED	REMOVAL COST ESTIMATE
TJA	Cementitious Fittings on Cementitious Insul.	16	3	
TJB	Cementitious Fittings on Air Cell Pipe	8	1	
TPA	Cementitious Pipe Insulation	40	3	
TPB	Air Cell Pipe Insulation	20	3	
TPC	Cementitious Pipe Wrap	5	3	
MMA	Built-up Roof and Flashings	687	Assume	

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.:

**BB001
901-010-010**

USER AGENCY:

Department of Mental Health

USER LOCATION:

**(070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477**

BUILDING NAME:

Pump House No. 1

INSPECTORS:

**Vahooman Mirkhaef
Jay Fox
David Sloman**

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
TJA	Cementitious Fittings on Cementitious Insulation		3		
TJB	Cementitious Fittings On Air Cell Pipe		3		
TPA	Cementitious Pipe Insulation		3		
TPB	Air Cell Pipe Insulation		1		
TPC	Cementitious Insulation on Electrical Conduit		3		
MMA	Built-up Roof and Flashings	X			

FORM 6 SUMMARY OF FINDINGS

MANAGEMENT PLAN PHASE III

BUILDING NAME

Pump House #1

LIST IN ORDER OF RESPONSE ACTION NUMBER

C.D.B. BUILDING NUMBER

BB001

HOMOGENEOUS AREA	MATERIAL DESCRIPTION	ACM CONTENT (%)			NO DAMAGE	SALIENT DAMAGE	SIGNIFICANT DAMAGE	NO POTENTIAL DAMAGE	POTENTIAL DAMAGE	POTENTIAL SIGNIFICANT DAMAGE	DAMAGE ASSESSMENT	
		CHRYSOLE	AMOSITE	OTHER							ASSUMED ACM	NUMBER
TJA	Cementitious Fittings at Cementitious Insulation	25%							X		5	O&M
TJB	Cementitious Fittings at Air Cell Insulation	25%							X		5	O&M
TPA	Cementitious Pipe Insulation	10%	20%						X		5	O&M
TPB	Air Cell Pipe Insulation	5%							X		5	O&M
TPC	Cementitious Insulation Pipe Wrap	25%						X			8	O&M
MMA	Built-Up Roof and Flashing							X			8	O&M

ASBESTOS MANAGEMENT PLAN REPORT

CDB PROJECT NUMBER - 910-010-010

HOWE MENTAL HEALTH CENTER
DEPARTMENT OF MENTAL HEALTH AND
DEVELOPMENTAL DISABILITIES
PERSONNEL BUILDING #2
C.D.B. BUILDING #B4002
7600 WEST 183RD STREET
TINLEY PARK, IL 60477

STATE OF ILLINOIS

CAPITAL DEVELOPMENT BOARD

SPRINGFIELD, ILLINOIS

BY:
FOX & FOX ARCHITECTS & ENGINEERS
330 SOUTH WELLS STREET
CHICAGO, IL 60606
(312) 427-5592

DATE: OCT. 10, 1994

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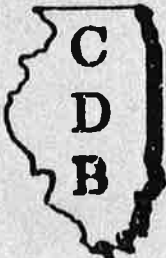


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CDB BUILDING NO.: B4002
Personnel Building #2

- I. Building Inventory
- II. Introduction
- III. Narrative Building Description
- IV. Summary of Findings
- V. Site Plan
- VI. Floor Plans
- VII. MFA - 1 x 1 Floor Tile and Mastic
- VIII. MMB - Fire Damper Insulation
- IX. MMC - Exhaust Back Draft Damper
- X. MMD - Built-Up Roof
- XI. MTA - Under Floor Duct Pipe and Transite
- XII. SFA - Fire Proofing on Beams
- XIII. SPA - Veneer Plaster Ceiling and Walls
- XIV. SPB - Veneer Plaster Walls and Ceiling (1982)
- XV. TDA - Insulation on Vent Duct
- XVI. TJA - Cementitious Pipe Fittings
- XVII. MCA - 1 x 1 Ceiling Tile
- XVIII. MMA - Canvas Vibration Damper

- XIX. Cost Summary
- XX. Chain of Custody
- XXI. Licenses and Accreditations
- XXII. Operation and Maintenance Plan

CAPITAL DEVELOPMENT BOARD BUILDING INVENTORY FORM 3

C.D.B. BUILDING NUMBER: B4002 BUILDING NAME: Personnel

USING AGENCY: 321 DEPT OF MENTAL HEALTH/DD LOCATION: 070 HOWE DEVL PMTL CTR (SEE 185)

BLDG. ADDRESS: 7600 WEST 183RD STREET CITY: TINLEY PARK

ZIP: 60477 COUNTY: COOK HOUSE/SENATE DISTRICT: 037/19

YEAR CONSTRUCTED: 1974 GROSS SQ. FT.: 4,400 TOTAL FLOORS: 1 FLOORS BELOW GRADE: -----

USE OF BUILDING WHEN CONSTRUCTED(C): BUSINESS CURRENT PRIMARY USE (P): BUSINESS CURRENT SECONDARY USE (S): -----

PREDOMINATE CONSTRUCTION TYPE: BRICK

FOR USING AGENCY USE ONLY: _____

BUILDING NOTES: _____

(FOR C.D.B. USE ONLY) ASBESTOS STATUS: _____

FORM 4

INTRODUCTION TO THE MANAGEMENT PLAN

A. Policy Statement

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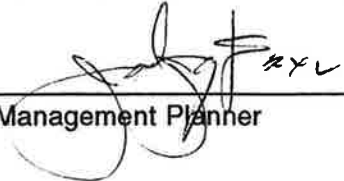
Dated: _____

Capital Development Board Representative

Dated: _____

Agency (Designated Person)

Dated: 10/26/94



Management Planner

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NARRATIVE

CDB BUILDING B4002

BUILDING NAME: Personnel Building # 2

The personnel building was constructed in 1974; it is part of the Howe Mental Health Center. The west exterior wall system was replaced in 1982 due to structural failure. Remodeling work required replacement of interior plaster ceilings and walls at this area.

The building is single story and has a square footage of 4,400 square feet. There is not an attic, crawlspace or basement.

The exterior surfacing material is brick veneer with interior steel channels supporting gypsum board and veneer plaster. Steel columns and beams support bar joists and metal roof deck.

One half of roof is flat; the other is sloped allowing clear story light into the office sections. The flat roof is constructed of built-up roofing on mineral insulation. The pitched roof is terne metal. The roofs are deteriorating and should be replaced.

The building is heated and cooled by a forced air system. Under floor and overhead ducts supply air to all the rooms in the building. An overhead air return system brings air back to the mechanical room. The HVAC system appears in good working order. A hot water heater in the mechanical room supplies hot water to the building. The furnace and hot water heater energy source is gas.

To the best of our knowledge there has not been any asbestos abatement in this building.

No asbestos was detected in any of the material sampled. Areas assumed to contain asbestos were not sampled and no determination of their content can be made. Any asbestos in this building would cause relatively little hazard.

SUMMARY OF FINDINGS

INSPECTION PHASE I

CDB BUILDING NO./PROJECT NO.: B4002
910-010-010

USER AGENCY: Department of Mental Health/DD

USER LOCATION: (070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477 - Cook
County

BUILDING NAME: Personnel Building No.: 2

INSPECTORS: Vahooman Mirkhaef (I-057)
Jay Fox (I-0471)

HOMOGENEOUS AREA	DESCRIPTION	QUANTITY	NUMBER SAMPLES RECOMMENDED	REMOVAL COST ESTIMATE
SFA	Fire Proofing on Beams	550	3	
SPA	Veneer Plaster Ceiling and Walls	700	3	
SPB	Veneer Plaster Walls and Ceiling (1982)	160	3	
TDA	Insulation on Vent Duct	1500	5	
TJA	Mag Block Pipe Fitting	58 ea	3	

INSPECTION PHASE I

CDB BUILDING NO./PROJECT NO.:

**B4002
910-010-010**

USER AGENCY:

Department of Mental Health/DD

USER LOCATION:

**(070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477 - Cook
County**

BUILDING NAME:

Personnel Building.No.: 2

INSPECTORS:

**Vahooman Mirkhaef (I-057)
Jay Fox (I-0471)**

HOMOGENEOUS AREA	DESCRIPTION	QUANTITY	NUMBER SAMPLES RECOMMENDED	REMOVAL COST ESTIMATE
MCA	1 X 1 Ceiling Tile	4950	5	\$ 29,700
MFA	1 X 1 Floor Tile and Mastic	4230	Assumed ACM	\$ 36,167
MMA	Canvas Vibration Damper	20	3	
MMB	Fire Damper Insulation	20	Assumed ACM	
MMC	Exhaust Backdraft Damper Insulation	50	Assumed ACM	
MMD	Mastic Underneath Carpeting	720	Assumed ACM	

INSPECTION PHASE I

CDB BUILDING NO./PROJECT NO.:

**B4002
910-010-010**

USER AGENCY:

Department of Mental Health/DD

USER LOCATION:

**(070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477 - Cook
County**

BUILDING NAME:

Personnel Building No.: 2

INSPECTORS:

**Vahooman Mirkhaef (I-057)
Jay Fox (I-0471)**

HOMOGENEOUS AREA	DESCRIPTION	QUANTITY	NUMBER SAMPLES RECOMMENDED	REMOVAL COST ESTIMATE
MME	Built-up Roof	4200	Assumed ACM	
MTA	Under Floor Duct Pipe and Transite	350	Assumed ACM	

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.: B4002
901-010-010

USER AGENCY: Department of Mental Health

USER LOCATION: (070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477

BUILDING NAME: Personnel Building # 2

INSPECTORS: Vahooman Mirkhaef
Jay Fox
David Sloman

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
MFA	1 X 1 Floor Tile and Mastic	X			
MMB	Fire Damper Insulation	X			
MMC	Exhaust Back Draft Damper Insulation	X			
MMD	Built Up Roof	X			
MTA	Under Floor Duct Pipe and Transite	X			
SFA	Fire Proofing on Beams			3	

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.:

**B4002
901-010-010**

USER AGENCY:

Department of Mental Health

USER LOCATION:

**(070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477**

BUILDING NAME:

Personnel Building # 2

INSPECTORS:

**Vahooman Mirkhaef
Jay Fox
David Sloman**

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
SPA	Veneer Plaster Walls and Ceilings			3	
SPB	Veneer Plaster Walls and Ceiling (1982)			3	
TDA	Insulation on Vent Duct			3	
TJA	Cementitious Fittings on Fiber Glass Pipe			3	
MCA	1 X 1 Ceiling Tile			3	
MMA	Canvas Vibration Damper			3	

FORM 6 SUMMARY OF FINDINGS

MANAGEMENT PLAN PHASE III

BUILDING NAME

Personnel Building #2

LIST IN ORDER OF RESPONSE ACTION NUMBER

C.D.B. BUILDING NUMBER #B4002

HOMOGENEOUS AREA	MATERIAL DESCRIPTION	ACM CONTENT (%)			NO DAMAGE	SALIENT DAMAGE	SIGNIFICANT DAMAGE	NO POTENTIAL DAMAGE	POTENTIAL SIGNIFICANT DAMAGE	DAMAGE ASSESSMENT	
		CHRYSOTILE	AMOSITE	OTHER						ASSUMED ACM	RESPONSE ACTION
MFA	1 x 1 Floor Tile & Mastic Fire Damper Insulation Exh. Damper Insulation Built-Up Roof, Flashings and Mastic Under Floor Duct (Transite)									8	O&M
MMB					X			X		8	O&M
MMC					X			X		8	O&M
MMD					X			X		8	O&M
MTA					X			X		8	O&M

ASBESTOS MANAGEMENT PLAN REPORT

CDB PROJECT NUMBER - 910-010-010

HOWE MENTAL HEALTH CENTER
DEPARTMENT OF MENTAL HEALTH AND
DEVELOPMENTAL DISABILITIES
PUMP HOUSE #3
C.D.B. BUILDING #BB003
7600 WEST 183RD STREET
TINLEY PARK, IL 60477

STATE OF ILLINOIS

CAPITAL DEVELOPMENT BOARD

SPRINGFIELD, ILLINOIS

BY:
FOX & FOX ARCHITECTS & ENGINEERS
330 SOUTH WELLS STREET
CHICAGO, IL 60606
(312) 427-5592

DATE: OCT. 10, 1994 DATE SIGNED: 10/26/94
EXP. DATE: 11/30/96
IDPH LICENSE: 100-0471

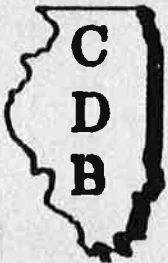


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Pump House No. 3

- I. Building Inventory
- II. Introduction
- III. Narrative Building Description
- IV. Summary of Findings
- V. Site Plan
- VI. Floor Plans
- VII. TPA - Cementitious Pipe Wrap
- VIII. MMA - Built-Up Roof

- IX. Cost Summary
- X. Chain of Custody
- XI. Licenses and Accreditations
- XII. Operation and Maintenance Plan

CAPITAL DEVELOPMENT BOARD BUILDING INVENTORY FORM 3

C.D.B. BUILDING NUMBER: BB003 BUILDING NAME: Pump House

USING AGENCY: 321 Dept of Mental Health/DD LOCATION: 070 Howe DEVL.PMT. CTB (See 185)

BLDG. ADDRESS: 7600 West 183rd Street CITY: Tinley Park

ZIP: 60477 COUNTY: Cook HOUSE/SENATE DISTRICT: 037/19

YEAR CONSTRUCTED: 1957 GROSS SQ. FT. 360 TOTAL FLOORS: 1 FLOORS BELOW GRADE: -----

USE OF BUILDING WHEN CONSTRUCTED(C): Industrial CURRENT PRIMARY USE (P): Industrial CURRENT SECONDARY USE (S): -----

PREDOMINATE CONSTRUCTION TYPE: Brick

FOR USING AGENCY USE ONLY: _____

BUILDING NOTES: _____

(FOR C.D.B. USE ONLY)
ASBESTOS STATUS: _____

FORM 4

INTRODUCTION TO THE MANAGEMENT PLAN

A. Policy Statement

This Management Plan is intended to be a working document which will serve as a guide to staff, employees, occupants and visitors in minimizing the risk of exposure to asbestos fibers. The State of Illinois recognizes the serious health hazards associated with asbestos fibers. The State has conducted an inspection of this facility in order to determine whether asbestos is present, and if so, where the asbestos is located.

This Management Plan sets forth the recommended response actions for the ACM (asbestos containing material) within this facility. Further, where required, an Operations & Maintenance (O & M) Program has been established which will be implemented by facility staff.

This Plan has been reviewed by CDB, the Contracting Agency and the Using Agency and represents the policies and procedures to be implemented with respect to any ACM within this facility.

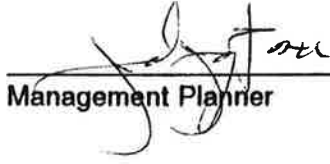
Dated: _____

Capital Development Board Representative

Dated: _____

Agency (Designated Person)

Dated: 10/26/94



Management Planner

The data linking asbestos exposure to mesothelioma is based upon many of the same epidemiological studies of workers that demonstrated an association between asbestos exposure and lung cancer. The findings are somewhat different than for lung cancer. Lower non-occupational exposures have also been associated with mesothelioma in addition to occupational exposure. Therefore, lower levels of exposure to asbestos as found in some non-occupational settings may give rise to mesothelioma. Secondly, the nature of the dose response relationship may be different from that of lung cancer. The risk continues to increase as the number of years since first exposure increases. In many cases, a latent period of more than 40 years has been described.

Gastrointestinal Cancer - Several of the epidemiological studies of workers occupationally exposed to asbestos have shown increased risks of gastrointestinal cancer including cancers of the colon, rectum, stomach and esophagus. The risk, however, does not appear to be as great as for lung cancer. To date, no association has been found between asbestos in drinking water and gastrointestinal cancer.

Asbestos Related Pleural Disease - This category of health effects includes fibrous and sometimes calcified plaques as well as diffuse thickening of the pleura and the pleural effusion. These are non-cancerous changes of the membranes surrounding the lungs and commonly occur many years after asbestos exposure. The presence of plaques suggests prior asbestos exposure but usually does not cause any symptoms or respiratory impairment.

Asbestosis - Asbestosis is a disabling lung disorder consisting of generalized scarring of the lungs which causes shortness of breath on exertion. Asbestosis has been described almost exclusively in workers with occupational exposure to high concentrations of asbestos-containing dusts. In asbestosis, there appears to be a very strong dose response relationship in that the greater the concentration of asbestos fibers, and the longer the duration of exposure, the greater the likelihood and severity of asbestosis.

As with the other asbestos related health effects, there is usually a time lag or latent period of several years before the development of disease. Once acquired, asbestosis tends to progress slowly, sometimes for years after asbestos exposure has ended.

C.D.B. BUILDING NO.: BB003

BUILDING NAME: PUMP HOUSE, BUILDING NO. 3

Pump House #3 was constructed in 1957. It appears that no renovation work has been done to the building. No Form 3 was provided for this building.

The building has one floor; first floor. The building has 360 square feet.

The building is used as a well pump house for the Howe Mental Health Center.

The exterior of the building is constructed of face-brick with concrete back-up.

The existing roof is a built-up roof with flashing and appears to need maintenance work.

To the best of our knowledge, no asbestos abatement work has been performed in the building.

Asbestos Containing Materials were found in this building. Friable asbestos poses a health hazard when it becomes airborne. Some materials were assumed to contain asbestos and were not sampled; no judgement regarding their relative risk to health can be made at this time.

In addition to asbestos containing insulation, this building contained other insulating materials such as fiberglass, cellulose, etc.

SUMMARY OF FINDINGS

INSPECTION PHASE I

FACILITY NAME: Howe Mental Health Center
CDB BUILDING NAME & NUMBER: Pump House No. 3
CDB PROJECT NUMBER: CDB Building No.: BB003
 910-010-010

HOMOGENEOUS AREA	DESCRIPTION	QUANTITY	NUMBER SAMPLES RECOMMENDED	REMOVAL COST ESTIMATE
TPA	Cementitious Pipe Wrap	6 ft	3	
MMA	Built-up Roof	350	Assume	

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.: BB003
901-010-010

USER AGENCY: Department of Mental Health

USER LOCATION: (070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477

BUILDING NAME: Pump House No. 3

INSPECTORS: Jay Fox
Vahooman Mirkhaef
David Sloman

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
TPA	Cementitious Pipe Wrap		3		
MMA	Built-Up Roof	X			

FORM 6 SUMMARY OF FINDINGS

MANAGEMENT PLAN PHASE III

BUILDING NAME

Pump House No.3

LIST IN ORDER OF RESPONSE ACTION NUMBER

C.D.B. BUILDING NUMBER BB003

HOMOGENEOUS AREA	MATERIAL DESCRIPTION	ACM CONTENT (%)				DAMAGE ASSESSMENT							RESPONSE ACTION	
		CHRYSO TILE	AMOSITE	OTHER	ASSUMED ACM	NO DAMAGE	SALIENT	DAMAGE	SIGNIFICANT DAMAGE	NO POTENTIAL DAMAGE	POTENTIAL SIGNIFICANT DAMAGE	POTENTIAL SIGNIFICANT DAMAGE		NUMBER
TPA	Cementitious Insulation (Pipe Wrap) Built-Up Roof and Flashings	20%			X								8	O&M
MMA									X					

ASBESTOS MANAGEMENT PLAN REPORT

CDB PROJECT NUMBER - 910-010-010

HOWE MENTAL HEALTH CENTER
DEPARTMENT OF MENTAL HEALTH AND
DEVELOPMENTAL DISABILITIES
PUMP HOUSE #2
C.D.B. BUILDING #BB002
7600 WEST 183RD STREET
TINLEY PARK, IL 60477

STATE OF ILLINOIS

CAPITAL DEVELOPMENT BOARD

SPRINGFIELD, ILLINOIS

BY:
FOX & FOX ARCHITECTS & ENGINEERS
330 SOUTH WELLS STREET
CHICAGO, IL 60606
(312) 427-5592

DATE: OCT. 10, 1994

DATE SIGNED: 10/26/94

EXP. DATE: 11/30/96

IDPH LICENSE: 100-0471



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Pump House No. 2

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 - VIII. MMA - Built-Up Roof

 - IX. Cost Summary
 - X. Chain of Custody
 - XI. Licenses and Accreditations
 - XII. Operation and Maintenance Plan
-

CAPITAL DEVELOPMENT BOARD BUILDING INVENTORY FORM 3

C.D.B. BUILDING NUMBER: BB002 BUILDING NAME: Pump House

USING AGENCY: 321 Dept of Mental Health/DD LOCATION: 070 Howe DEVLPMNTL CTR (See 185)

BLDG. ADDRESS: 7600 West 183rd Street CITY: Tinley Park
ZIP: 60477 COUNTY: Cook HOUSE/SENATE DISTRICT: 037/19

YEAR CONSTRUCTED: 1957 GROSS SQ. FT.: 360 TOTAL FLOORS: 1 FLOORS BELOW GRADE: ----

USE OF BUILDING WHEN CONSTRUCTED(C): Industrial CURRENT PRIMARY USE (P): Industrial CURRENT SECONDARY USE (S): -----

PREDOMINATE CONSTRUCTION TYPE: Brick

FOR USING AGENCY USE ONLY: _____

BUILDING NOTES: _____

(FOR C.D.B. USE ONLY)
ASBESTOS STATUS: _____

FORM 4

INTRODUCTION TO THE MANAGEMENT PLAN

A. Policy Statement

This Management Plan is intended to be a working document which will serve as a guide to staff, employees, occupants and visitors in minimizing the risk of exposure to asbestos fibers. The State of Illinois recognizes the serious health hazards associated with asbestos fibers. The State has conducted an inspection of this facility in order to determine whether asbestos is present, and if so, where the asbestos is located.

This Management Plan sets forth the recommended response actions for the ACM (asbestos containing material) within this facility. Further, where required, an Operations & Maintenance (O & M) Program has been established which will be implemented by facility staff.

This Plan has been reviewed by CDB, the Contracting Agency and the Using Agency and represents the policies and procedures to be implemented with respect to any ACM within this facility.


Dated: _____

Capital Development Board Representative

Dated: _____

Agency (Designated Person)

Dated: 10/20/94



Management Planner

The data linking asbestos exposure to mesothelioma is based upon many of the same epidemiological studies of workers that demonstrated an association between asbestos exposure and lung cancer. The findings are somewhat different than for lung cancer. Lower non-occupational exposures have also been associated with mesothelioma in addition to occupational exposure. Therefore, lower levels of exposure to asbestos as found in some non-occupational settings may give rise to mesothelioma. Secondly, the nature of the dose response relationship may be different from that of lung cancer. The risk continues to increase as the number of years since first exposure increases. In many cases, a latent period of more than 40 years has been described.

Gastrointestinal Cancer - Several of the epidemiological studies of workers occupationally exposed to asbestos have shown increased risks of gastrointestinal cancer including cancers of the colon, rectum, stomach and esophagus. The risk, however, does not appear to be as great as for lung cancer. To date, no association has been found between asbestos in drinking water and gastrointestinal cancer.

Asbestos Related Pleural Disease - This category of health effects includes fibrous and sometimes calcified plaques as well as diffuse thickening of the pleura and the pleural effusion. These are non-cancerous changes of the membranes surrounding the lungs and commonly occur many years after asbestos exposure. The presence of plaques suggests prior asbestos exposure but usually does not cause any symptoms or respiratory impairment.

Asbestosis - Asbestosis is a disabling lung disorder consisting of generalized scarring of the lungs which causes shortness of breath on exertion. Asbestosis has been described almost exclusively in workers with occupational exposure to high concentrations of asbestos-containing dusts. In asbestosis, there appears to be a very strong dose response relationship in that the greater the concentration of asbestos fibers, and the longer the duration of exposure, the greater the likelihood and severity of asbestosis.

As with the other asbestos related health effects, there is usually a time lag or latent period of several years before the development of disease. Once acquired, asbestosis tends to progress slowly, sometimes for years after asbestos exposure has ended.

C.D.B. BUILDING NO.: BB002

BUILDING NAME: PUMP HOUSE, BUILDING NO. 2

Pump House #2 was constructed in 1957. It appears that no renovation work has been done to the building.

The building has one floor; first floor. The building has 360 square feet.

The building is used as a well pump house for the Howe Mental Health Center.

The exterior of the building is constructed of face-brick with concrete back-up.

The existing roof is a built-up roof with flashing and appears to need maintenance work.

To the best of our knowledge, no asbestos abatement work has been performed in the building.

Asbestos Containing Materials were found in this building. Friable asbestos poses a health hazard when it becomes airborne. Some materials were assumed to contain asbestos and were not sampled; no judgement regarding their relative risk to health can be made at this time.

In addition to asbestos containing insulation, this building contained other insulating materials such as fiberglass, cellulose, etc.

SUMMARY OF FINDINGS

INSPECTION PHASE I

FACILITY NAME: Howe Mental Health Center
CDB BUILDING NAME & NUMBER: Pump House No. 2
CDB PROJECT NUMBER: CDB Building No.: BB002
 910-010-010

HOMOGENEOUS AREA	DESCRIPTION	QUANTITY	NUMBER SAMPLES RECOMMENDED	REMOVAL COST ESTIMATE
TPA	Cementitious Pipe Wrap	6	3	
MMA	Built-up Roof	350	Assume	

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.: BB002
901-010-010

USER AGENCY: Department of Mental Health

USER LOCATION: (070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477

BUILDING NAME: Pump House No. 2

INSPECTORS: Jay Fox
Vahooman Mirkhaef
David Sloman

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
TPA	Cementitious Pipe Wrap		3		
MMA	Built-Up Roof	X			

FORM 6 SUMMARY OF FINDINGS

MANAGEMENT PLAN PHASE III

BUILDING NAME Pump House No. 2

LIST IN ORDER OF RESPONSE ACTION NUMBER

C.D.B. BUILDING NUMBER BB002

HOMOGENEOUS AREA	MATERIAL DESCRIPTION	ACM CONTENT (%)			DAMAGE ASSESSMENT								RESPONSE ACTION	
		CHRYSOTILE	AMOSITE	OTHER	ASSUMED ACM	NO DAMAGE	SALIENT	DAMAGE	SIGNIFICANT DAMAGE	NO POTENTIAL DAMAGE	POTENTIAL SIGNIFICANT DAMAGE	POTENTIAL SIGNIFICANT DAMAGE		NUMBER
TPA	Cementitious Insulation (Pipe Wrap) Built-Up Roof and Flashings	15%											8	O&M
MMA					X					X				8

ASBESTOS MANAGEMENT PLAN REPORT

CDB PROJECT NUMBER - 910-010-010

HOWE MENTAL HEALTH CENTER
DEPARTMENT OF MENTAL HEALTH AND
DEVELOPMENTAL DISABILITIES
ADMINISTRATION BUILDING #3
C.D.B. BUILDING #B4003
7600 WEST 183RD STREET
TINLEY PARK, IL 60477

STATE OF ILLINOIS

CAPITAL DEVELOPMENT BOARD

SPRINGFIELD, ILLINOIS

BY:
FOX & FOX ARCHITECTS & ENGINEERS
330 SOUTH WELLS STREET
CHICAGO, IL 60606
(312) 427-5592

DATE: OCT. 10, 1994

DATE SIGNED: 10/26/94

EXP. DATE: 11/30/96

IDPH LICENSE: 100-0471

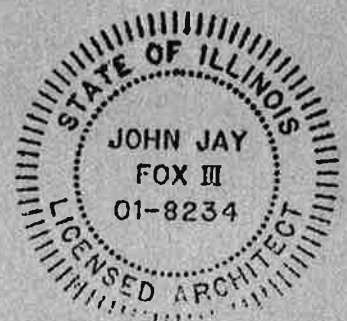
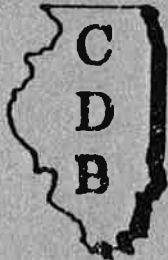


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- IX. MMC - Exhaust Back Draft
- X. MMD - Mastic Underneath Carpeting
- XI. MME - Built-Up Roof
- XII. MTA - Under Floor Duct Pipe and Transite
- XIII. SFA - Fire Proofing on Beams
- XIV. SPA - Veneer Plaster Ceiling and Walls
- XV. SPB - Veneer Plaster Walls and Ceiling (1982)
- XVI. SPC - Veneer Plaster Walls and Ceiling (1987)
- XVII. TDA - Insulation on Vent Duct
- XVIII. TJA - Cementitious Fittings on Fiberglass Insulated Pipe
- XIX. MCA - 1 x 1 Ceiling Tile
- XX. MMA - Canvas Vibration Damper

- XXI. Cost Summary
- XXII. Chain of Custody
- XXIII. Licenses and Accreditations
- XXIV. Operation and Maintenance Plan

CAPITAL DEVELOPMENT BOARD BUILDING INVENTORY FORM 3

C.D.B. BUILDING NUMBER: B4003 BUILDING NAME: ADMINISTRATION BLDG

USING AGENCY: 321 DEPT OF MENTAL HEALTH/DD LOCATION: 070 HOWE DEVLPMNTL CTR (SEE 185)

BLDG. ADDRESS: 7600 WEST 183rd STREET CITY: TINLEY PARK

ZIP: 60477 COUNTY: COOK HOUSE/SENATE DISTRICT: 037/19

YEAR CONSTRUCTED: 1974 GROSS SQ. FT. 5,600 TOTAL FLOORS: 1 FLOORS BELOW GRADE: -----

USE OF BUILDING WHEN CONSTRUCTED(C): BUSINESS CURRENT PRIMARY USE (P): BUSINESS CURRENT SECONDARY USE (S): -----

PREDOMINATE CONSTRUCTION TYPE: BRICK

FOR USING AGENCY USE ONLY: _____

BUILDING NOTES: _____

(FOR C.D.B. USE ONLY)
ASBESTOS STATUS: _____

FORM 4

INTRODUCTION TO THE MANAGEMENT PLAN

A. Policy Statement

This Management Plan is intended to be a working document which will serve as a guide to staff, employees, occupants and visitors in minimizing the risk of exposure to asbestos fibers. The State of Illinois recognizes the serious health hazards associated with asbestos fibers. The State has conducted an inspection of this facility in order to determine whether asbestos is present, and if so, where the asbestos is located.

This Management Plan sets forth the recommended response actions for the ACM (asbestos containing material) within this facility. Further, where required, an Operations & Maintenance (O & M) Program has been established which will be implemented by facility staff.

This Plan has been reviewed by CDB, the Contracting Agency and the Using Agency and represents the policies and procedures to be implemented with respect to any ACM within this facility.

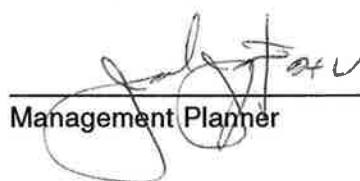
Dated: _____

Capital Development Board Representative

Dated: _____

Agency (Designated Person)

Dated: 10/26/94



Management Planner

The data linking asbestos exposure to mesothelioma is based upon many of the same epidemiological studies of workers that demonstrated an association between asbestos exposure and lung cancer. The findings are somewhat different than for lung cancer. Lower non-occupational exposures have also been associated with mesothelioma in addition to occupational exposure. Therefore, lower levels of exposure to asbestos as found in some non-occupational settings may give rise to mesothelioma. Secondly, the nature of the dose response relationship may be different from that of lung cancer. The risk continues to increase as the number of years since first exposure increases. In many cases, a latent period of more than 40 years has been described.

Gastrointestinal Cancer - Several of the epidemiological studies of workers occupationally exposed to asbestos have shown increased risks of gastrointestinal cancer including cancers of the colon, rectum, stomach and esophagus. The risk, however, does not appear to be as great as for lung cancer. To date, no association has been found between asbestos in drinking water and gastrointestinal cancer.

Asbestos Related Pleural Disease - This category of health effects includes fibrous and sometimes calcified plaques as well as diffuse thickening of the pleura and the pleural effusion. These are non-cancerous changes of the membranes surrounding the lungs and commonly occur many years after asbestos exposure. The presence of plaques suggests prior asbestos exposure but usually does not cause any symptoms or respiratory impairment.

Asbestosis - Asbestosis is a disabling lung disorder consisting of generalized scarring of the lungs which causes shortness of breath on exertion. Asbestosis has been described almost exclusively in workers with occupational exposure to high concentrations of asbestos-containing dusts. In asbestosis, there appears to be a very strong dose response relationship in that the greater the concentration of asbestos fibers, and the longer the duration of exposure, the greater the likelihood and severity of asbestosis.

As with the other asbestos related health effects, there is usually a time lag or latent period of several years before the development of disease. Once acquired, asbestosis tends to progress slowly, sometimes for years after asbestos exposure has ended.

NARRATIVE

CDB BUILDING B4003

BUILDING NAME: ADMINISTRATION BUILDING NO.: 3

The administration building was constructed in 1974: it is part of the Howe Mental Health Center. The southwest exterior wall system was replaced in 1982 due to structural failure. Remodeling work required replacement of interior plaster ceilings and walls at this area. Interior walls were remodeled in 1987.

The building is single story and has a square footage of 5,600 square feet. There is not an attic, crawlspace or basement.

The exterior surfacing material is brick veneer with interior steel channels supporting gypsum board and veneer plaster. Steel columns and beams support bar joists and metal roof deck.

The roof is flat except for a sloped section at the lounge. The flat roof is constructed of built-up roofing on mineral insulation. The pitched roof is terne metal. The roofs are deteriorating and should be replaced.

The building is heated and cooled by a forced air system. Under floor and overhead duct supply air to all the rooms in the building. An overhead air return system brings air back to the mechanical room. The HVAC system appears in good working order. A hot water heater supplies hot water to the building. The furnace and hot water heater energy source is gas.

To the best of our knowledge there has not been any asbestos abatement in this building.

No asbestos was detected in any of the material sampled. Areas assumed to contain asbestos were not sampled and no determination of their content can be made. Any asbestos in this building would cause relatively little hazard.

SUMMARY OF FINDINGS

INSPECTION PHASE I

CDB BUILDING NO./PROJECT NO.:

**B4003
910-010-010**

USER AGENCY:

Department of Mental Health/DD

USER LOCATION:

**(070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477 - Cook
County**

BUILDING NAME:

Administration Building No.: 3

INSPECTORS:

**Vahooman Mirkhaef (I-057)
Jay Fox (I-0471)**

HOMOGENEOUS AREA	DESCRIPTION	QUANTITY	NUMBER SAMPLES RECOMMENDED	REMOVAL COST ESTIMATE
SFA	Fire Proofing on Beams	550	3	
SPA	Veneer Plaster Ceiling and Walls	700	3	
SPB	Veneer Plaster Walls and Ceiling (1982)	160	3	
SPC	Veneer Plaster Walls and Ceiling (1987)	800	3	
TDA	Insulation on Vent Duct	1500	5	
TJA	Mag Block Pipe Fitting	58 ea	3	

INSPECTION PHASE I

CDB BUILDING NO./PROJECT NO.:

**B4003
910-010-010**

USER AGENCY:

Department of Mental Health/DD

USER LOCATION:

**(070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477 - Cook
County**

BUILDING NAME:

Administration Building No.: 3

INSPECTORS:

**Vahooman Mirkhaef (I-057)
Jay Fox (I-0471)**

HOMOGENEOUS AREA	DESCRIPTION	QUANTITY	NUMBER SAMPLES RECOMMENDED	REMOVAL COST ESTIMATE
MCA	1 X 1 Ceiling Tile	4950	5	\$ 29,700
MFA	1 X 1 Floor Tile and Mastic	4230	Assumed ACM	\$ 36,167
MMA	Canvas Vibration Damper	20	3	
MMB	Fire Damper Insulation	20	Assumed ACM	
MMC	Exhaust Backdraft Damper Insulation	50	Assumed ACM	
MMD	Mastic Underneath Carpeting	720	Assumed ACM	

INSPECTION PHASE I

CDB BUILDING NO./PROJECT NO.:

**B4003
910-010-010**

USER AGENCY:

Department of Mental Health/DD

USER LOCATION:

**(070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477 - Cook
County**

BUILDING NAME:

Administration Building No.: 3

INSPECTORS:

**Vahooman Mirkhaef (I-057)
Jay Fox (I-0471)**

HOMOGENEOUS AREA	DESCRIPTION	QUANTITY	NUMBER SAMPLES RECOMMENDED	REMOVAL COST ESTIMATE
MME	Built-up Roof	6,000	Assumed ACM	
MTA	Under Floor Duct Pipe and Transite	400	Assumed ACM	

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.: B4003
901-010-010

USER AGENCY: Department of Mental Health/DD

USER LOCATION: Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477

BUILDING NAME: Administration Building No.: 3

INSPECTORS: Valooman Mirkhaef
Jay Fox
David Sloman

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
MFA	1 X 1 Floor Tile Mastic	X			
MMB	Fire Damper Insulation	X			
MMC	Exhaust Back Draft Damper Insulation	X			
MMD	Mastic underneath Carpeting	X			
MME	Built up Roof	X			
MTA	Under Floor Duct Pipe and Transite	X			

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.:

**B4003
901-010-010**

USER AGENCY:

(070) Department of Mental Health/DD

USER LOCATION:

**Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477**

BUILDING NAME:

Administration Building No.: 3

INSPECTORS:

**Vahooman Mirkhaef
Jay Fox
David Sloman**

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
SFA	Fire Proofing on Beams			3	
SPA	Veneer Plaster Ceiling and Wall			3	
SPB	Veneer Plaster Ceiling and Walls (1982)			3	
SPC	Veneer Plaster Walls and Ceiling (1987)			3	
TDA	Insulation on Vent Duct			3	
TJA	Cementitious Fittings on Fiberglass Insulated Pipe			3	

*
*

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.:

**B4003
901-010-010**

USER AGENCY:

(070) Department of Mental Health/DD

USER LOCATION:

**Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477**

BUILDING NAME:

Administration Building No.: 3

INSPECTORS:

**Vahooman Mirkhaef
Jay Fox
David Sloman**

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
MCA	1 X 1 Ceiling Tile			3	
MMA	Canvas Vibration Damper			3	

FORM 6 - SUMMARY OF FINDINGS

MANAGEMENT PLAN PHASE III

BUILDING NAME Administration Building #3

LIST IN ORDER OF RESPONSE ACTION NUMBER

C.D.B. BUILDING NUMBER B4003

HOMOGENEOUS AREA	MATERIAL DESCRIPTION	ACM CONTENT (%)			DAMAGE ASSESSMENT							RESPONSE ACTION		
		CHRYSOTILE	AMOSITE	OTHER	NO DAMAGE	SALIENT	DAMAGE	SIGNIFICANT DAMAGE	NO POTENTIAL DAMAGE	POTENTIAL DAMAGE	POTENTIAL SIGNIFICANT DAMAGE		NUMBER	DESCRIPTION (I.E. REMOVE, REPAIR, ENCLOSE, ENCAPSULATE, OR O&M)
MFA	1 x 1 Floor Tile & Mastic Fire Damper Insulation Exhaust Backdraft Damper Insulation Mastic Under Carpeting Built-Up Roof, Flashings and Mastic Under Floor Duct Pipe (Transite)											8	O&M	
MMB								X	X			8	O&M	
MMC														
MMD								X	X				8	O&M
MME								X	X				8	O&M
MTA								X		X			8	O&M
								X		X			8	O&M

ASBESTOS MANAGEMENT PLAN REPORT

CDB PROJECT NUMBER - 910-010-010

HOWE MENTAL HEALTH CENTER
DEPARTMENT OF MENTAL HEALTH AND
DEVELOPMENTAL DISABILITIES
WATER TREATMENT PLANT #6
C.D.B. BUILDING #BB006
7600 WEST 183RD STREET
TINLEY PARK, IL 60477

STATE OF ILLINOIS

CAPITAL DEVELOPMENT BOARD

SPRINGFIELD, ILLINOIS

BY:
FOX & FOX ARCHITECTS & ENGINEERS
330 SOUTH WELLS STREET
CHICAGO, IL 60606
(312) 427-5592

DATE: OCT. 10, 1994

DATE SIGNED: 10/26/94

EXP. DATE: 11/30/96

IDPH LICENSE: 100-0471

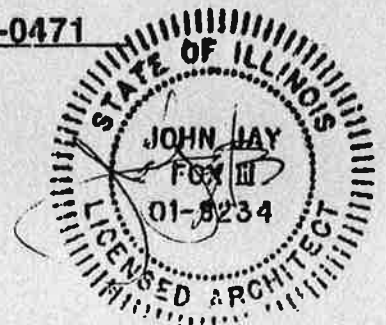


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Water Treatment Plant No. 6

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- VIII. TFA - Boiler Flue Insulation
- IX. TJA - Cementitious Fittings at Air Cell Pipe
- X. TJB - Cementitious Fittings at Cementitious Insulation
- XI. TPA - Air Cell Pipe Insulation
- XII. TPB - Cementitious Pipe Insulation
- XIII. TPC - Cementitious Insulation on Electrical Conduit
- XIV. TTA - Cementitious Tank Insulation
- XV. MME - Mortar Brick Base
- XVI. MMF - Boiler Gasket Insulation Rope
- XVII. MMA - Metal Fire Door
- XVIII. MMC - Built-Up Roof
- XIX. MMD - Exhaust Back-Draft Damper Insulation
- XX. MSA - Asbestos Stockpile
- XXI. SPA - Veneer Plaster Ceiling
- XXII. SPB - Gray Coat Plaster Walls
- XXIII. TBB - Cementitious Insulation Inside Boiler Room
- XXIV. TJC - Cementitious Fittings on Fiberglass Insulation
- XXV. MMB - Canvas Vibration Damper

- XXVI. Cost Summary
- XXVII. Chain of Custody
- XXVIII. Licenses and Accreditations
- XXIX. Operation and Maintenance Plan

CAPITAL DEVELOPMENT BOARD BUILDING INVENTORY FORM 3

C.D.B. BUILDING NUMBER: BB006 BUILDING NAME: Water Treatment Plant #6

USING AGENCY: 321 Dept of Mental Health/DD LOCATION: 070 Howe DEVLPMNTL CTR (See 185)

BLDG. ADDRESS: 7600 West 183rd Street CITY: Tinley Park

ZIP: 60477 COUNTY: Cook HOUSE/SENATE DISTRICT: 037/19

YEAR CONSTRUCTED: 1955 GROSS SQ. FT. 9,426 TOTAL FLOORS: 3 FLOORS BELOW GRADE: 2

USE OF BUILDING WHEN CONSTRUCTED(C): Industrial CURRENT PRIMARY USE (P): Industrial CURRENT SECONDARY USE (S): -----

PREDOMINATE CONSTRUCTION TYPE: Brick -- Third Floor is partial

FOR USING AGENCY USE ONLY: _____

BUILDING NOTES: _____

(FOR C.D.B. USE ONLY) ASBESTOS STATUS: _____

FORM 4

INTRODUCTION TO THE MANAGEMENT PLAN

A. Policy Statement

This Management Plan is intended to be a working document which will serve as a guide to staff, employees, occupants and visitors in minimizing the risk of exposure to asbestos fibers. The State of Illinois recognizes the serious health hazards associated with asbestos fibers. The State has conducted an inspection of this facility in order to determine whether asbestos is present, and if so, where the asbestos is located.

This Management Plan sets forth the recommended response actions for the ACM (asbestos containing material) within this facility. Further, where required, an Operations & Maintenance (O & M) Program has been established which will be implemented by facility staff.

This Plan has been reviewed by CDB, the Contracting Agency and the Using Agency and represents the policies and procedures to be implemented with respect to any ACM within this facility.

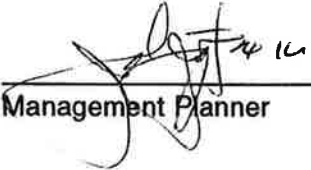
Dated: _____

Capital Development Board Representative

Dated: _____

Agency (Designated Person)

Dated: 10/26/94



Management Planner

The data linking asbestos exposure to mesothelioma is based upon many of the same epidemiological studies of workers that demonstrated an association between asbestos exposure and lung cancer. The findings are somewhat different than for lung cancer. Lower non-occupational exposures have also been associated with mesothelioma in addition to occupational exposure. Therefore, lower levels of exposure to asbestos as found in some non-occupational settings may give rise to mesothelioma. Secondly, the nature of the dose response relationship may be different from that of lung cancer. The risk continues to increase as the number of years since first exposure increases. In many cases, a latent period of more than 40 years has been described.

Gastrointestinal Cancer - Several of the epidemiological studies of workers occupationally exposed to asbestos have shown increased risks of gastrointestinal cancer including cancers of the colon, rectum, stomach and esophagus. The risk, however, does not appear to be as great as for lung cancer. To date, no association has been found between asbestos in drinking water and gastrointestinal cancer.

Asbestos Related Pleural Disease - This category of health effects includes fibrous and sometimes calcified plaques as well as diffuse thickening of the pleura and the pleural effusion. These are non-cancerous changes of the membranes surrounding the lungs and commonly occur many years after asbestos exposure. The presence of plaques suggests prior asbestos exposure but usually does not cause any symptoms or respiratory impairment.

Asbestosis - Asbestosis is a disabling lung disorder consisting of generalized scarring of the lungs which causes shortness of breath on exertion. Asbestosis has been described almost exclusively in workers with occupational exposure to high concentrations of asbestos-containing dusts. In asbestosis, there appears to be a very strong dose response relationship in that the greater the concentration of asbestos fibers, and the longer the duration of exposure, the greater the likelihood and severity of asbestosis.

As with the other asbestos related health effects, there is usually a time lag or latent period of several years before the development of disease. Once acquired, asbestosis tends to progress slowly, sometimes for years after asbestos exposure has ended.

C.D.B. BUILDING NO.: BB006

BUILDING NAME: WATER TREATMENT PLANT, BUILDING NO. 6

The Water Treatment Plant was constructed in 1955. Minor renovation has been done to the building over the years.

The building has three floors; a sub-basement, basement floor and first floor. The building has 9,426 square feet.

The building treats water for service to the patients and buildings at Howe Mental Health Center.

The exterior of the building is constructed of steel columns and beams with window wall and face-brick. The sub-basement and basement are framed in cast in place concrete walls, columns and beams.

The existing roof is built-up roofing. The roof appears to need maintenance work.

The mechanical systems are from the original construction. The boiler feeds heat to radiators and unit heaters located throughout the building. An exhaust system is provided in the building to ventilate the floors.

To the best of our knowledge, no asbestos abatement work has been performed in the building. However, during the Inspection Phase, Homogeneous Area TJC-Cementitious Fittings at Fiberglass Insulation was detected. During the Sampling Phase, it was discovered that this homogeneous area had been abated. Homogeneous Area TTA-Cementitious Tank Insulation, was discovered.

Asbestos Containing Materials were found in this building. Friable asbestos poses a health hazard when it becomes airborne. Some materials were assumed to contain asbestos and were not sampled; no judgement regarding their relative risk to health can be made at this time.

In addition to asbestos containing insulation, this building contained other insulating materials such as fiberglass, cellulose, etc.

SUMMARY OF FINDINGS

INSPECTION PHASE 1.

FACILITY NAME: Howe Mental Health Center

CDB BUILDING NAME & NUMBER: Water Treatment Plant #6

 CDB Building No.: BB006

CDB PROJECT NUMBER: 910-010-010

HOMOGENEOUS AREA	DESCRIPTION	QUANTITY	NUMBER SAMPLES RECOMMENDED	REMOVAL COST ESTIMATE
SPA	Veneer Plaster Ceiling	25 s.f.	3	\$
SPB	Gray Coat Plaster Walls	3900	5	\$
TBA	Boiler Insulation	300	3	\$
TBB	Cementitious Insulation Inside Boiler Door	16	3	\$
TFA	Boiler Flue Insulation	20	3	\$
TJA	Cementitious Fitting Insulation on Pipe	75	3	\$
TJB	Cementitious Fitting Insulation on Pipe	70	3	\$
TJC	Cementitious Fitting on Fiberglass Pipe	4	3	\$
TPA	Air Cell Pipe Insulation	200	1	\$
TPB	Cementitious Pipe Insulation	120	3	\$
TPC	Cementitious Pipe Insulation	10	3	\$

INSPECTION PHASE 1.

FACILITY NAME: Howe Mental Health Center
CDB BUILDING NAME & NUMBER: Water Treatment Plant #6
 CDB Building No.: BB006
CDB PROJECT NUMBER: 910-010-010

HOMOGENEOUS AREA	DESCRIPTION	QUANTITY	NUMBER SAMPLES RECOMMENDED	REMOVAL COST ESTIMATE
				\$
MMA	Metal Fire Door	1	Assume	\$
MMB	Canvas Vibration Damper	15	3	\$
MNC	Built-up Roof	4,000	Assume	\$
MND	Insulation Material on Exhaust Backdraft Damper	10	3	\$
MME	Mortar in Brick Base	200	3	\$
MMF	Boiler Gasket Insulation Rope	15	3	\$
MSA	Cementitious Material	50	Assume	\$
				\$
				\$
				\$
				\$

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.: BB006
901-010-010

USER AGENCY: Department of Mental Health

USER LOCATION: (070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477

BUILDING NAME: Water Treatment Plant #6

INSPECTORS: Jay Fox
Vahooman Mirkhaef
David Sloman

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
TBA	Cementitious Boiler Insulation		3		
TFA	Boiler Flue Insulation		3		
TJA	Cementitious Fitting Insulation on Aircell Pipe		3		
TJB	Cementitious Fitting Insulation on Cementitious Insulation		3		
TPA	Air Cell Pipe Insulation		1		
TPB	Cementitious Pipe Insulation		3		

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.:

**BB006
901-010-010**

USER AGENCY:

Department of Mental Health

USER LOCATION:

**(070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477**

BUILDING NAME:

Water Treatment Plant #6

INSPECTORS:

**Jay Fox
Yahooman Mirkhaef
David Sloman**

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
TPC	Cementitious Insulation on Electrical Conduit		3		
TTA	Cementitious Tank Insulation		3		
MME	Brick Base		3		
MMF	Boiler Gasket Insulation Rope		3		
MMA	Metal Fire Door	X			
MMC	Built-Up Roof	X			
MMD	Exhaust Backdraft Damper Insulation	X			

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.: BB006
901-010-010

USER AGENCY: Department of Mental Health

USER LOCATION: (070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477

BUILDING NAME: Water Treatment Plant #6

INSPECTORS: Jay Fox
Vahooman Mirkhaef
David Sloman

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
MSA	Asbestos Stockpile	X			
SPA	Veneer Plaster Ceiling			1	
SPB	Gray Coat Plaster Walls			5	
TBB	Cementitious Insulation Inside Boiler Door			3	
TJC	Cementitious Fittings on Fiberglass Insul.	X		3	**
MMB	Canvas Vibration Damper			3	

** - During sampling phase, this material was not located and had been apparently removed.

FORM 6 - SUMMARY OF FINDINGS

MANAGEMENT PLAN PHASE III
LIST IN ORDER OF RESPONSE ACTION NUMBER

BUILDING NAME Water Treatment Plant No. 6
C.D.B. BUILDING NUMBER BB006

HOMOGENEOUS AREA	MATERIAL DESCRIPTION	ACM CONTENT (%)			ASSUMED ACM	DAMAGE ASSESSMENT							RESPONSE ACTION	DESCRIPTION (I.E. REMOVE, REPAIR, ENCLOSE, ENCAPSULATE, OR O&M)		
		CHRYSOTILE	AMOSITE	OTHER		NO DAMAGE	SALENT DAMAGE	SIGNIFICANT DAMAGE	NO POTENTIAL DAMAGE	POTENTIAL DAMAGE	POTENTIAL SIGNIFICANT DAMAGE	NUMBER				
TBA	Cementitious Boiler Insulation	25%							X					8	O&M	
TFA	Boiler Flue Insulation	25-30%							X					8	O&M	
TJA	Cementitious Fittings at Air Cell	30%									X			7	O&M	
TJB	Cementitious Fittings at Cementitious Insulation	25%	1-5%						X					8	O&M	
TPA	Air Cell Pipe Insulation	5%									X			7	O&M	
TPB	Cementitious Pipe Insulation	5-10%							X					8	O&M	
TPC	Cementitious Insulation at Electrical Conduit	10%									X			8	O&M	
TTA	Cementitious Tank Insulation	15%								X				1	Remove	
MME	Brick Mortar at Boiler	1-5%	5%							X				8	O&M	
MMF	Boiler Gasket Ins. Rope	5%	20%							X				8	O&M	
MMA	Metal Fire Door									X				8	O&M	
MMC	Built-Up Roof									X				8	O&M	
MMD	Exhaust Back-Draft Damper									X				8	O&M	
MSA	Asbestos Stockpile									X				3	O&M	

ASBESTOS MANAGEMENT PLAN REPORT

CDB PROJECT NUMBER - 910-010-010

HOWE MENTAL HEALTH CENTER
DEPARTMENT OF MENTAL HEALTH AND
DEVELOPMENTAL DISABILITIES
POWER PLANT #8
C.D.B. BUILDING #BB008
7600 WEST 183RD STREET
TINLEY PARK, IL 60477

STATE OF ILLINOIS

CAPITAL DEVELOPMENT BOARD

SPRINGFIELD, ILLINOIS

BY:
FOX & FOX ARCHITECTS & ENGINEERS
330 SOUTH WELLS STREET
CHICAGO, IL 60606
(312) 427-5592

DATE: OCT. 10, 1994

DATE SIGNED: 10/26/94

EXP. DATE: 11/30/96

IDPH LICENSE: 100-0471

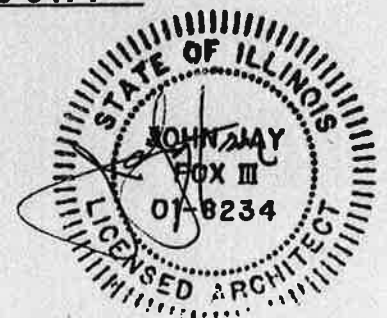
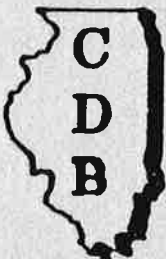


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Power Plant No. 8

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- X. TJA - Cementitious Fitting on Electrical Conduit
- XI. TJB - Cementitious Pipe Fitting
- XII. TJC - Cementitious Fitting on Fiberglass Insulation
- XIII. TJD - Air Cell Pipe Fitting
- XIV. TPA - Cementitious Pipe Insulation
- XV. TPB - Air Cell Pipe Insulation
- XVI. TTA - Cementitious Insulation on Water Softener Tank
- XVII. TTB - Cementitious Insulation on Holding Tank
- XVIII. TTC - Cementitious Insulation on Hot Water Tank
- XIX. TTD - Cementitious Insulation on Condensate Tanks
- XX. TTE - Cementitious Insulation on Oil Heating Convert
- XXI. TTF - Feed Water Tank
- XXII. MMC - Boiler Gaskets
- XXIII. MMD - Boiler Gaskets #2
- XXIV. MFA - 9 x 9 Vinyl Tile and Mastic
- XXV. MMB - Exhaust Back-Draft Damper Insulation
- XXVI. MSA - Asbestos Stockpile
- XXVII. MMA - Vibration Damper Insulation

- XXVIII. Cost Summary

- XXIX. Chain of Custody

- XXX. Licenses and Accreditations

- XXXI. Operation and Maintenance Plan

CAPITAL DEVELOPMENT BOARD BUILDING INVENTORY FORM 3

C.D.B. BUILDING NUMBER: BB008 BUILDING NAME: Power Plant

USING AGENCY: 321 Dept of Mental Health/dn LOCATION: 070 Howe DEVL.PMTI.ctr (See 185)

BLDG. ADDRESS: 7600 West 183rd Street CITY: Tinley Park

ZIP: 60477 COUNTY: Cook HOUSE/SENATE DISTRICT: 037/19

YEAR CONSTRUCTED: 1957 GROSS SQ. FT. 24,121 TOTAL FLOORS: 2 FLOORS BELOW GRADE: 1

USE OF BUILDING WHEN CONSTRUCTED(C): Industrial CURRENT PRIMARY USE (P): Industrial CURRENT SECONDARY USE (S): -----

PREDOMINATE CONSTRUCTION TYPE: Brick

FOR USING AGENCY USE ONLY: _____

BUILDING NOTES: _____

(FOR C.D.B. USE ONLY)
ASBESTOS STATUS: _____

FORM 4

INTRODUCTION TO THE MANAGEMENT PLAN

A. Policy Statement

This Management Plan is intended to be a working document which will serve as a guide to staff, employees, occupants and visitors in minimizing the risk of exposure to asbestos fibers. The State of Illinois recognizes the serious health hazards associated with asbestos fibers. The State has conducted an inspection of this facility in order to determine whether asbestos is present, and if so, where the asbestos is located.

This Management Plan sets forth the recommended response actions for the ACM (asbestos containing material) within this facility. Further, where required, an Operations & Maintenance (O & M) Program has been established which will be implemented by facility staff.

This Plan has been reviewed by CDB, the Contracting Agency and the Using Agency and represents the policies and procedures to be implemented with respect to any ACM within this facility.

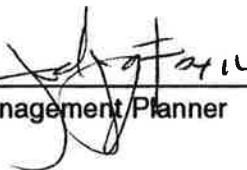
Dated: _____

Capital Development Board Representative

Dated: _____

Agency (Designated Person)

Dated: 10/26/94



Management Planner

The data linking asbestos exposure to mesothelioma is based upon many of the same epidemiological studies of workers that demonstrated an association between asbestos exposure and lung cancer. The findings are somewhat different than for lung cancer. Lower non-occupational exposures have also been associated with mesothelioma in addition to occupational exposure. Therefore, lower levels of exposure to asbestos as found in some non-occupational settings may give rise to mesothelioma. Secondly, the nature of the dose response relationship may be different from that of lung cancer. The risk continues to increase as the number of years since first exposure increases. In many cases, a latent period of more than 40 years has been described.

Gastrointestinal Cancer - Several of the epidemiological studies of workers occupationally exposed to asbestos have shown increased risks of gastrointestinal cancer including cancers of the colon, rectum, stomach and esophagus. The risk, however, does not appear to be as great as for lung cancer. To date, no association has been found between asbestos in drinking water and gastrointestinal cancer.

Asbestos Related Pleural Disease - This category of health effects includes fibrous and sometimes calcified plaques as well as diffuse thickening of the pleura and the pleural effusion. These are non-cancerous changes of the membranes surrounding the lungs and commonly occur many years after asbestos exposure. The presence of plaques suggests prior asbestos exposure but usually does not cause any symptoms or respiratory impairment.

Asbestosis - Asbestosis is a disabling lung disorder consisting of generalized scarring of the lungs which causes shortness of breath on exertion. Asbestosis has been described almost exclusively in workers with occupational exposure to high concentrations of asbestos-containing dusts. In asbestosis, there appears to be a very strong dose response relationship in that the greater the concentration of asbestos fibers, and the longer the duration of exposure, the greater the likelihood and severity of asbestosis.

As with the other asbestos related health effects, there is usually a time lag or latent period of several years before the development of disease. Once acquired, asbestosis tends to progress slowly, sometimes for years after asbestos exposure has ended.

C.D.B. BUILDING NO.: BB008

BUILDING NAME: POWER PLANT, BUILDING NO. 8

The power plant was constructed in 1957. A third boiler was added to the power plant after construction of the building and sits next to the existing two boilers.

The building has two floors, a basement floor and a first floor. In addition, it has an intermediate and upper floor that serve the boiler equipment in the plant. The building is 24, 121 square feet.

The building is used to generate steam for heating and domestic hot water for use at the Howe Tinley Park Mental Health Facility. Steam and hot water are fed through an underground tunnel system that feeds the facility.

The exterior consists of masonry construction and curtain wall. The building is framed in steel. The existing roof has been removed and a new roof recently installed in the last year.

The power plant is in good condition. All systems appear to be well maintained. The drawings indicate underground fuel storage tanks next to the existing structure.

Asbestos Containing Materials were found in this building. Friable asbestos poses a health hazard when it becomes airborne. Some materials were assumed to contain asbestos and were not sampled; no judgement regarding their relative risk to health can be made at this time.

In addition to asbestos containing insulation, this building contained other insulating materials such as fiberglass, cellulose, etc.

SUMMARY OF FINDINGS

INSPECTION PHASE 1.

FACILITY NAME: Howe Mental Health Center
CDB BUILDING NAME & NUMBER: Power Plant CDB Building No.: BB008
CDB PROJECT NUMBER: 910-010-010

HOMOGENEOUS AREA	DESCRIPTION	QUANTITY	NUMBER SAMPLES RECOMMENDED	REMOVAL COST ESTIMATE
TBA	Boiler Insulation	13,824	7	\$ 177,638
TFA	Flue Insulation	576	3	\$
TFB	Flue Insulation #2	1,152	5	\$
TJA	Cementitious Fitting on Electrical Conduit	42	3	\$
TJB	Cementitious Pipe Fitting	286	3	\$
TJC	Cementitious Fitting on Fiberglass Insulation	8	3	\$
TJD	Air Cell Pipe Fitting	180	3	\$
TPA	Cementitious Pipe Insulation	400	3	\$
TPB	Air Cell Pipe Insulation	460	1	\$
				\$
TTA	Cementitious Insulation on Water Softener Tank	25	3	\$
TTB	Cementitious Insulation on Holding Tank	160	3	\$

INSPECTION PHASE 1.

FACILITY NAME: Howe Mental Health Center
 CDB BUILDING NAME & NUMBER: Power Plant CDB Building No.: BB008
 CDB PROJECT NUMBER: 910-010-010

HOMOGENEOUS AREA	DESCRIPTION	QUANTITY	NUMBER SAMPLES W/RECOMMENDED	REMOVAL COST ESTIMATE
TTC	Cementitious Insulation on Hot Water Tank #1 and #2	96	3	\$
TTD	Cementitious Insul. on Cond. Tank #1 & #2	96	3	\$
TTE	Cementitious Insulation on Oil Heating Converter	100	3	\$
TTF	Feed Water Tank	427	3	\$
MFA	9 x 9 Vinyl Tiles and Mastic	240	Assume	\$
MMA	Vibration Damper Insulation	40	3	\$
MMB	Exhaust Backdraft Damper Insulation	15	Assume	\$
MMC	Boiler Gaskets	5	3	\$
MMD	Boiler Gaskets #2	10	3	\$
MSA	Asbestos Stock-Pile	25	Assume	\$
				\$
				\$

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.:

**BB008
901-010-010**

USER AGENCY:

Department of Mental Health

USER LOCATION:

**(070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477**

BUILDING NAME:

Power Plant

INSPECTORS:

**Vahooman Mirkhaef
Jay Fox
David Sloman**

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
TBA	Boiler Insulation		3		
TFA	Flue Insulation		3		
TFB	Flue Insulation #2		3		
TJA	Cementitious Fitting on Electrical Conduit		3		
TJB	Cementitious Pipe Fitting		3		
TJC	Cementitious Fitting on Fiberglass Insulation		3		

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.:

BB008
901-010-010

USER AGENCY:

Department of Mental Health

USER LOCATION:

(070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477

BUILDING NAME:

Power Plant

INSPECTORS:

Vahooman Mirkhaef
Jay Fox
David Sioman

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
TJD	Air Cell Pipe Fitting		3		
TPA	Cementitious Pipe Insulation		3		
TPB	Air Cell Pipe Insulation		1		
TTA	Cementitious Insulation on Water Softener Tank		3		
TTB	Cementitious Insulation on Holding Tank		3		
TTC	Cementitious Insulation on Hot Water Tank		3		

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.:

**BB008
901-010-010**

USER AGENCY:

Department of Mental Health

USER LOCATION:

**(070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477**

BUILDING NAME:

Power Plant

INSPECTORS:

**Vahooman Mirkhaef
Jay Fox
David Sloman**

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
TTD	Cementitious Insulation on Condensate Tanks		3		
TTE	Cementitious Insulation on Oil Heating Convert		3		
TTF	Feed Water Tank Insulation		3		
MMC	Boiler Gaskets		3		
MMD	Boiler Gaskets #2		3		
MFA	9 X 9 Vinyl Tile and Mastic	X			

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.:

**BB008
901-010-010**

USER AGENCY:

Department of Mental Health

USER LOCATION:

**(070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477**

BUILDING NAME:

Power Plant

INSPECTORS:

**Vahooman Mirkhaef
Jay Fox
David Sloman**

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
MMB	Exhaust Backdraft Damper Insulation	X			
MSA	Asbestos Stockpile	X			
MMA	Vibration Damper Insulation			3	

FORM 6 SUMMARY OF FINDINGS

MANAGEMENT PLAN PHASE III

BUILDING NAME

Power Plant No. 8

LIST IN ORDER OF RESPONSE ACTION NUMBER

C.D.B. BUILDING NUMBER

BB008

HOMOGENEOUS AREA	MATERIAL DESCRIPTION	ACM CONTENT (%)			DAMAGE ASSESSMENT							RESPONSE ACTION		
		CHRYSOLE	AMOSITE	OTHER	ASSUMED ACM	NO DAMAGE	SALIENT	DAMAGE	SIGNIFICANT DAMAGE	NO POTENTIAL DAMAGE	POTENTIAL DAMAGE		POTENTIAL SIGNIFICANT DAMAGE	NUMBER
TBA	Boiler Insulation	10%											8	O&M
TFA	Flue Insulation	30%	Trace						X				8	O&M
TFB	Flue Insulation	40%							X				8	O&M
TJA	Cem. Fitting @ Electrical	30%							X				8	O&M
TJB	Cem. Fit. @ Cem. Insul.	5-10%	0-20%						X				8	O&M
TJC	Cem. Fit. @ Fiber. Insul.	20%	0-10%						X				8	O&M
TJD	Cem. Fittings @ Air Cell	5-25%							X				8	O&M
TPA	Cementitious Pipe Insul.	5%	10%						X				8	O&M
TPB	Air Cell Insulation	5%							X				8	O&M
TTA	Cem. Insul. @ Water Soft.	20%							X				8	O&M
TTB	Cem. Insul. @ Holding Tank	20-30%	0-10%						X				8	O&M
TTC	Cem. Insul. @ Tank #1 & #2	0-25%	0-20%						X				7	O&M
TTD	Cem. Insul. @ Cond. Tanks	30%	Trace						X				8	O&M
TTE	Cem. Insul @ Heat. Convert	0-5%	25-30%						X				8	O&M
TFE	Cem. Ins. @ Feed Wtr. Tank	10%	10%						X				8	O&M
TFF	Boiler Gaskets	60%							X				8	O&M
MMC	Boiler Gaskets #2	0-5%							X				8	O&M
MMD	9"x9" Vinyl Tile w/Mastic								X				8	O&M
MFA	Insulation Exhaust Damper								X				8	O&M
MMB	25 Boxes of ACM								X				3	O&M

ASBESTOS MANAGEMENT PLAN REPORT

CDB PROJECT NUMBER - 910-010-010

HOWE MENTAL HEALTH CENTER
DEPARTMENT OF MENTAL HEALTH AND
DEVELOPMENTAL DISABILITIES
OAK HALL #20
C.D.B. BUILDING #BB020
7600 WEST 183RD STREET
TINLEY PARK, IL 60477

STATE OF ILLINOIS

CAPITAL DEVELOPMENT BOARD

SPRINGFIELD, ILLINOIS

BY:

FOX & FOX ARCHITECTS & ENGINEERS
330 SOUTH WELLS STREET
CHICAGO, IL 60606
(312) 427-5592

DATE: OCT. 10, 1994

DATE SIGNED: 10/26/94

EXP. DATE: 11/30/96

IDPH LICENSE: 100-0471



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CDB BUILDING NO.: BB020
Oak Hall #20

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- III. Narrative Building Description
- IV. Summary of Findings
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- VI. Floor Plans
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- VIII. TJB - Cementitious Fittings At cementitious Pipe Insulation
- IX. TJC - Cementitious Fittings at Air Cell Pipe Insulation
- X. TPA - Cementitious Pipe Insulation
- XI. TPB - Air Cell Pipe Insulation
- XII. TPC - Cementitious Insulation at Electrical Conduit
- XIII. TTA - Cementitious Insulation at Booster Tank
- XIV. MFA - 12" x 12" Floor Tile and Mastic
- XV. MMA - Wood Fire Door Insulation
- XVI. MMB - Metal Fire Door Insulation
- XVII. MMC - Vibration Damper Insulation
- XVIII. MMD - Fire Damper Insulation
- XIX. MME - Insulation at Exhaust Back-Draft Damper
- XX. MMF - Carpet with Mastic
- XXI. MTA - Transite Pipe
- XXII. SPA - Plaster Walls and Ceilings
- XXIII. TFA - Flue Insulation for Electrical Generator
- XXIV. TJA - Cementitious Fitting on Fiberglass Pipe
- XXV. MCA - 2 x 2 Ceiling Tile
- XXVI. MCB - 1 x 1 Tile with Holes
- XXVII. MCC - 1 x 1 Acoustical Tile with Fissure Pattern
- XXVIII. MCD - 1 x 1 Acoustical Tile - Speckled
- XXIX. MCE - 1 x 1 Acoustical Tile Non-Random Holes
- XXX. MCF - 1 x 1 Inlet Acoustical Tile

- XXXI. Cost Summary

- XXXII. Chain of Custody

- XXXIII. Licenses and Accreditations

- XXXIV. Operation and Maintenance Plan

CAPITAL DEVELOPMENT BOARD BUILDING INVENTORY FORM 3

C.D.B. BUILDING NUMBER: BB020 BUILDING NAME: Oak Hall

USING AGENCY: 321 Dept of Mental Health/DD LOCATION: 185 Tinley Park MHC (SEE 070)

BLDG. ADDRESS: 7400 West 183rd Street CITY: Tinley Park

ZIP: 60477 COUNTY: Cook HOUSE/SENATE DISTRICT: 037/19

YEAR CONSTRUCTED: 1957 GROSS SQ. FT. 78,953 TOTAL FLOORS: 5 FLOORS BELOW GRADE: 1

USE OF BUILDING WHEN CONSTRUCTED(C): Health Care CURRENT PRIMARY USE (P): Health Care CURRENT SECONDARY USE (S): Business

PREDOMINATE CONSTRUCTION TYPE: Brick

FOR USING AGENCY USE ONLY: _____

BUILDING NOTES: _____

(FOR C.D.B. USE ONLY)
ASBESTOS STATUS: _____

FORM 4

INTRODUCTION TO THE MANAGEMENT PLAN

A Policy Statement

This Management Plan is intended to be a working document which will serve as a guide to staff, employees, occupants and visitors in minimizing the risk of exposure to asbestos fibers. The State of Illinois recognizes the serious health hazards associated with asbestos fibers. The State has conducted an inspection of this facility in order to determine whether asbestos is present, and if so, where the asbestos is located.

This Management Plan sets forth the recommended response actions for the ACM (asbestos containing material) within this facility. Further, where required, an Operations & Maintenance (O & M) Program has been established which will be implemented by facility staff.

This Plan has been reviewed by CDB, the Contracting Agency and the Using Agency and represents the policies and procedures to be implemented with respect to any ACM within this facility.

Dated: _____

Capital Development Board Representative

Dated: _____

Agency (Designated Person)

Dated: 10/26/94



Management Planner

The data linking asbestos exposure to mesothelioma is based upon many of the same epidemiological studies of workers that demonstrated an association between asbestos exposure and lung cancer. The findings are somewhat different than for lung cancer. Lower non-occupational exposures have also been associated with mesothelioma in addition to occupational exposure. Therefore, lower levels of exposure to asbestos as found in some non-occupational settings may give rise to mesothelioma. Secondly, the nature of the dose response relationship may be different from that of lung cancer. The risk continues to increase as the number of years since first exposure increases. In many cases, a latent period of more than 40 years has been described.

Gastrointestinal Cancer - Several of the epidemiological studies of workers occupationally exposed to asbestos have shown increased risks of gastrointestinal cancer including cancers of the colon, rectum, stomach and esophagus. The risk, however, does not appear to be as great as for lung cancer. To date, no association has been found between asbestos in drinking water and gastrointestinal cancer.

Asbestos Related Pleural Disease - This category of health effects includes fibrous and sometimes calcified plaques as well as diffuse thickening of the pleura and the pleural effusion. These are non-cancerous changes of the membranes surrounding the lungs and commonly occur many years after asbestos exposure. The presence of plaques suggests prior asbestos exposure but usually does not cause any symptoms or respiratory impairment.

Asbestosis - Asbestosis is a disabling lung disorder consisting of generalized scarring of the lungs which causes shortness of breath on exertion. Asbestosis has been described almost exclusively in workers with occupational exposure to high concentrations of asbestos-containing dusts. In asbestosis, there appears to be a very strong dose response relationship in that the greater the concentration of asbestos fibers, and the longer the duration of exposure, the greater the likelihood and severity of asbestosis.

As with the other asbestos related health effects, there is usually a time lag or latent period of several years before the development of disease. Once acquired, asbestosis tends to progress slowly, sometimes for years after asbestos exposure has ended.

C.D.B. BUILDING NO.: BB020

BUILDING NAME: OAK HALL, BUILDING NO. 20

Oak Hall was constructed in 1957. Major renovation work to the building was completed in 1975, which included exterior, interior and mechanical and electrical work. The kitchen was remodeled in 1990.

The building has 5 floors; a basement floor, first floor, second floor, and a penthouse and upper penthouse floor. The building has 78,953 square feet. A crawl space is located below the cooking kitchen at the basement floor plan. The crawl space feeds utility lines to the kitchen equipment.

The building provides treatment, housing and care to the patients at the Tinley Park Mental Health Center.

The building is framed in cast in place concrete columns, beams and floors. The exterior of the building is face-brick, concrete columns and window wall.

The existing roof has been recently replaced and appears to be in good condition.

The mechanical systems are from the original date of construction. Steam, hot water and chilled water feed heating and cooling coils located in the HVAC duct system that supplies conditioned air throughout the building. Radiator and unit heaters are fed by the hot water system.

In 1990, an asbestos abatement project was performed in the crawl space of the kitchen to remove all ACM insulation and fittings due to the renovation of the kitchen area.

Asbestos Containing Materials were found in this building. Friable asbestos poses a health hazard when it becomes airborne. Some materials were assumed to contain asbestos and were not sampled; no judgement regarding their relative risk to health can be made at this time.

In addition to asbestos containing insulation, this building contained other insulating materials such as fiberglass, cellulose, etc.

SUMMARY OF FINDINGS

INSPECTION PHASE 1.

FACILITY NAME: Howe Mental Health Center

CDB BUILDING NAME & NUMBER: Oak Hall #20 - CDB Building No.: BB020

CDB PROJECT NUMBER: 910-010-010

HOMOGENEOUS AREA	DESCRIPTION	QUANTITY	NUMBER SAMPLES RECOMMENDED	REMOVAL COST ESTIMATE
SPA	Plaster Walls & Ceiling	87,100	7	\$1,210,690
TDA	Cementitious Insulation on ducts	195	3	\$
TFA	Flue Insulation for Electric Generator	50	3	\$
TJA	Cementitious Fittings at Fiberglass Fitting	2,000	5	\$ 201,820
TJB	Cementitious Pipe Fittings	1,200	5	\$ 121,080
TJC	Fitting on Air Cell Pipe	10	3	\$
TPA	Cementitious Pipe Insulation	2,600	5	\$ 115,024
TPB	Air Cell Pipe Insulation	32	1	\$
TPC	Cementitious Insulation on Electrical Conduit	64	3	\$
TTA	Cementitious Material on Booster Pump	512	3	\$
MCA	2 X 2 Ceiling Tile	1,540	5	\$
MCB	1 X 1 Tile with Holes	56,500	7	\$ 159,000

INSPECTION PHASE 1.

FACILITY NAME: Howe Mental Health Center

CDB BUILDING NAME & NUMBER: Oak Hall #20 - CDB Building No.: BB020

CDB PROJECT NUMBER: 910-010-010

HOMOGENEOUS AREA	DESCRIPTION	QUANTITY	NUMBER SAMPLES RECOMMENDED	REMOVAL COST ESTIMATE
MCC	1 X 1 Acoustical Tile with Fissure Pattern	864	3	\$
MCD	1 X 1 Acoustical Tile - Speckled	192	3	\$
MCE	1 X 1 Acoustical Tile - Non-Random Holes	192	3	\$
MCF	1 X 1 Inlet Acoustical Tile	768	3	\$
MFA	12 X 12 Vinyl Floor Tile and Mastic	144	Assume	\$
MHA	Wood Fire Door	2	Assume	\$
MHB	Metal Fire Door	12	Assume	\$
MHC	Vibration Damper Insulation	8	3	\$
MHD	Fire Damper Insulation	3	3	\$
MHE	Exhaust Backdraft Damper	32	3	\$
MMF	Carpet with Mastic	432	Assume	
MTA	Transite Pipe	16	Assume	

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.: BB020
901-010-010

USER AGENCY: Department of Mental Health

USER LOCATION: (070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477

BUILDING NAME: Oak Hall # 20

INSPECTORS: Jay Fox
Vahooman Mirkhaef
David Sloman

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
TDA	Cementitious Insulation on Ducts		3		
TJB	Cementitious Pipe Fitting		3		
TJC	Fitting On Air Cell Pipe		3		
TPA	Cementitious Pipe Insulation		3		
TPB	Air Cell Pipe Insulation		1		
TPC	Cementitious Insulation on Electrical Conduit		3		

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.: BB020
901-010-010

USER AGENCY: Department of Mental Health

USER LOCATION: (070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477

BUILDING NAME: Oak Hall # 20

INSPECTORS: Jay Fox
Vahooman Mirkhaef
David Sloman

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
TTA	Cementitious Material on Booster Pump		3		
MFA	12 X 12 Vinyl Floor Tile and Mastic	X			
MMA	Wood Fire Door	X			
MMB	Metal Fire Door	X			
MMC	Vibration Damper Insulation	X			
MMD	Fire Damper Insulation	X			

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.:

BB020
901-010-010

USER AGENCY:

Department of Mental Health

USER LOCATION:

(070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477

BUILDING NAME:

Oak Hall # 20

INSPECTORS:

Jay Fox
Vahooman Mirkhaef
David Sloman

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
MME	Exhaust Backdraft Damper	X			
MMF	Carpet Mastic	X			
MTA	Transite Pipe	X			
SPA	Plaster Walls & Ceiling			7	
TFA	Flue Insulation for Electrical Generator			3	
TJA	Cementitious Fitting on Fiberglass Pipe			3	

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.:

**BB020
901-010-010**

USER AGENCY:

Department of Mental Health

USER LOCATION:

**(070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477**

BUILDING NAME:

Oak Hall # 20

INSPECTORS:

**Jay Fox
Vahooman Mirkhaef
David Sloman**

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
MCA	2 X 2 Ceiling Tile			3	
MCB	1 X 1 Tile with Holes			3	
MCC	1 X 1 Acoustical Tile with Fissure Pattern			3	
MCD	1 X 1 Acoustical Tile- Speckled			3	
MCE	1 X 1 Acoustical Tile Non-Random Holes			3	
MCF	1 X 1 Inlet Acoustical Tile			3	

FORM 6 - SUMMARY OF FINDINGS

MANAGEMENT PLAN PHASE III

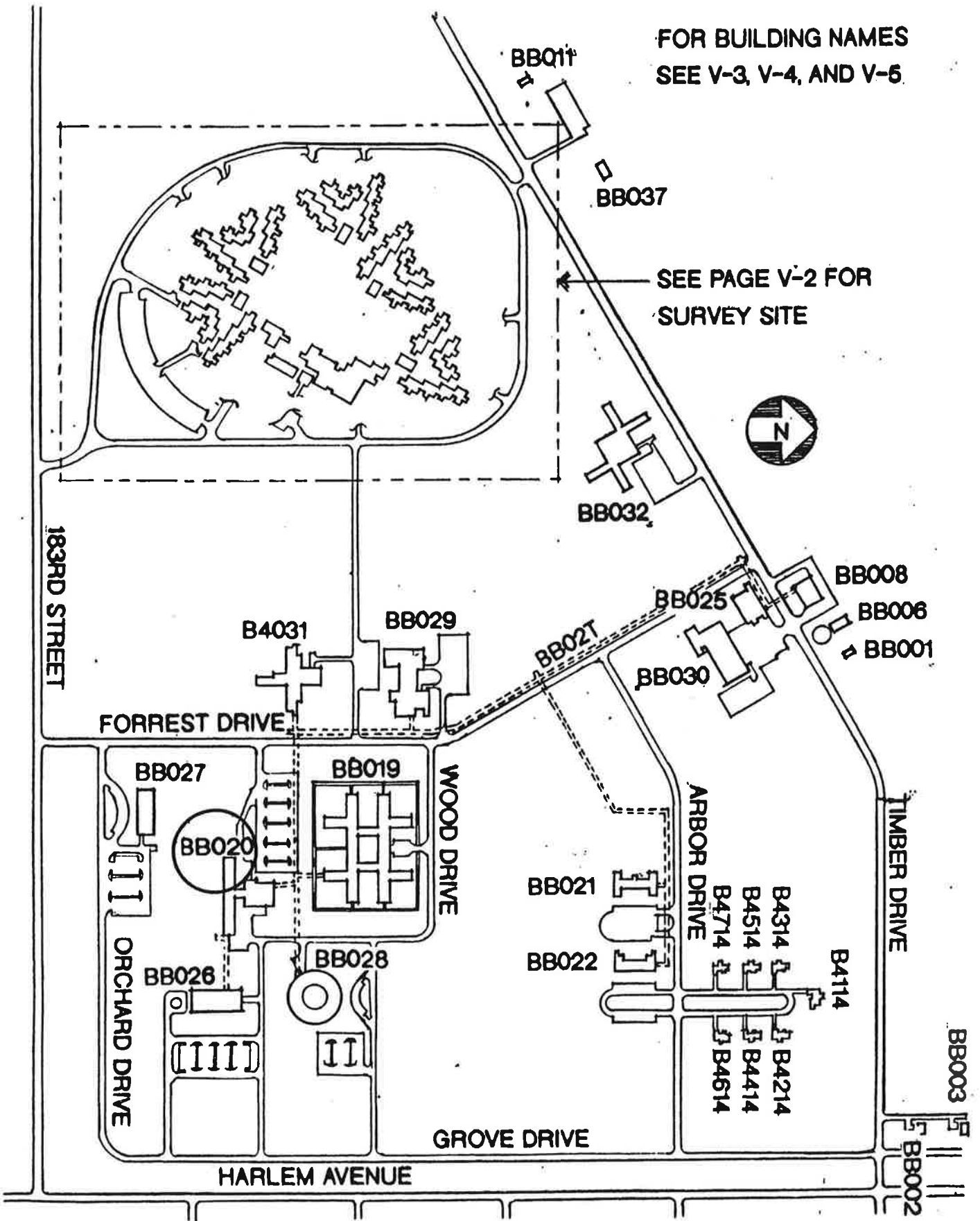
BUILDING NAME Oak Hall #20

LIST IN ORDER OF RESPONSE ACTION NUMBER

C.D.B. BUILDING NUMBER BB020

HOMOGENEOUS AREA	MATERIAL DESCRIPTION	ACM CONTENT (%)			DAMAGE ASSESSMENT							RESPONSE ACTION	
		CHRYSOTILE	AMOSITE	OTHER	NO DAMAGE	SALIENT DAMAGE	SIGNIFICANT DAMAGE	NO POTENTIAL DAMAGE	POTENTIAL SIGNIFICANT DAMAGE	POTENTIAL SIGNIFICANT DAMAGE	NUMBER		DESCRIPTION (I.E. REMOVE, REPAIR, ENCLOSE, ENCAPSULATE, OR O&M)
TDA	Cem. Insulation @ Ducts	20%										6	O&M
TJB	Cem. Fittings @ Cem. Ins.	5-10%	0-10%									8	O&M
TJC	Cem. Fittings @ Air Cell In.	5-15%	5%									8	O&M
TPA	Cem. Pipe Insulation		10%									8	O&M
TPB	Air Cell Pipe Insulation	5%	5%									8	O&M
TPC	Cem. Ins. @ Ele. Conduit	15%										8	O&M
TTA	Cem. Ins. @ Booster Tank	0-10%	5-10%									8	O&M
MFA	12"X12" Floor Tile & Mastic											8	O&M
MMA	Wood Fire Door Insulation											8	O&M
MMB	Metal Fire Door Insulation											8	O&M
MMC	Vibration Damper Ins.											8	O&M
MMD	Fire Damper Insulation											8	O&M
MME	Ins. @ Exhaust Dampers											8	O&M
MMF	Carpet with Mastic											8	O&M
MTA	Transite Pipe											8	O&M

FOR BUILDING NAMES
SEE V-3, V-4, AND V-5



MANAGEMENT PLAN PHASE III
 LIST IN ORDER OF RESPONSE ACTION NUMBER

FORM 6 - SUMMARY OF FINDINGS

BUILDING NAME

Residence Units 205, 206 & 207

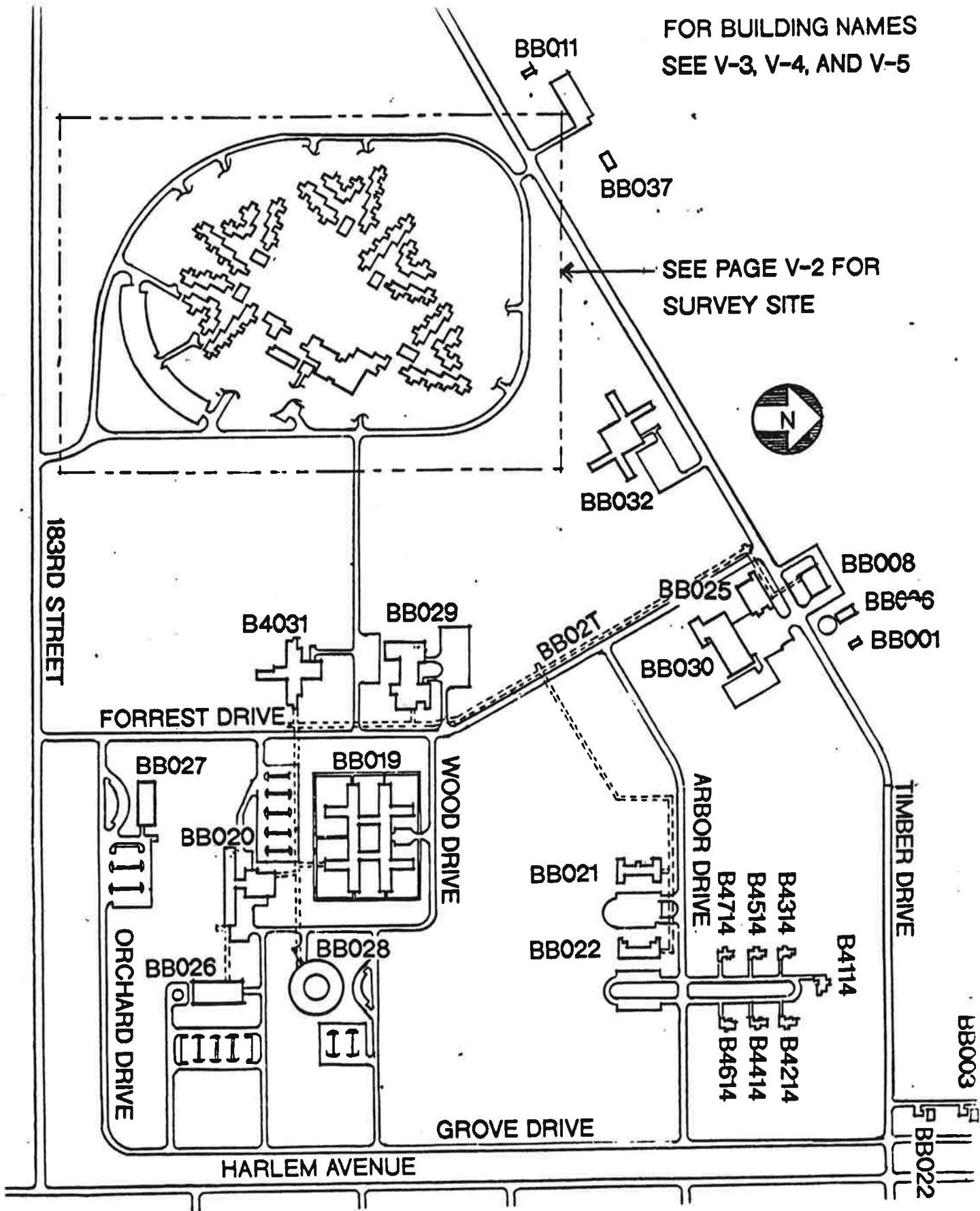
C.D.B. BUILDING NUMBER & B4205, B4206 & B4207

MATERIAL DESCRIPTION	ACM CONTENT (%)			ASSUMED ACM	DAMAGE ASSESSMENT						RESPONSE ACTION	DESCRIPTION (IE REMOVE, REPAIR, ENCLOSE, ENCAPSULATE, OR DEM)
	CHRYBOTILE	AMOSITE	OTHER		NO DAMAGE SALIENT DAMAGE	SIGNIFICANT DAMAGE	NO POTENTIAL DAMAGE	POTENTIAL DAMAGE	POTENTIAL SIGNIFICANT DAMAGE	NUMBER		
MFA 1 x 1 Floor Tile and Mastic				X						8	O&M	
MMB Wood Fire Door Insulation				X			X			8	O&M	
MMC Metal Fire Door Insulation				X			X			8	O&M	
MMD Insulation at Back-Draft Dampers				X			X			8	O&M	
MME Insulation at Fire Dampers				X			X			8	O&M	
MMP Built-Up Roof, Flashings & Mastic				X			X			8	O&M	
MVA Under Floor Duct (Transite)				X			X			8	O&M	
MVB Transite Light Covers				X			X			8	O&M	

912 CM 1\91

B-6.2

FOR BUILDING NAMES
SEE V-3, V-4, AND V-5



ASBESTOS MANAGEMENT PLAN REPORT

CDB PROJECT NUMBER - 910-010-010

HOWE MENTAL HEALTH CENTER
DEPARTMENT OF MENTAL HEALTH AND
DEVELOPMENTAL DISABILITIES
HICKORY HALL #21
C.D.B. BUILDING #BB021
7600 WEST 183RD STREET
TINLEY PARK, IL 60477

STATE OF ILLINOIS

CAPITAL DEVELOPMENT BOARD

SPRINGFIELD, ILLINOIS

BY:
FOX & FOX ARCHITECTS & ENGINEERS
330 SOUTH WELLS STREET
CHICAGO, IL 60606
(312) 427-5592

DATE: OCT. 10, 1994

DATE SIGNED: 10/26/94

EXP. DATE: 11/30/96

IDPH LICENSE: 100-0471

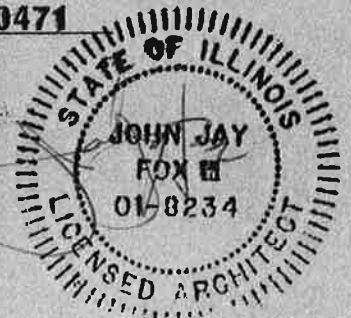


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- III. Narrative Building Description
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- VII. TJA - Cementitious Pipe Fittings at Cementitious Insulation
- VIII. TJB - Cementitious Pipe Fittings on Air Cell Pipe
- IX. TJC - Cementitious Pipe Fitting on Fiberglass Pipe
- X. TPA - Cementitious Pipe Insulation
- XI. TPB - Air Cell Pipe Insulation
- XII. TPC - Cementitious Insulation on Electrical Conduit
- XIII. TTA - Booster Tank Insulation
- XIV. MFA - Vinyl Floor Sheeting and Mastic
- XV. MFB - 9 x 9 Floor Tile and Mastic
- XVI. MFC - 1 x 1 Floor Tile and Mastic
- XVII. MMA - Built-Up Roof and Flashings
- XVIII. MMB - Metal Fire Doors
- XIX. MMC - Cementitious Back-Draft Damper Insulation
- XX. MMD - Fire Damper Insulation
- XXI. MME - Mastic Under Carpeting
- XXII. MMF - Mastic Under Rubberized Floor
- XXIII. SPA - Plastic Ceiling and Walls
- XXIV. SPB - Plaster Walls (1983)
- XXV. SPC - Plaster Walls (1986)
- XXVI. SPD - Plaster Walls (1984)
- XXVII. MCA - 1 x 1 Ceiling Tile Fissured
- XXVIII. MCB - 1 x 1 Ceiling Tile Random Holes
- XXIX. MCC - 2 x 4 Ceiling Tile
- XXX. Cost Summary
- XXXI. Chain of Custody
- XXXII. Licenses and Accreditations
- XXXIII. Operation and Maintenance Plan

CAPITAL DEVELOPMENT BOARD BUILDING INVENTORY FORM 3

C.D.B. BUILDING NUMBER: BB021 BUILDING NAME: Hickory Hall

USING AGENCY: 321 Dept of Mental Health/DD LOCATION: 070 Howe DEVLPMNTL CTR (See 185)

BLDG. ADDRESS: 7600 West 183rd Street CITY: Tinley Park

ZIP: 60477 COUNTY: Cook HOUSE/SENATE DISTRICT: 037/19

YEAR CONSTRUCTED: 1958 GROSS SQ. FT. 27,517 TOTAL FLOORS: 3 FLOORS BELOW GRADE: 1

USE OF BUILDING WHEN CONSTRUCTED(C): Health Care CURRENT PRIMARY USE (P): Business CURRENT SECONDARY USE (S): Health Care

PREDOMINATE CONSTRUCTION TYPE: Brick

FOR USING AGENCY USE ONLY: _____

BUILDING NOTES: _____

(FOR C.D.B. USE ONLY)
ASBESTOS STATUS: _____

FORM 4

INTRODUCTION TO THE MANAGEMENT PLAN

A. Policy Statement

This Management Plan is intended to be a working document which will serve as a guide to staff, employees, occupants and visitors in minimizing the risk of exposure to asbestos fibers. The State of Illinois recognizes the serious health hazards associated with asbestos fibers. The State has conducted an inspection of this facility in order to determine whether asbestos is present, and if so, where the asbestos is located.

This Management Plan sets forth the recommended response actions for the ACM (asbestos containing material) within this facility. Further, where required, an Operations & Maintenance (O & M) Program has been established which will be implemented by facility staff.

This Plan has been reviewed by CDB, the Contracting Agency and the Using Agency and represents the policies and procedures to be implemented with respect to any ACM within this facility.


Dated: _____

Capital Development Board Representative

Dated: _____

Agency (Designated Person)

Dated: 10/26/94



Management Planner

The data linking asbestos exposure to mesothelioma is based upon many of the same epidemiological studies of workers that demonstrated an association between asbestos exposure and lung cancer. The findings are somewhat different than for lung cancer. Lower non-occupational exposures have also been associated with mesothelioma in addition to occupational exposure. Therefore, lower levels of exposure to asbestos as found in some non-occupational settings may give rise to mesothelioma. Secondly, the nature of the dose response relationship may be different from that of lung cancer. The risk continues to increase as the number of years since first exposure increases. In many cases, a latent period of more than 40 years has been described.

Gastrointestinal Cancer - Several of the epidemiological studies of workers occupationally exposed to asbestos have shown increased risks of gastrointestinal cancer including cancers of the colon, rectum, stomach and esophagus. The risk, however, does not appear to be as great as for lung cancer. To date, no association has been found between asbestos in drinking water and gastrointestinal cancer.

Asbestos Related Pleural Disease - This category of health effects includes fibrous and sometimes calcified plaques as well as diffuse thickening of the pleura and the pleural effusion. These are non-cancerous changes of the membranes surrounding the lungs and commonly occur many years after asbestos exposure. The presence of plaques suggests prior asbestos exposure but usually does not cause any symptoms or respiratory impairment.

Asbestosis - Asbestosis is a disabling lung disorder consisting of generalized scarring of the lungs which causes shortness of breath on exertion. Asbestosis has been described almost exclusively in workers with occupational exposure to high concentrations of asbestos-containing dusts. In asbestosis, there appears to be a very strong dose response relationship in that the greater the concentration of asbestos fibers, and the longer the duration of exposure, the greater the likelihood and severity of asbestosis.

As with the other asbestos related health effects, there is usually a time lag or latent period of several years before the development of disease. Once acquired, asbestosis tends to progress slowly, sometimes for years after asbestos exposure has ended.

Narrative

Hickory Hall was constructed in 1958. Minor renovation work has been done to the building over the years.

The building has three floors; basement, first floor and second floor. The building has 27,517 square feet.

The building provides treatment, housing and care to the patients at the Howe Mental Health Center. The building is presently not in use for patients.

The exterior of the building is constructed of face-brick, concrete block back-up and windows.

The existing roof is a built-up roof with flashing and appears to need maintenance work.

The mechanical systems are from the original date of construction. High pressure steam from the underground tunnel system is converted to low pressure steam and hot water and fed through the building to radiators and unit heaters. A HVAC system provides ventilation to the kitchen and toilet areas in the building.

To the best of our knowledge, no asbestos abatement work has been performed in the building.

Asbestos was detected in the pipe, fitting and tank insulation primarily exposed in the mechanical room. In its present condition, it poses a low hazard.

SUMMARY OF FINDINGS

INSPECTION PHASE 1.

FACILITY NAME: Howe Mental Health Center

CDB BUILDING NAME & NUMBER: Hickory Hall #21 - CDB Building No.: BB021

CDB PROJECT NUMBER: 910-010-010

HOMOGENEOUS AREA	DESCRIPTION	QUANTITY	NUMBER SAMPLES MMENDED	REMOVAL COST ESTIMATE
SPA	Plaster Ceiling and Walls	56,256	7	\$ 781,958
SPB	Plaster Walls (1983)	2,944	5	\$ 40,922
SPC	Plaster Walls (1986)	256	3	\$
SPD	Plaster Walls (1984)	512	3	\$
TJA	Cementitious Pipe Fitting Insul. on Pipe	200	3	\$
TJB	Cementitious Pipe Fitting Insul. on Pipe	512	3	\$
TJC	Cementitious Pipe Fitting Insul. on Pipe	4	3	\$
TTA	Booster Tank Insulation	175	3	\$
TPA	Cementitious Pipe Insulation	792	3	\$
TPB	Air Cell Pipe Insulation	512	1	\$
TPC	Cementitious Insulation on Electrical Conduit	16	3	\$
MCA	1 X 1 Ceiling Tile Fissured	8,260	7	\$ 49,560

INSPECTION PHASE 1.

FACILITY NAME: Howe Mental Health Center
 CDB BUILDING NAME & NUMBER: Hickory Hall #21 - CDB Building No.: BB021
 CDB PROJECT NUMBER: 910-010-010

HOMOGENEOUS AREA	DESCRIPTION	QUANTITY	NUMBER SAMPLES MMENDED	REMOVAL COST ESTIMATE
MCB	1 X 1 Ceiling Tile Random Holes	8,255	7	\$ 49,530
MCC	2 X 4 Ceiling Tile	192	3	\$
MFA	Vinyl Floor Sheeting and Mastic	6,016	Assume	\$
MFB	9 x 9 Floor Tile and Mastic	3,424	Assume	\$
MFC	1 x 1 Floor Tile and Mastic	6,768	Assume	\$
MMA	Built-Up Roof and Flashings	9,175	Assume	\$
MMB	Metal Fire Doors	14 each	Assume	\$
MMC	Cementitious Backdraft Damper Insulation	10	3	\$
MMD	Fire Damper Insulation	5	3	\$
MME	Mastic Under Carpeting	10,832	Assume	\$
MMF	Mastic Under Rubberized	400	Assume	\$
				\$

*

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.: BB021
901-010-010

USER AGENCY: Department of Mental Health

USER LOCATION: (070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477

BUILDING NAME: Personnel Building # 2

INSPECTORS: Vahooman Mirkhaef
Jay Fox
David Sloman

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
TJA	Cementitious Pipe Fittings		3		
TJB	Cementitious Pipe Fitting on On Air Cell Pipe		3		
TJC	Cementitious Pipe Fitting on Fiberglass Pipe		3		
TPA	Cementitious Pipe Insulation		3		
TPB	Air Cell Pipe Insulation		1		
TPC	Cementitious Insulation on Electrical Conduit		3		

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.: BB021
901-010-010

USER AGENCY: Department of Mental Health

USER LOCATION: (070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477

BUILDING NAME: Personnel Building #2

INSPECTORS: Vahooman Mirkhaef
Jay Fox
David Sloman

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
TTA	Booster Tank Insulation		3		
MFA	Vinyl Floor Sheeting and Mastic	X			
MFB	9 X 9 Floor Tile/ Mastic	X			
MFC	1 X 1 Floor Tile and Mastic	X			
MMA	Built-Up Roof and Flashings	X			
MMB	Metal Fire Doors	X			

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.:

**BB021
901-010-010**

USER AGENCY:

Department of Mental Health

USER LOCATION:

**(070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477**

BUILDING NAME:

Personnel Building #2

INSPECTORS:

**Vahooman Mirkhaef
Jay Fox
David Sloman**

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
MMC	Cementitious Backdraft Damper Insulation	X			
MMD	Fire Damper Insulation	X			
MME	Mastic Under Carpeting	X			
MMF	Mastic Under Rubberized Floor	X			
SPA	Plaster Ceiling and Walls			7	
SPB	Plaster Walls (1983)			5	
SPC	Plaster Walls (1986)			3	

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.:

**BB021
901-010-010**

USER AGENCY:

Department of Mental Health

USER LOCATION:

**(070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477**

BUILDING NAME:

Personnel Building #2

INSPECTORS:

**Vahooman Mirkhaef
Jay Fox
David Sloman**

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
SPD	Plaster Walls (1984)			3	
MCA	1 X 1 Ceiling Tile Fissured			3	
MCB	1 X 1 Ceiling Tile Random Holes			3	
MCC	2 X 4 Ceiling Tile			3	

FORM 6 - SUMMARY OF FINDINGS

MANAGEMENT PLAN PHASE III

BUILDING NAME

Hickory Hall No. 21

LIST IN ORDER OF RESPONSE ACTION NUMBER

C.D.B. BUILDING NUMBER

BB021

HOMOGENEOUS AREA	MATERIAL DESCRIPTION	ACM CONTENT (%)			NO DAMAGE	SALIENT DAMAGE	SIGNIFICANT DAMAGE	NO POTENTIAL DAMAGE	POTENTIAL DAMAGE	POTENTIAL SIGNIFICANT DAMAGE	DAMAGE ASSESSMENT	
		CHRYSOTILE	AMOSITE	OTHER							ASSUMED ACM	RESPONSE ACTION
TJA	Cem. Fittings @ Cem. Ins.	15%	Trace								8	O&M
TJB	Cem. Fittings @ Air Cell	25%					X				8	O&M
TJC	Cem. Fittings @ Fib. Ins.	25%					X				8	O&M
TPA	Cementitious Pipe Ins.	10-15%	10-15%				X				8	O&M
TPB	Air Cell Pipe Insulation	5%					X				8	O&M
TPC	Cem. Ins. @ Elec. Conduit	30%					X				8	O&M
TTA	Cem. Ins. @ Booster Tank		20%				X				8	O&M
MFA	Vinyl Sheeting & Mastic						X				8	O&M
MFB	9"x9" Vinyl Tile & Mastic						X				8	O&M
MFC	1'x1' Vinyl Tile & Mastic						X				8	O&M
MMA	Built-Up Roof & Flashings						X				8	O&M
MMB	Metal Fire Door Ins.						X				8	O&M
MMC	Ins. @ Exhaust Dampers						X				8	O&M
MMD	Ins. @ Fire Damper						X				8	O&M
MME	Mastic Under Carpeting						X				8	O&M
MMF	Mastic Under Rub. Floor						X				8	O&M

ASBESTOS MANAGEMENT PLAN REPORT

CDB PROJECT NUMBER - 910-010-010

HOWE MENTAL HEALTH CENTER
DEPARTMENT OF MENTAL HEALTH AND
DEVELOPMENTAL DISABILITIES
SYCAMORE HALL #22
C.D.B. BUILDING #BB022
7600 WEST 183RD STREET
TINLEY PARK, IL 60477

STATE OF ILLINOIS

CAPITAL DEVELOPMENT BOARD

SPRINGFIELD, ILLINOIS

BY:
FOX & FOX ARCHITECTS & ENGINEERS
330 SOUTH WELLS STREET
CHICAGO, IL 60606
(312) 427-5592

DATE: OCT. 10, 1994

DATE SIGNED: 10/20/94

EXP. DATE: 11/30/96

IDPH LICENSE: 100-0471

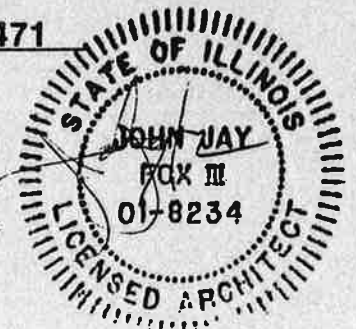
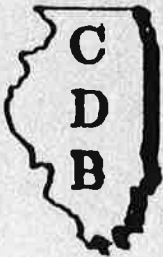


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Sycamore Hall No. 22

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- IV. Summary of Findings
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- VII. TJA - Cementitious Fitting on Hot Water Heating Pipe
- VIII. TJB - Cementitious Fittings on Air Cell Pipe
- IX. TJC - Cementitious Fitting on Fiberglass Pipe
- X. TPA - Cementitious Pipe Insulation
- XI. TPB - Air Cell Pipe Insulation
- XII. TPC - Cementitious Insulation on Electrical Conduit
- XIII. TTA - Booster Pump Tank Insulation
- XIV. MFA - 9 x 9 Floor Tile and Mastic
- XV. MFB - 1 x 2 Floor Tile and Mastic
- XVI. MFC - 1 x 1 Floor Tile and Mastic
- XVII. MMA - Wood Fire Door
- XVIII. MMB - Metal Fire Door
- XIX. MMC - Built-Up Roof and Flashings
- XX. MMD - Mastic Under Vinyl Floor
- XXI. SPA - Plastic Ceiling and Walls
- XXII. SPB - Cement Plaster on Ceiling
- XXIII. MCA - 1 x 1 Ceiling Tile - Fissured

- XXIV. Cost Summary

- XXV. Chain of Custody

- XXVI. Licenses and Accreditations

- XXVII. Operation and Maintenance Plan

The data linking asbestos exposure to mesothelioma is based upon many of the same epidemiological studies of workers that demonstrated an association between asbestos exposure and lung cancer. The findings are somewhat different than for lung cancer. Lower non-occupational exposures have also been associated with mesothelioma in addition to occupational exposure. Therefore, lower levels of exposure to asbestos as found in some non-occupational settings may give rise to mesothelioma. Secondly, the nature of the dose response relationship may be different from that of lung cancer. The risk continues to increase as the number of years since first exposure increases. In many cases, a latent period of more than 40 years has been described.

Gastrointestinal Cancer - Several of the epidemiological studies of workers occupationally exposed to asbestos have shown increased risks of gastrointestinal cancer including cancers of the colon, rectum, stomach and esophagus. The risk, however, does not appear to be as great as for lung cancer. To date, no association has been found between asbestos in drinking water and gastrointestinal cancer.

Asbestos Related Pleural Disease - This category of health effects includes fibrous and sometimes calcified plaques as well as diffuse thickening of the pleura and the pleural effusion. These are non-cancerous changes of the membranes surrounding the lungs and commonly occur many years after asbestos exposure. The presence of plaques suggests prior asbestos exposure but usually does not cause any symptoms or respiratory impairment.

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FORM 4

INTRODUCTION TO THE MANAGEMENT PLAN

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This Management Plan sets forth the recommended response actions for the ACM (asbestos containing material) within this facility. Further, where required, an Operations & Maintenance (O & M) Program has been established which will be implemented by facility staff.

This Plan has been reviewed by CDB, the Contracting Agency and the Using Agency and represents the policies and procedures to be implemented with respect to any ACM within this facility.


Dated: _____

Capital Development Board Representative

Dated: _____

Agency (Designated Person)

Dated: 10/20/94



Management Planner

C.D.B. BUILDING NO.: B8022

BUILDING NAME: SYCAMORE HALL, BUILDING NO. 22

Sycamore Hall was constructed in 1958. Minor renovation work has been done to the building over the years.

The building has three floors, basement, first floor and second floor. The building has 17,674 square feet.

The building provides treatment, housing and care to the patients at the Howe Mental Health Center. The building is presently not in use for patients.

The exterior of the building is constructed of face-brick, concrete block back-up and windows.

The existing roof is a built-up roof with flashing and appears to need maintenance work.

The mechanical systems are from the original date of construction. High pressure steam from the underground tunnel system is converted to low pressure steam and hot water and fed through the building to radiators and unit heaters. A HVAC system provides ventilation to the kitchen and toilet areas in the building.

To the best of our knowledge, no asbestos abatement work has been performed in the building.

Asbestos Containing Materials were found in this building. Friable asbestos poses a health hazard when it becomes airborne. Some materials were assumed to contain asbestos and were not sampled; no judgement regarding their relative risk to health can be made at this time.

In addition to asbestos containing insulation, this building contained other insulating materials such as fiberglass, cellulose, etc.

SUMMARY OF FINDINGS

INSPECTION PHASE I

FACILITY NAME: Howe Mental Health Center
CDB BUILDING NAME & NUMBER: Sycamore Hall
 CDB Building No.: BB022
CDB PROJECT NUMBER: 910-010-010

HOMOGENEOUS AREA	DESCRIPTION	QUANTITY	NUMBER SAMPLES RECOMMENDED	REMOVAL COST ESTIMATE
SPA	Plaster Ceiling and Walls	18576	7	\$258,206
SPB	Cement Plaster on Ceiling	1988	5	
TJA	Fittings on Hot Water Heating Pipe	232	3	
TJB	Fitting on Air Cell Pipe	3 ea	1	
TJC	Fitting on Fiberglass Pipe	1	3	
TPA	Insulation on Hot Water Heating Pipe	820	3	
TPB	Air Cell Pipe Insulation	6	3	
TPC	Cementitious Insul. of Electrical Conduit	16	3	

INSPECTION PHASE I

FACILITY NAME:

Howe Mental Health Center

CDB BUILDING NAME & NUMBER:

**Sycamore Hall
CDB Building No.: BB022**

CDB PROJECT NUMBER:

910-010-010

HOMOGENEOUS AREA	DESCRIPTION	QUANTITY	NUMBER SAMPLES RECOMMENDED	REMOVAL COST ESTIMATE
TTA	Booster Pump Tank Insulation	12	3	
MCA	1 X 1 Ceiling Tile - Fissured	6200	7	\$ 37,200
MFA	9 X 9 Floor Tile and Mastic	9918	Assume	\$ 84,799
MFB	1 X 2 Floor Tile and Mastic	100	Assume	
MFC	1 X 1 Floor Tile and Mastic	12848	Assume	\$109,850
MMA	Wood Fire Door	20 ea	Assume	
MMB	Metal Fire Door	1	Assume	
MMC	Built-up Roof and Flashings	8220	Assume	

INSPECTION PHASE I

FACILITY NAME:

Howe Mental Health Center

CDB BUILDING NAME & NUMBER:

**Sycamore Hall
CDB Building No.: BB022
910-010-010**

CDB PROJECT NUMBER:

HOMOGENEOUS AREA	DESCRIPTION	QUANTITY	NUMBER SAMPLES RECOMMENDED	REMOVAL COST ESTIMATE
MMD	Mastic Under Vinyl Floor	216	Assume	

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.: BB022
901-010-010

USER AGENCY: Department of Mental Health

USER LOCATION: (070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477

BUILDING NAME: Sycamore Hall

INSPECTORS: Jay Fox
Vahooman Mirkhaef
David Sloman

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
TJA	Cementitious Fitting on Hot Water Heating Pipe		3		
TJB	Cementitious Fitting on Air Cell Pipe		3		
TJC	Cementitious Fitting on Fiberglass Pipe		1		
TPA	Cementitious Insulation on Hot Water Heating Pipe		3		
TPB	Air Cell Pipe Insulation		1		
TPC	Cementitious Insulation on Electrical Conduit		3		

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.: BB022
901-010-010

USER AGENCY: Department of Mental Health

USER LOCATION: (070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477

BUILDING NAME: Sycamore Hall

INSPECTORS: Jay Fox
Vahooman Mirkhaef
David Sloman

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
TTA	Booster Pump Tank Insulation		3		
MFA	9 X 9 Floor Tile and Mastic	X			
MFB	1 X 2 Floor Tile and Mastic	X			
MFC	1 X 1 Floor Tile and Mastic	X			
MMA	Wood Fire Door	X			
MMB	Metal Fire Door	X			

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.: BB022
901-010-010

USER AGENCY: Department of Mental Health

USER LOCATION: (070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477

BUILDING NAME: Sycamore Hall

INSPECTORS: Jay Fox
Vahooman Mirkhaef
David Sloman

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
MMC	Built-up Roof and Flashings	X			
MMD	Mastic Under Vinyl Floor	X			
SPA	Plaster Ceiling and Walls			7	
SPB	Cement Plaster on Ceiling			5	
MCA	1 X 1 Ceiling Tile - Fissured			3	

FORM 6 SUMMARY OF FINDINGS

Sycamore Hall No. 22

BUILDING NAME

MANAGEMENT PLAN PHASE III

C.D.B. BUILDING NUMBER BB0022

LIST IN ORDER OF RESPONSE ACTION NUMBER

HOMOGENEOUS AREA	MATERIAL DESCRIPTION	ACM CONTENT (%)			DAMAGE ASSESSMENT							RESPONSE ACTION	
		CHRYSO TILE	AMOSITE	OTHER	ASSUMED ACM	NO DAMAGE	SALENT DAMAGE	SIGNIFICANT DAMAGE	NO POTENTIAL DAMAGE	POTENTIAL SIGNIFICANT DAMAGE	POTENTIAL DAMAGE		NUMBER
TJA	Cem. Fittings @ Cem. Ins.	10-20%										8	O&M
TJB	Cem. Fittings @ Air Cell	15-20%										8	O&M
TJC	Cem. Fittings @ Fib. Ins.	25%										8	O&M
TPA	Cementitious Pipe Ins.	5-10%	10-25%									8	O&M
TPB	Air Cell Insulation	10%										8	O&M
TPC	Cem. Ins. @ Elec. Conduit	20%										8	O&M
TTA	Cem. Ins. @ Booster Pump		30%									8	O&M
MFA	9"x9" Vinyl Tile & Mastic											8	O&M
MFB	1'x2' Floor Tile & Mastic											8	O&M
MFC	1'x1' Floor Tile & Mastic											8	O&M
MMA	Wood Fire Door Insulation											8	O&M
MMB	Metal Fire Door Insulation											8	O&M
MMC	Built-Up Roof & Flashings											8	O&M
MMD	Mastic Under Vinyl Floor											8	O&M

ASBESTOS MANAGEMENT PLAN REPORT

CDB PROJECT NUMBER - 910-010-010

HOWE MENTAL HEALTH CENTER
DEPARTMENT OF MENTAL HEALTH AND
DEVELOPMENTAL DISABILITIES
GARAGE BUILDING #25
C.D.B. BUILDING #BB025
7600 WEST 183RD STREET
TINLEY PARK, IL 60477

STATE OF ILLINOIS

CAPITAL DEVELOPMENT BOARD

SPRINGFIELD, ILLINOIS

BY:
FOX & FOX ARCHITECTS & ENGINEERS
330 SOUTH WELLS STREET
CHICAGO, IL 60606
(312) 427-5592

DATE: OCT. 10, 1994

DATE SIGNED: 10/20/94

EXP. DATE: 11/30/96

IDPH LICENSE: 100-0471

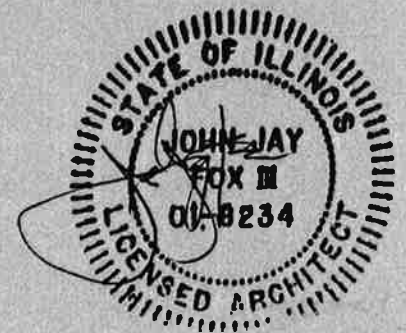


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Garage Building No. 25

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- V. Site Plan
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- VIII. TJB - Cementitious Fittings at Air Cell Insulation
- IX. TJC - Cementitious Pipe Fitting on Fiberglass Pipe
- X. TPA - Cementitious Pipe Wrap Steam Supply and Return
- XI. TPB - Air Cell Pipe Insulation
- XII. TPC - Cementitious Insulation on Electrical Conduit
- XIII. TTA - Cementitious Tank Insulation
- XIV. TTB - Cementitious Insulation on Water Tank #2
- XV. MFA - 9 x 9 Floor Tile and Mastic
- XVI. MMA - Fire Damper Insulation
- XVII. MMC - Metal Fire Door
- XVIII. MMD - insulation on Exhaust Back-Draft Dampers
- XIX. MME - Built-Up Roof and Flashings
- XX. MCA - 2 x4 Ceiling Tile
- XXI. MMB - Vibration Damper
- XXII. Cost Summary
- XXIII. Chain of Custody
- XXIV. Licenses and Accreditations
- XXV. Operation and Maintenance Plan

CAPITAL DEVELOPMENT BOARD BUILDING INVENTORY FORM 3

C.D.B. BUILDING NUMBER: BB025 BUILDING NAME: Garage

USING AGENCY: 321 Dept of Mental Health/DD LOCATION: 070 Howe DEVLPMTL CTR (see 185)

BLDG. ADDRESS: 7600 West 183rd Street CITY: Tinley Park

ZIP: 60477 COUNTY: Cook HOUSE/SENATE DISTRICT: 037/19

YEAR CONSTRUCTED: 1957 GROSS SQ. FT. 21,668 TOTAL FLOORS: 2 FLOORS BELOW GRADE: ---

USE OF BUILDING WHEN CONSTRUCTED(C): Storage CURRENT PRIMARY USE (P): Storage CURRENT SECONDARY USE (S): Industrial

PREDOMINATE CONSTRUCTION TYPE: _____

FOR USING AGENCY USE ONLY: _____

BUILDING NOTES: _____

(FOR C.D.B. USE ONLY)
ASBESTOS STATUS: _____

FORM 4

INTRODUCTION TO THE MANAGEMENT PLAN

A. Policy Statement

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This Management Plan sets forth the recommended response actions for the ACM (asbestos containing material) within this facility. Further, where required, an Operations & Maintenance (O & M) Program has been established which will be implemented by facility staff.

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Dated: _____

Capital Development Board Representative

Dated: _____

Agency (Designated Person)

Dated: 10/20/94



Management Planner

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Gastrointestinal Cancer - Several of the epidemiological studies of workers occupationally exposed to asbestos have shown increased risks of gastrointestinal cancer including cancers of the colon, rectum, stomach and esophagus. The risk, however, does not appear to be as great as for lung cancer. To date, no association has been found between asbestos in drinking water and gastrointestinal cancer.

Asbestos Related Pleural Disease - This category of health effects includes fibrous and sometimes calcified plaques as well as diffuse thickening of the pleura and the pleural effusion. These are non-cancerous changes of the membranes surrounding the lungs and commonly occur many years after asbestos exposure. The presence of plaques suggests prior asbestos exposure but usually does not cause any symptoms or respiratory impairment.

Asbestosis - Asbestosis is a disabling lung disorder consisting of generalized scarring of the lungs which causes shortness of breath on exertion. Asbestosis has been described almost exclusively in workers with occupational exposure to high concentrations of asbestos-containing dusts. In asbestosis, there appears to be a very strong dose response relationship in that the greater the concentration of asbestos fibers, and the longer the duration of exposure, the greater the likelihood and severity of asbestosis.

As with the other asbestos related health effects, there is usually a time lag or latent period of several years before the development of disease. Once acquired, asbestosis tends to progress slowly, sometimes for years after asbestos exposure has ended.

C.D.B. BUILDING NO.: BB025

BUILDING NAME: GARAGE BUILDING, BUILDING NO. 25

The Garage was constructed in 1957. It was originally used as a laundry facility. Minor renovation work has been done to the building over the years.

The building has two floors; a first floor and second floor. The building has 21,668 square feet.

The building provides maintenance service to equipment for the Howe Mental Health Center.

The exterior of the building has concrete columns, window wall and face brick. The building is framed in cast in place concrete columns, beams, floors and roofs.

The existing roof is built-up roofing. The roof appears to need maintenance work.

The mechanical systems are from the original construction. High pressure steam from the underground service tunnel is converted to hot water and low pressure steam and fed through the building to radiators and unit heaters. A low pressure steam supply and return system fed air handling units that provide ventilation to the building. An exhaust system is provided in the building and is located at the first and second floors.

To the best of our knowledge, no asbestos abatement work has been performed in the building.

Asbestos Containing Materials were found in this building. Friable asbestos poses a health hazard when it becomes airborne. Some materials were assumed to contain asbestos and were not sampled; no judgement regarding their relative risk to health can be made at this time.

In addition to asbestos containing insulation, this building contained other insulating materials such as fiberglass, cellulose, etc.

SUMMARY OF FINDINGS

INSPECTION PHASE 1.

FACILITY NAME: Howe Mental Health Center

CDB BUILDING NAME & NUMBER: Garage Building - CDB Building No.: BB025

CDB PROJECT NUMBER: 910-010-010

HOMOGENEOUS AREA	DESCRIPTION	QUANTITY	NUMBER SAMPLES RECOMMENDED	REMOVAL COST ESTIMATE
TJA	Cementitious Pipe Fitting Insulation	70	3	\$
TJB	Cementitious Pipe Fitting Insulation	45	3	\$
TJC	Cementitious Pipe Fit on Fiberglass Pipe	2	3	\$
TPA	Cementitious Pipe Wrap Steam Supply & Return	1300	3	\$
TPB	Air Cell Insulation	400	1	\$
TPC	Cementitious Insulation on Electrical Conduit	16	3	\$
TTA	Cementitious Tank Insulation	20	3	\$
MCA	2 X 4 Ceiling Tile	100	3	\$
MFA	9 X 9 Floor Tile and Mastic	100	Assume	\$
MMA	Fire Damper Insulation	150	Assume	\$
MMB	Vibration Damper	150	3	\$
MMC	Metal Fire Door	1	3	\$

INSPECTION PHASE 1.

FACILITY NAME: Howe Mental Health Center

CDB BUILDING NAME & NUMBER: Garage Building - CDB Building No.: BB025

CDB PROJECT NUMBER: 910-010-010

HOMOGENEOUS AREA	DESCRIPTION	QUANTITY	NUMBER SAMPLES MENDED	REMOVAL COST ESTIMATE
MMD	Insulation on Exhaust Backdraft Dampers	2	Assume	\$
MME	Roofing Material, Felt, Flashing	16,950	Assume	\$ 59,328
				\$
				\$
				\$
				\$
				\$
				\$
				\$
				\$
				\$
				\$
				\$
				\$
				\$

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.:

**BB025
901-010-010**

USER AGENCY:

Department of Mental Health

USER LOCATION:

**(070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477**

BUILDING NAME:

Garage Building

INSPECTORS:

**Vahooman Mirkhaef
Jay Fox
David Sloman**

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
TJA	Cementitious Pipe Fitting Insulation on Cementitious Insulation		3		
TJB	Cementitious Pipe Fitting Insulation on Air Cell		3		
TJC	Cementitious Pipe Fitting on Fiberglass Pipe		2		
TPA	Cementitious Insulation		3		
TPB	Air Cell Insulation		1		
TPC	Cementitious Insulation on Electrical Conduit		3		

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.:

BB025
901-010-010

USER AGENCY:

Department of Mental Health

USER LOCATION:

(070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477

BUILDING NAME:

Garage Building

INSPECTORS:

Vahooman Mirkhaef
Jay Fox
David Sloman

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
TTA	Cementitious Tank Insulation		3		
TTB	Cementitious Insulation on Water Tank #2		3		
MFA	9 X 9 Floor Tile and Mastic	X			
MMA	Fire Damper Insulation	X			
MMC	Metal Fire Door	X			
MMD	Insulation on Exhaust Backdraft Dampers	X			

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.: BB025
 901-010-010

USER AGENCY: Department of Mental Health

USER LOCATION: (070) Howe Mental Health Center
 7600 W. 183rd Street
 Tinley Park, Illinois 60477

BUILDING NAME: Garage Building

INSPECTORS: Vahooman Mirkhaef
 Jay Fox
 David Sloman

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
MME	Roofing Material, Felt, Flashing	X			
MCA	2 X 4 Ceiling Tile			3	
MMB	Vibration Damper			3	

FORM 6 SUMMARY OF FINDINGS

MANAGEMENT PLAN PHASE III

BUILDING NAME

Garage Building No. 25

LIST IN ORDER OF RESPONSE ACTION NUMBER

C.D.B. BUILDING NUMBER

RR025

HOMOGENEOUS AREA	MATERIAL DESCRIPTION	ACM CONTENT (%)				DAMAGE ASSESSMENT							RESPONSE ACTION
		CHRYSOTILE	AMOSITE	OTHER	ASSUMED ACM	NO DAMAGE	SALIENT DAMAGE	SIGNIFICANT DAMAGE	NO POTENTIAL DAMAGE	POTENTIAL DAMAGE	POTENTIAL SIGNIFICANT DAMAGE	NUMBER	
TJA	Cem. Fittings @ Cem. Ins.	25%										8	O&M
TJB	Cem. Fittings @ Air Cell	5-15%	20%	5%					X			8	O&M
TJC	Cem. Fittings @ Fib. Ins.	25%							X			8	O&M
TPA	Cementitious Pipe Ins.	5%	20%						X			8	O&M
TPB	Air Cell Pipe Insulation	10%							X			8	O&M
TPC	Cem. Ins. @ Elec. Conduit	10%							X			8	O&M
TTA	Cem. Ins. @ Booster Tank	25%							X			8	O&M
TTB	Cem. Ins. @ Water Tank	15%	Trace						X			8	O&M
MFA	9"x9" Floor Tile & Mastic		10%						X			8	O&M
MMA	Fire Damper Insulation								X			8	O&M
MMC	Metal Fire Door Insulation								X			8	O&M
MMD	Ins. @ Exhaust Dampers								X			8	O&M
MME	Built-Up Roof & Flashings								X			8	O&M

ASBESTOS MANAGEMENT PLAN REPORT

CDB PROJECT NUMBER - 910-010-010

HOWE MENTAL HEALTH CENTER
DEPARTMENT OF MENTAL HEALTH AND
DEVELOPMENTAL DISABILITIES
MAPLE HALL #26
C.D.B. BUILDING #BB026
7600 WEST 183RD STREET
TINLEY PARK, IL 60477

STATE OF ILLINOIS

CAPITAL DEVELOPMENT BOARD

SPRINGFIELD, ILLINOIS

BY:
FOX & FOX ARCHITECTS & ENGINEERS
330 SOUTH WELLS STREET
CHICAGO, IL 60606
(312) 427-5592

DATE: OCT. 10, 1994

DATE SIGNED: 10/20/94

EXP. DATE: 11/30/96

IDPH LICENSE: 100-0471

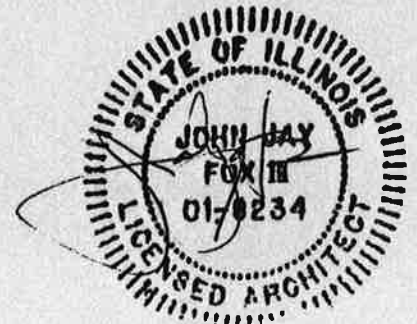


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- IX. TJB - Cementitious Fittings at Fiberglass Insulation
- X. TPA - Cementitious Pipe Insulation
- XI. TTA - Cementitious Insulation at Booster Tank
- XII. MMF - Rope Insulation at Access Panel
- XIII. MFA - 9" x 9" Floor Tile and Mastic
- XIV. MFB - 12" x 12" Vinyl Tile and Mastic
- XV. MMA - Wood Fire Door Insulation
- XVI. MMB - Metal Fire Door Insulation
- XVII. MMC - Vibration Damper Insulation
- XVIII. MMD - Fire Damper Insulation
- XIX. MME - Exhaust Back-Draft Damper Insulation
- XX. MMG - Mastic Under Carpeting
- XXI. MTA - Transite Duct Pipe Underneath Floor
- XXII. MTB - Transite Louvers
- XXIII. SPA - Plaster Walls and Ceiling
- XXIV. TFA - Flue Insulation for Electric Generator
- XXV. TPB - Cementitious Insulation on Electrical Conduit

- XXVI. Cost Summary
- XXVII. Chain of Custody
- XXVIII. Licenses and Accreditations
- XXIX. Operation and Maintenance Plan

CAPITAL DEVELOPMENT BOARD BUILDING INVENTORY FORM 3

C.D.B. BUILDING NUMBER: BB026 BUILDING NAME: Maple Hall

USING AGENCY: 321 Dept of Mental Health/DD LOCATION: 185 Tinley Park MHC (SEE 070)

BLDG. ADDRESS: 7400 West 183rd Street CITY: Tinley Park

ZIP: 60477 COUNTY: Cook HOUSE/SENATE DISTRICT: 037/19

YEAR CONSTRUCTED: 1963 GROSS SQ. FT. 76,016 TOTAL FLOORS: 5 FLOORS BELOW GRADE: 1

USE OF BUILDING WHEN CONSTRUCTED(C): Health Care CURRENT PRIMARY USE (P): Health Care CURRENT SECONDARY USE (S): -----

PREDOMINATE CONSTRUCTION TYPE: Brick and Masonry

FOR USING AGENCY USE ONLY: _____

BUILDING NOTES: _____

(FOR C.D.B. USE ONLY)
ASBESTOS STATUS: _____

FORM 4

INTRODUCTION TO THE MANAGEMENT PLAN

A. Policy Statement

This Management Plan is intended to be a working document which will serve as a guide to staff, employees, occupants and visitors in minimizing the risk of exposure to asbestos fibers. The State of Illinois recognizes the serious health hazards associated with asbestos fibers. The State has conducted an inspection of this facility in order to determine whether asbestos is present, and if so, where the asbestos is located.

This Management Plan sets forth the recommended response actions for the ACM (asbestos containing material) within this facility. Further, where required, an Operations & Maintenance (O & M) Program has been established which will be implemented by facility staff.

This Plan has been reviewed by CDB, the Contracting Agency and the Using Agency and represents the policies and procedures to be implemented with respect to any ACM within this facility.

Dated: _____

Capital Development Board Representative

Dated: _____

Agency (Designated Person)

Dated: 10/26/94



Management Planner

The data linking asbestos exposure to mesothelioma is based upon many of the same epidemiological studies of workers that demonstrated an association between asbestos exposure and lung cancer. The findings are somewhat different than for lung cancer. Lower non-occupational exposures have also been associated with mesothelioma in addition to occupational exposure. Therefore, lower levels of exposure to asbestos as found in some non-occupational settings may give rise to mesothelioma. Secondly, the nature of the dose response relationship may be different from that of lung cancer. The risk continues to increase as the number of years since first exposure increases. In many cases, a latent period of more than 40 years has been described.

Gastrointestinal Cancer - Several of the epidemiological studies of workers occupationally exposed to asbestos have shown increased risks of gastrointestinal cancer including cancers of the colon, rectum, stomach and esophagus. The risk, however, does not appear to be as great as for lung cancer. To date, no association has been found between asbestos in drinking water and gastrointestinal cancer.

Asbestos Related Pleural Disease - This category of health effects includes fibrous and sometimes calcified plaques as well as diffuse thickening of the pleura and the pleural effusion. These are non-cancerous changes of the membranes surrounding the lungs and commonly occur many years after asbestos exposure. The presence of plaques suggests prior asbestos exposure but usually does not cause any symptoms or respiratory impairment.

Asbestosis - Asbestosis is a disabling lung disorder consisting of generalized scarring of the lungs which causes shortness of breath on exertion. Asbestosis has been described almost exclusively in workers with occupational exposure to high concentrations of asbestos-containing dusts. In asbestosis, there appears to be a very strong dose response relationship in that the greater the concentration of asbestos fibers, and the longer the duration of exposure, the greater the likelihood and severity of asbestosis.

As with the other asbestos related health effects, there is usually a time lag or latent period of several years before the development of disease. Once acquired, asbestosis tends to progress slowly, sometimes for years after asbestos exposure has ended.

C.D.B. BUILDING NO.: BBO26

BUILDING NAME: MAPLE HALL, BUILDING NO. 26

Maple Hall was constructed in 1963. Minor renovation work has been done to the building over the years.

The building has 5 floors; basement, first floor, second floor, third floor and fourth floor. The building has 76,016 square feet. The penthouse at the roof houses mechanical equipment .

The building provides treatment, housing and care to the patients at Tinley Park Mental Health Center.

The building is framed in cast place concrete columns, beams and floors. The exterior of the building has concrete columns and floors, window wall and face brick.

The existing roof has been recently replaced and is a rubber roof in good condition.

The mechanical systems are from the original date of construction. High pressure steam from the underground service tunnel is converted to hot water and fed through the building to a radiant metal ceiling, radiators and cabinet unit heaters. Chilled water is used in the same system for air conditioning the building. An HYAC system provides ventilation to the spaces in the building.

To the best of our knowledge, no asbestos abatement work has been performed in the building.

Asbestos Containing Materials were found in this building. Friable asbestos poses a health hazard when it becomes airborne. Some materials were assumed to contain asbestos and were not sampled; no judgement regarding their relative risk to health can be made at this time.

In addition to asbestos containing insulation, this building contained other insulating materials such as fiberglass, cellulose, etc.

SUMMARY OF FINDINGS

INSPECTION PHASE 1.

FACILITY NAME: Howe Mental Health Center

CDB BUILDING NAME & NUMBER: Maple Hall - CDB Building No.: BB026

CDB PROJECT NUMBER: 910-010-010

HOMOGENEOUS AREA	DESCRIPTION	QUANTITY	NUMBER SAMPLES RECOMMENDED	REMOVAL COST ESTIMATE
SPA	Plaster Walls & Ceiling	186,000	7	\$2,585,400
TDA	Cementitious Insulation on ducts	504	3	\$
TFA	Flue Insulation for Electric Generator	64 l.f.	3	\$
TJA	Cementitious Fittings	70	3	\$
TJB	Cementitious Fitting on Fiberglass Pipe	900	5	\$ 121,080
TPA	Cementitious Pipe Insulation	580	3	\$
TPB	Cementitious Insulation on Electrical Conduit	24	3	\$
TTA	Cementitious Material on Booster Pump	128	3	\$
MFA	9 X 9 Floor Tile & Mastic	59,514	Assume	\$ 508,845
MFB	12 X 12 Floor Tile & Mastic	150	Assume	\$
				\$
MMA	Wood Fire Doors	12	Assume	\$

INSPECTION PHASE 1.

FACILITY NAME: Howe Mental Health Center

CDB BUILDING NAME & NUMBER: Maple Hall - CDB Building No.: BB026

CDB PROJECT NUMBER: 910-010-010

HOMOGENEOUS AREA	DESCRIPTION	QUANTITY	NUMBER SAMPLES RECOMMENDED	REMOVAL COST ESTIMATE
MMB	Metal Fire Doors	200	Assume	\$
MMC	Vibration Damper Insulation	8	3	\$
MMD	Fire Damper Insulation	2	3	\$
MME	Exhaust Backdraft Damper	18	3	\$
MMF	Rope Insulation at Access Panel		1	\$
MMG	Carpet With Mastic		Assume	\$
MTA	Transite Ducts Under Floor		Assume	\$
MTB	Transite Louvers		Assume	\$
				\$
				\$
				\$
				\$

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.:

**BB026
901-010-010**

USER AGENCY:

Department of Mental Health

USER LOCATION:

**(070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477**

BUILDING NAME:

Maple Hall

INSPECTORS:

**Jay Fox
Vahooman Mirkhaef
David Sloman**

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
TDA	Cementitious Insulation on Ducts		3		
TJA	Cementitious Fittings		3		
TJB	Cementitious Fitting on Fiberglass Pipe		3		
TPA	Cementitious Pipe Insulation		3		
TTA	Cementitious Material on Booster Pump		3		
MMF	Rope Insulation around Access Panel		1		

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.:

**BB026
901-010-010**

USER AGENCY:

Department of Mental Health

USER LOCATION:

**(070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477**

BUILDING NAME:

Maple Hall

INSPECTORS:

**Jay Fox
Vahooman Mirkhaef
David Sloman**

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
MFA	9 X 9 Floor Tile and Mastic	X			
MFB	12 X 12 Floor Tile and Mastic	X			
MMA	Wood Fire Doors	X			
MMB	Metal Fire Doors	X			
MMC	Vibration Damper Insulation	X			
MMD	Fire Damper Insulation	X			

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.: BB026
901-010-010

USER AGENCY: Department of Mental Health

USER LOCATION: (070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477

BUILDING NAME: Maple Hall

INSPECTORS: Jay Fox
Vahooman Mirkhaef
David Sloman

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
MME	Exhaust Backdraft Damper	X			
MMG	Carpet and Mastic Door	X			
MTA	Transite Duct under Door	X			
MTB	Transite Louvars	X			
SPA	Plaster Walls and Ceiling			7	
TFA	Flue Insulation For Electric Generator			3	

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.: BB026
901-010-010

USER AGENCY: Department of Mental Health

USER LOCATION: (070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477

BUILDING NAME: Maple Hall

INSPECTORS: Jay Fox
Vahooman Mirkhaef
David Sloman

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
TPB	Cementitious Insulation on Electrical Conduit			3	

FORM 6 - SUMMARY OF FINDINGS

MANAGEMENT PLAN PHASE III

BUILDING NAME Maple Hall #26

LIST IN ORDER OF RESPONSE ACTION NUMBER

C.D.B. BUILDING NUMBER BB026

HOMOGENEOUS AREA	MATERIAL DESCRIPTION	ACM CONTENT (%)		OTHER	ASSUMED ACM	DAMAGE ASSESSMENT							RESPONSE ACTION			
		CHRYSOPILE	AMOSITE			NO DAMAGE	SALIENT DAMAGE	SIGNIFICANT DAMAGE	NO POTENTIAL DAMAGE	POTENTIAL DAMAGE	POTENTIAL SIGNIFICANT DAMAGE	NUMBER		DESCRIPTION (I.E. REMOVE, REPAIR, ENCLOSE, ENCAPSULATE, OR O&M)		
TDA	Cem. Insulation @ Ducts	5-10%	20-25%												6	O&M
TJA	Cem. Fit. @ Cem. Ins.	25-30%	0-5%												6	O&M
TJB	Cem. Fit. @ Fiber. Ins.	20%											X		3	O&M
TPA	Cem. Pipe Insulation		30%												5	O&M
TVA	Cem. Insulation @ Tank	5-30%	25%												7	O&M
MMF	Rope Insulation	90%													8	O&M
MFA	9"x9" Floor Tile & Mastic				X										8	O&M
MFB	12"x12" Floor Tile & Mastic				X										8	O&M
MMA	Wood Fire Door Insulation				X										8	O&M
MMB	Metal Fire Door Insulation				X										8	O&M
MMC	Vibration Damper Insulation				X										8	O&M
MMD	Fire Damper Insulation				X										8	O&M
MME	Exhaust Back-Draft Damper Insulation				X										8	O&M
MMG	Mastic Under Carpeting				X										8	O&M
MTA	Transite Ducts @ Floor				X										8	O&M
MTB	Transite Louvers				X										8	O&M

ASBESTOS MANAGEMENT PLAN REPORT

CDB PROJECT NUMBER - 910-010-010

HOWE MENTAL HEALTH CENTER
DEPARTMENT OF MENTAL HEALTH AND
DEVELOPMENTAL DISABILITIES
ADMINISTRATION BUILDING #27
C.D.B. BUILDING #BB027
7600 WEST 183RD STREET
TINLEY PARK, IL 60477

STATE OF ILLINOIS

CAPITAL DEVELOPMENT BOARD

SPRINGFIELD, ILLINOIS

BY:
FOX & FOX ARCHITECTS & ENGINEERS
330 SOUTH WELLS STREET
CHICAGO, IL 60606
(312) 427-5592

DATE: OCT. 10, 1994

DATE SIGNED: 10/26/94

EXP. DATE: 11/30/96

IDPH LICENSE: 100-0471

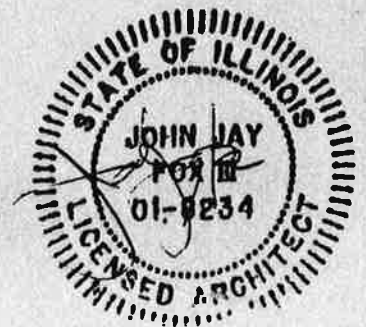


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- IX. TPB - Air Cell Pipe Insulation
- X. TTA - Cementitious Insulation at Flash Tank
- XI. TTB - Cementitious Insulation at Hot Water Tanks
- XII. MTA - Transite Siding Around Cooling Tower
- XIII. MFA - 9" x 9" Floor Tile and Mastic
- XIV. MFB - 12" x 12" Vinyl Tile and Mastic
- XV. MMA - Metal Fire Door Insulation
- XVI. MMB - Fire Damper Insulation
- XVII. MMD - Transite Inside Cooling Tower
- XVIII. SFA - Fire Proofing on Ceiling
- XIX. SPA - Plaster Material
- XX. MMC - Vibration Dampers

- XXI. Cost Summary
- XXII. Chain of Custody
- XXIII. Licenses and Accreditations
- XXIV. Operation and Maintenance Plan

CAPITAL DEVELOPMENT BOARD BUILDING INVENTORY FORM 3

C.D.B. BUILDING NUMBER: BB027 BUILDING NAME: Administration Building

USING AGENCY: 321 Dept. Of Mental Health/DD LOCATION: 185 Tinley Park MHC

BLDG. ADDRESS: 7400 West 183rd Street CITY: Tinley Park

ZIP: 60477 COUNTY: Cook HOUSE/SENATE DISTRICT: 037/19

YEAR CONSTRUCTED: 1965 GROSS SQ. FT. 23,757 TOTAL FLOORS: 3 FLOORS BELOW GRADE: 1

USE OF BUILDING WHEN CONSTRUCTED(C): Business CURRENT PRIMARY USE (P): Business CURRENT SECONDARY USE (S): _____

PREDOMINATE CONSTRUCTION TYPE: Masonry

FOR USING AGENCY USE ONLY: _____

BUILDING NOTES: _____

(FOR C.D.B. USE ONLY) ASBESTOS STATUS: _____

FORM 4

INTRODUCTION TO THE MANAGEMENT PLAN

A. Policy Statement

This Management Plan is intended to be a working document which will serve as a guide to staff, employees, occupants and visitors in minimizing the risk of exposure to asbestos fibers. The State of Illinois recognizes the serious health hazards associated with asbestos fibers. The State has conducted an inspection of this facility in order to determine whether asbestos is present, and if so, where the asbestos is located.

This Management Plan sets forth the recommended response actions for the ACM (asbestos containing material) within this facility. Further, where required, an Operations & Maintenance (O & M) Program has been established which will be implemented by facility staff.

This Plan has been reviewed by CDB, the Contracting Agency and the Using Agency and represents the policies and procedures to be implemented with respect to any ACM within this facility.

Dated: _____

Capital Development Board Representative

Dated: _____

Agency (Designated Person)

Dated: 10/26/94



Management Planner

The data linking asbestos exposure to mesothelioma is based upon many of the same epidemiological studies of workers that demonstrated an association between asbestos exposure and lung cancer. The findings are somewhat different than for lung cancer. Lower non-occupational exposures have also been associated with mesothelioma in addition to occupational exposure. Therefore, lower levels of exposure to asbestos as found in some non-occupational settings may give rise to mesothelioma. Secondly, the nature of the dose response relationship may be different from that of lung cancer. The risk continues to increase as the number of years since first exposure increases. In many cases, a latent period of more than 40 years has been described.

Gastrointestinal Cancer - Several of the epidemiological studies of workers occupationally exposed to asbestos have shown increased risks of gastrointestinal cancer including cancers of the colon, rectum, stomach and esophagus. The risk, however, does not appear to be as great as for lung cancer. To date, no association has been found between asbestos in drinking water and gastrointestinal cancer.

Asbestos Related Pleural Disease - This category of health effects includes fibrous and sometimes calcified plaques as well as diffuse thickening of the pleura and the pleural effusion. These are non-cancerous changes of the membranes surrounding the lungs and commonly occur many years after asbestos exposure. The presence of plaques suggests prior asbestos exposure but usually does not cause any symptoms or respiratory impairment.

Asbestosis - Asbestosis is a disabling lung disorder consisting of generalized scarring of the lungs which causes shortness of breath on exertion. Asbestosis has been described almost exclusively in workers with occupational exposure to high concentrations of asbestos-containing dusts. In asbestosis, there appears to be a very strong dose response relationship in that the greater the concentration of asbestos fibers, and the longer the duration of exposure, the greater the likelihood and severity of asbestosis.

As with the other asbestos related health effects, there is usually a time lag or latent period of several years before the development of disease. Once acquired, asbestosis tends to progress slowly, sometimes for years after asbestos exposure has ended.

C.D.B. BUILDING NO.: BB027

BUILDING NAME: ADMINISTRATION BUILDING, BUILDING NO. 27

The Administrative Building was constructed in 1965, it is part of the building complex at the Tinley Park Mental Health Center. A new HYAC system was installed in 1992. Minor remodeling has been done to the building over the years.

The building is 3-story which include a partial basement area. The total square footage of the building is 23,757 square feet. There are no attics or crawlspace.

The building is used by administration personnel for the Tinley Park Mental Health Center.

The exterior of the building is faced with exterior face brick, pre-cast concrete and aluminum windows and frames. The structure of the building is framed by concrete columns, beams and joists.

The roof is flat and pitched to drains. The roof has been replaced in the last few years. The roof is single membrane on insulation and ballasted by stone. The roof is in good shape.

The building has a new HYAC system. The building is fed by high pressure steam from the tunnel and converted to hot water.

An asbestos abatement project was performed in January of 1992, removing the cementitious fittings from the fiberglass insulation at the first and second floor radiant heating system. All ACM was removed from the boiler room at the basement.

Asbestos Containing Materials were found in this building. Friable asbestos poses a health hazard when it becomes airborne. Some materials were assumed to contain asbestos and were not sampled; no judgement regarding their relative risk to health can be made at this time.

In addition to asbestos containing insulation, this building contained other insulating materials such as fiberglass, cellulose, etc.

SUMMARY OF FINDINGS

INSPECTION PHASE 1.

CDB BUILDING NO./PROJECT NO.: BB027 / 910-010-010

USER AGENCY: Department of Mental Health/DD

USER LOCATION: 321 Tinley Park Mental Health Facility
7400 West 183rd Street
Tinley Park, Illinois 60477 - Cook County

BUILDING NAME: Administration Building

INSPECTORS: Vahooman Mirkhaef (I-057), Jay Fox (I-0471)

HOMOGENEOUS AREA	DESCRIPTION	QUANTITY (SQ. FT.)	NUMBER SAMPLES RECOMMENDED	REMOVAL COST ESTIMATE
SFA	Fire Proofing On Ceiling In Boiler Room	416	3	\$
SPA	Plaster Material	5100	7	\$ 28560
TPA	Mag Block Pipe Insulation	80	3	\$
TJA	Cementitious Fittings	312	3	\$
TPB	Air-Cell Pipe Insulation	10	3	\$
				\$
				\$

HOMOGENEOUS AREA	DESCRIPTION	QUANTITY (SQ. FT.)	NUMBER SAMPLES RECOMMENDED	REMOVAL COST ESTIMATE
TTA	Mag Block Insulation On Flash Tank	180	3	\$
TTB	Mag Block Insulation On Hot Water Tank	80	3	\$
				\$
MMA	Insulation Inside Fire Doors-Metal Doors	7	Assumed ACM	\$
MMB	Insulation On Fire Dampers	50	Assumed ACM	\$
MMC	Vibration Dampers	70	3	\$
MMD	Liner Inside The Cooling Tower Tank	20		\$
MFA	9x9 Floor Tile And Mastic	16,000	Assumed ACM	\$
MFB	1x1 Floor Tile And Mastic	576	Assumed ACM	\$
MTA	Transite Siding Around Cooling Tower	100	1	\$

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.: BB027
901-010-010

USER AGENCY: Department of Mental Health

USER LOCATION: (070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477

BUILDING NAME: Administration Building

INSPECTORS: Jay Fox
Vahooman Mirkhaef
David Sloman

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
TJA	Cementitious Fittings on Pipes		3		
TPA	Cementitious Pipe Insulation		3		
TPB	Cementitious Air Cell Pipe Insulation		1		
TTA	Cementitious Insulation on Flash Tank		3		
TTB	Cementitious Insulation on Hot Water Tank		3		
MTA	Transite Siding Around Cooling Tower		1		

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.:

**BB027
901-010-010**

USER AGENCY:

Department of Mental Health

USER LOCATION:

**(070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477**

BUILDING NAME:

Administration Building

INSPECTORS:

**Jay Fox
Vahooman Mirkhaef
David Sloman**

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
MFA	9 x 9 Floor Tile and Mastic	X			
MFB	1 x 1 Floor Tile and Mastic	X			
MMA	Insulation Inside Fire Doors-Metal Doors	X			
MMB	Insulation On Fire Dampers	X			
MMD	Liner Inside Cooling Tanks	X			
SFA	Fire Proofing on Ceiling			3	
SPA	Plaster Material			7	

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.: BB027
901-010-010

USER AGENCY: Department of Mental Health

USER LOCATION: (070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477

BUILDING NAME: Administration Building

INSPECTORS: Jay Fox
Vahooman Mirkhaef
David Sloman

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
MMC	Vibration Dampers			3	

FORM 6 - SUMMARY OF FINDINGS

MANAGEMENT PLAN PHASE III

LIST IN ORDER OF RESPONSE ACTION NUMBER

BUILDING NAME

Administration Building #27

C.D.B. BUILDING NUMBER

BB027

HOMOGENEOUS AREA	MATERIAL DESCRIPTION	ACM CONTENT (%)			DAMAGE ASSESSMENT							RESPONSE ACTION	
		CHRYSOPILE	AMOSITE	OTHER	ASSUMED ACM	NO DAMAGE	SALENT DAMAGE	SIGNIFICANT DAMAGE	NO POTENTIAL DAMAGE	POTENTIAL SIGNIFICANT DAMAGE	POTENTIAL DAMAGE		NUMBER
TJA	Cementitious Fittings		30-40%									8	O&M
TPA	Cementitious Pipe Insulation								X				O&M
TPB	Air Cell Pipe Insulation	10%	35%						X			8	Has been removed
TTA	Cementitious Insulation @ Flash Tank	40%											Has been removed
TTB	Cementitious Insulation @ Hot Water Tanks		40%										Has been removed
MTA	Transite Siding @ Cooling Tower	40%	10%										Has been removed
MFA	9"x9" Floor Tile & Mastic				X				X			8	O&M
MFB	12"x12" Floor Tile & Mastic				X				X			8	O&M
MMA	Metal Fire Door Insulation				X				X			8	O&M
MMB	Fire Damper Insulation				X				X			8	O&M
MMD	Transite Inside Cooling Tower				X				X			8	O&M

ASBESTOS MANAGEMENT PLAN REPORT

CDB PROJECT NUMBER - 910-010-010

HOWE MENTAL HEALTH CENTER
DEPARTMENT OF MENTAL HEALTH AND
DEVELOPMENTAL DISABILITIES
SPRUCE HALL #28
C.D.B. BUILDING #BB028
7600 WEST 183RD STREET
TINLEY PARK, IL 60477

STATE OF ILLINOIS

CAPITAL DEVELOPMENT BOARD

SPRINGFIELD, ILLINOIS

BY:
FOX & FOX ARCHITECTS & ENGINEERS
330 SOUTH WELLS STREET
CHICAGO, IL 60606
(312) 427-5592

DATE: OCT. 10, 1994

DATE SIGNED: 10/26/94

EXP. DATE: 11/30/96

IDPH LICENSE: 100-0471

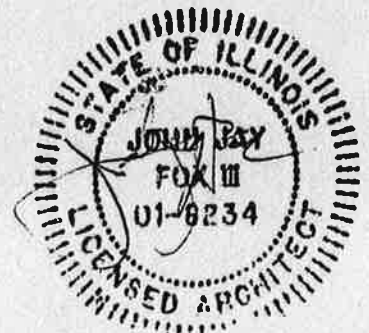


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- X. TJC - Cementitious Fittings at Air Cell Pipe Insulation
- XI. TPA - Cementitious Pipe Insulation
- XII. TPB - Air Cell Pipe Insulation
- XIII. TTA - Cementitious Insulation at Conversion Tanks
- XIV. MFA - 9" x 9" Floor Tile and Mastic
- XV. MFB - 12" x 12" Vinyl Tile and Mastic
- XVI. MFC - Vinyl Sheeting and Mastic
- XVII. MMA - Metal Fire Door Insulation
- XVIII. MMB - Vibration Damper Insulation
- XIX. MMC - Fire Damper Insulation
- XX. MMD - Exhaust Back-Draft Damper Insulation
- XXI. SFA - Sprayed on Fire Proofing
- XXII. SPA - Plaster Walls
- XXIII. TPC - Cementitious Insulation on Electrical Conduit

- XXIV. Cost Summary
- XXV. Chain of Custody
- XXVI. Licenses and Accreditations
- XXVII. Operation and Maintenance Plan

CAPITAL DEVELOPMENT BOARD BUILDING INVENTORY FORM 3

C.D.B. BUILDING NUMBER: BBo28 BUILDING NAME: Spruce Hall

USING AGENCY: 321 Dept of Mental Health/DD LOCATION: 185 Tinley Park MHC (SEE 070)

BLDG. ADDRESS: 7400 West 183rd Street CITY: Tinley Park HOUSE/SENATE DISTRICT: 037/19

ZIP: 60477 COUNTY: Cook TOTAL FLOORS: 4 FLOORS BELOW GRADE: 1

YEAR CONSTRUCTED: 1965 GROSS SQ. FT.: 91,540 CURRENT PRIMARY USE (P): Health Care CURRENT SECONDARY USE (S): -----

USE OF BUILDING WHEN CONSTRUCTED(C): Health Care CURRENT PRIMARY USE (P): Health Care

PREDOMINATE CONSTRUCTION TYPE: Masonry

FOR USING AGENCY USE ONLY: _____

BUILDING NOTES: _____

(FOR C.D.B. USE ONLY)
ASBESTOS STATUS: _____

FORM 4

INTRODUCTION TO THE MANAGEMENT PLAN

A. Policy Statement

This Management Plan is intended to be a working document which will serve as a guide to staff, employees, occupants and visitors in minimizing the risk of exposure to asbestos fibers. The State of Illinois recognizes the serious health hazards associated with asbestos fibers. The State has conducted an inspection of this facility in order to determine whether asbestos is present, and if so, where the asbestos is located.

This Management Plan sets forth the recommended response actions for the ACM (asbestos containing material) within this facility. Further, where required, an Operations & Maintenance (O & M) Program has been established which will be implemented by facility staff.

This Plan has been reviewed by CDB, the Contracting Agency and the Using Agency and represents the policies and procedures to be implemented with respect to any ACM within this facility.


Dated: _____

Capital Development Board Representative

Dated: _____

Agency (Designated Person)

Dated: 10/26/14



Management Planner

The data linking asbestos exposure to mesothelioma is based upon many of the same epidemiological studies of workers that demonstrated an association between asbestos exposure and lung cancer. The findings are somewhat different than for lung cancer. Lower non-occupational exposures have also been associated with mesothelioma in addition to occupational exposure. Therefore, lower levels of exposure to asbestos as found in some non-occupational settings may give rise to mesothelioma. Secondly, the nature of the dose response relationship may be different from that of lung cancer. The risk continues to increase as the number of years since first exposure increases. In many cases, a latent period of more than 40 years has been described.

Gastrointestinal Cancer - Several of the epidemiological studies of workers occupationally exposed to asbestos have shown increased risks of gastrointestinal cancer including cancers of the colon, rectum, stomach and esophagus. The risk, however, does not appear to be as great as for lung cancer. To date, no association has been found between asbestos in drinking water and gastrointestinal cancer.

Asbestos Related Pleural Disease - This category of health effects includes fibrous and sometimes calcified plaques as well as diffuse thickening of the pleura and the pleural effusion. These are non-cancerous changes of the membranes surrounding the lungs and commonly occur many years after asbestos exposure. The presence of plaques suggests prior asbestos exposure but usually does not cause any symptoms or respiratory impairment.

Asbestosis - Asbestosis is a disabling lung disorder consisting of generalized scarring of the lungs which causes shortness of breath on exertion. Asbestosis has been described almost exclusively in workers with occupational exposure to high concentrations of asbestos-containing dusts. In asbestosis, there appears to be a very strong dose response relationship in that the greater the concentration of asbestos fibers, and the longer the duration of exposure, the greater the likelihood and severity of asbestosis.

As with the other asbestos related health effects, there is usually a time lag or latent period of several years before the development of disease. Once acquired, asbestosis tends to progress slowly, sometimes for years after asbestos exposure has ended.

C.D.B. BUILDING NO.: BB028

BUILDING NAME: SPRUCE HALL, BUILDING NO. 28

Spruce Hall was constructed in 1965. Minor renovation work has been done to the building over the years.

The building has 4 floors; basement, first floor, second floor and third floor. The building has 91, 540 square feet.

The building provides treatment, housing and care to the patients at Tinley Park Mental Health Center.

The building is framed in cast place concrete columns, beams and floors. The exterior of the building is face-brick, concrete columns and windows.

The existing roof has been recently replaced and is a rubber roof in good condition.

The mechanical systems are from the original date of construction. High pressure steam from the underground service tunnel is converted to hot water and fed through the building to a radiant metal ceiling, radiators and cabinet unit heaters. Chilled water is used in the same system for air conditioning the building. An HVAC system provides ventilation to the spaces in the building.

To the best of our knowledge, no asbestos abatement work has been performed in the building.

Asbestos Containing Materials were found in this building. Friable asbestos poses a health hazard when it becomes airborne. Some materials were assumed to contain asbestos and were not sampled; no judgement regarding their relative risk to health can be made at this time.

In addition to asbestos containing insulation, this building contained other insulating materials such as fiberglass, cellulose, etc.

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.:

**BB028
901-010-010**

USER AGENCY:

Department of Mental Health

USER LOCATION:

**(070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477**

BUILDING NAME:

Spruce Hall

INSPECTORS:

**Jay Fox
Vahooman Mirkhaef
David Sloman**

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
SPB	Sprayed-on Plaster Ceiling		3		
TJA	Cementitious Fitting on Fiberglass Pipe Insulation		3		
TJB	Cementitious Fitting		3		
TJC	Cementitious Fitting on Air Cell Pipe		3		
TPA	Cementitious Pipe Insulation		3		
TPB	Air Cell Pipe Insulation		1		

SUMMARY OF FINDINGS

INSPECTION PHASE 1.

FACILITY NAME: Howe Mental Health Center
CDB BUILDING NAME & NUMBER: Spruce Hall - CDB Building No.: BB028
CDB PROJECT NUMBER: 910-010-010

HOMOGENEOUS AREA	DESCRIPTION	QUANTITY	NUMBER SAMPLES RECOMMENDED	REMOVAL COST ESTIMATE
SFA	Sprayed-on Fire-proofing	39,400	7	\$ 185,180
SPA	Plaster Walls	7,520	7	\$ 104,528
SPB	Sprayed-on Plaster Ceiling	1,000	3	\$
TJA	Cementitious Fitting at Fiberglass Fitting	7 50.	7	\$ 756,750
TJB	Cementitious Fitting	85	5	\$ 252,250
TJC	Air Cell Fittings	2	3	\$
TPA	Cementitious Pipe Insulation	500	5	\$ 112,030
TPB	Air Cell Pipe Insulation	8	1	\$
TPC	Cementitious Insulation on Electrical Conduit	32	3	\$
TTA	Cementitious Insulation on Conversion Tank	96	3	\$
MFA	9 X 9 Vinyl Tile and Mastic	2,560	Assume	\$
MFB	12 X 12 Vinyl Tile and Mastic	120	Assume	\$

INSPECTION PHASE 1.

FACILITY NAME: Howe Mental Health Center

CDB BUILDING NAME & NUMBER: Spruce Hall - CDB Building No.: 88028

CDB PROJECT NUMBER: 910-010-010

HOMOGENEOUS AREA	DESCRIPTION	QUANTITY	NUMBER SAMPLES RECOMMENDED	REMOVAL COST ESTIMATE
MFC	Vinyl Sheet Goods with Mastic	3,584	Assume	\$
MMA	Metal Fire Doors	15	Assume	\$
MMB	Vibration Damper	96	3	\$
MMC	Fire Damper Insulation	124	3	\$
MMD	Exhaust Backdraft Damper	352	3	\$
				\$
				\$
				\$
				\$
				\$
				\$
				\$
				\$
				\$

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.: BB028
901-010-010

USER AGENCY: Department of Mental Health

USER LOCATION: (070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477

BUILDING NAME: Spruce Hall

INSPECTORS: Jay Fox
Vahooman Mirkhaef
David Sloman

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
TTA	Cementitious Insulation on Conversion Tank		3		
MFA	9 X 9 Vinyl tile and Mastic	X			
MFB	12 X 12 Vinyl Tile and Mastic	X			
MFC	Vinyl Sheet Goods with Mastic	X			
MMA	Metal Fire Doors	X			
MMB	Vibration Damper	X			

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.: BB028
901-010-010

USER AGENCY: Department of Mental Health

USER LOCATION: (070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477

BUILDING NAME: Spruce Hall

INSPECTORS: Jay Fox
Vahooman Mirkhaef
David Sloman

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
MMC	Fire Damper Insulation	X			
MMD	Exhaust Backdraft Damper	X			
SFA	Sprayed on Fire Proofing			7	
SPA	Plaster Walls			7	
TPC	Cementitious Insulation on Electrical Conduit			3	

FORM 6 - SUMMARY OF FINDINGS

MANAGEMENT PLAN PHASE III

BUILDING NAME

Spruce Hall #28

LIST IN ORDER OF RESPONSE ACTION NUMBER

C.D.B. BUILDING NUMBER

BB028

HOMOGENEOUS AREA	MATERIAL DESCRIPTION	ACM CONTENT (%)			DAMAGE ASSESSMENT							RESPONSE ACTION			
		CHRYSOTILE	AMOSITE	OTHER	ASSUMED ACM	NO DAMAGE	SALIENT DAMAGE	SIGNIFICANT DAMAGE	NO POTENTIAL DAMAGE	POTENTIAL DAMAGE	POTENTIAL SIGNIFICANT DAMAGE		NUMBER	DESCRIPTION (I.E. REMOVE, REPAIR, ENCLOSE, ENCAPSULATE, OR O&M)	
SPB	Sprayed On Plaster Ceiling	10%								X				6	O&M
TJA	Cem. Fitting on Fiberglass Pipe		5%											3	O&M
TJB	Cem. Fitting on Cem. Ins.	20%	5%											6	O&M
TJC	Cem. Fitting on Air Cell Pipe		5%											8	O&M
TPA	Cem. Pipe Insulation		30%											5	O&M
TPB	Air Cell Pipe Insulation	Trace												8	O&M
TTA	Cem. Ins. on Con. Tanks	25%	5%											5	O&M
MFA	9"x9" Vinyl Tile & Mastic													8	O&M
MFB	12"x12" Vinyl Tile & Mastic													8	O&M
MFC	Vinyl Sheet Goods w/Mastic													8	O&M
MMA	Metal Fire Doors													8	O&M
MMB	Vibration Damper													8	O&M
MNC	Fire Damper Insulation													8	O&M
MMD	Exhaust Back-Draft Damper													8	O&M

ASBESTOS MANAGEMENT PLAN REPORT

CDB PROJECT NUMBER - 910-010-010

HOWE MENTAL HEALTH CENTER
DEPARTMENT OF MENTAL HEALTH AND
DEVELOPMENTAL DISABILITIES
MIMOSA HALL #29
C.D.B. BUILDING #BB029
7600 WEST 183RD STREET
TINLEY PARK, IL 60477

STATE OF ILLINOIS

CAPITAL DEVELOPMENT BOARD

SPRINGFIELD, ILLINOIS

BY:
FOX & FOX ARCHITECTS & ENGINEERS
330 SOUTH WELLS STREET
CHICAGO, IL 60606
(312) 427-5592

DATE: OCT. 10, 1994

DATE SIGNED: 10/26/94

EXP. DATE: 11/30/96

IDPH LICENSE: 100-0471

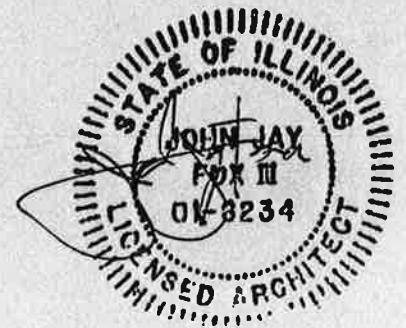
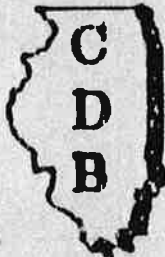


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- VIII. TJB - Fittings on Cementitious Pipe
- IX. TJC - Fitting on Fiberglass Pipe
- X. TPA - Air Cell Pipe Insulation
- XI. TPB - Cementitious Pipe Insulation
- XII. TTA - Cementitious Insulation at Booster Tank
- XIII. TTB - Insulation at Chiller Tank
- XIV. MFA - 9 x 9 Floor Tile and Mastic
- XV. MFB - 1 x 1 Floor Tile and Mastic
- XVI. MFC - Mastic Under Wood Floor
- XVII. MFD - Carpet Mastic Over Vinyl Tile
- XVIII. MMA - Metal Fire Door
- XIX. MMB - Fire Damper Insulation
- XX. MMC - Wood Fire Door
- XXI. MMD - Exhaust Back-Draft Damper insulation
- XXII. MME - Canvas Vibration Damper
- XXIII. MMF - Built-Up Roof and Flashings
- XXIV. MTA - Transite at Cooling Tower
- XXV. SPA - Cementitious Plaster Ceiling
- XXVI. SPB - Plaster Ceiling Brown Coat

- XXVII. Cost Summary

- XXVIII. Chain of Custody

- XXIX. Licenses and Accreditations

- XXX. Operation and Maintenance Plan

CAPITAL DEVELOPMENT BOARD BUILDING INVENTORY FORM 3

C.D.B. BUILDING NUMBER: BB029 BUILDING NAME: Mimosa Hall

USING AGENCY: 321 Dept of Mental Health/DD LOCATION: 070 Howe DEVLPMTL CTR (see 185)

BLDG. ADDRESS: 7400 West 183rd Street CITY: Tinley Park

ZIP: 60477 COUNTY: Cook HOUSE/SENATE DISTRICT: 037/19

YEAR CONSTRUCTED: 1965 GROSS SQ. FT. 30,162 TOTAL FLOORS BELOW GRADE: 1

USE OF BUILDING WHEN CONSTRUCTED(C): Assembly CURRENT PRIMARY USE (P): Assembly CURRENT SECONDARY USE (S): Business

PREDOMINATE CONSTRUCTION TYPE: Masonry and Brick

FOR USING AGENCY USE ONLY: _____

BUILDING NOTES: _____

(FOR C.D.B. USE ONLY)
ASBESTOS STATUS: _____

FORM 4

INTRODUCTION TO THE MANAGEMENT PLAN

A. Policy Statement

This Management Plan is intended to be a working document which will serve as a guide to staff, employees, occupants and visitors in minimizing the risk of exposure to asbestos fibers. The State of Illinois recognizes the serious health hazards associated with asbestos fibers. The State has conducted an inspection of this facility in order to determine whether asbestos is present, and if so, where the asbestos is located.

This Management Plan sets forth the recommended response actions for the ACM (asbestos containing material) within this facility. Further, where required, an Operations & Maintenance (O & M) Program has been established which will be implemented by facility staff.

This Plan has been reviewed by CDB, the Contracting Agency and the Using Agency and represents the policies and procedures to be implemented with respect to any ACM within this facility.

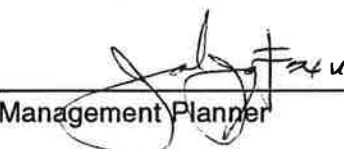
Dated: _____

Capital Development Board Representative

Dated: _____

Agency (Designated Person)

Dated: 10/26/94



Management Planner

The data linking asbestos exposure to mesothelioma is based upon many of the same epidemiological studies of workers that demonstrated an association between asbestos exposure and lung cancer. The findings are somewhat different than for lung cancer. Lower non-occupational exposures have also been associated with mesothelioma in addition to occupational exposure. Therefore, lower levels of exposure to asbestos as found in some non-occupational settings may give rise to mesothelioma. Secondly, the nature of the dose response relationship may be different from that of lung cancer. The risk continues to increase as the number of years since first exposure increases. In many cases, a latent period of more than 40 years has been described.

Gastrointestinal Cancer - Several of the epidemiological studies of workers occupationally exposed to asbestos have shown increased risks of gastrointestinal cancer including cancers of the colon, rectum, stomach and esophagus. The risk, however, does not appear to be as great as for lung cancer. To date, no association has been found between asbestos in drinking water and gastrointestinal cancer.

Asbestos Related Pleural Disease - This category of health effects includes fibrous and sometimes calcified plaques as well as diffuse thickening of the pleura and the pleural effusion. These are non-cancerous changes of the membranes surrounding the lungs and commonly occur many years after asbestos exposure. The presence of plaques suggests prior asbestos exposure but usually does not cause any symptoms or respiratory impairment.

Asbestosis - Asbestosis is a disabling lung disorder consisting of generalized scarring of the lungs which causes shortness of breath on exertion. Asbestosis has been described almost exclusively in workers with occupational exposure to high concentrations of asbestos-containing dusts. In asbestosis, there appears to be a very strong dose response relationship in that the greater the concentration of asbestos fibers, and the longer the duration of exposure, the greater the likelihood and severity of asbestosis.

As with the other asbestos related health effects, there is usually a time lag or latent period of several years before the development of disease. Once acquired, asbestosis tends to progress slowly, sometimes for years after asbestos exposure has ended.

C.D.B. BUILDING NO.: BB029

BUILDING NAME: MIMOSA HALL, BUILDING NO. 29

Mimosa Hall was constructed in 1965. Minor renovation work has been done to the building over the years.

The building has three floors; basement, first floor and second floor. The building has 30,162 square feet.

The building provides treatment, housing and care to the patients at Howe Mental Health Center.

The exterior of the building is constructed of face-brick, concrete back-up and windows.

The existing roof is a built-up roof with flashing and appears to need maintenance work.

The mechanical systems are from the date of original construction. High pressure steam from the underground service tunnel is converted to hot water and feed through the building to a radiant metal ceiling, radiators and cabinet unit heaters. Chilled water is used in the same system for air conditioning the building. Low pressure steam converted from high pressure steam also feeds mechanical units at the building. An HYAC provides ventilation to the spaces in the building.

To the best of our knowledge, no asbestos abatement work has been performed in the building.

Asbestos Containing Materials were found in this building. Friable asbestos poses a health hazard when it becomes airborne. Some materials were assumed to contain asbestos and were not sampled; no judgement regarding their relative risk to health can be made at this time.

In addition to asbestos containing insulation, this building contained other insulating materials such as fiberglass, cellulose, etc.

INSPECTION PHASE 1.

FACILITY NAME: Howe Mental Health Center

CDB BUILDING NAME & NUMBER: Mimosa Hall - CDB Building No.: BB029

CDB PROJECT NUMBER: 910-010-010

HOMOGENEOUS AREA	DESCRIPTION	QUANTITY	NUMBER SAMPLES RECOMMENDED	REMOVAL COST ESTIMATE
MFD	Carpet & Mastic over Vinyl Tile	1,680	Assume	\$
MMA	Metal Fire Door	2	Assume	\$
MMB	Fire Damper Insulation	32	3	\$
MMC	Wood Fire Door	7	Assume	\$
MMD	Exhaust Backdraft Damper Insulation	96	3	\$
MME	Canvas Vibration Damper	16	3	\$
MMF	Built-up Roof and Flashings	28,912	Assume	\$ 130,104
MTA	Transite at Cooling Tower	320	Assume	\$
				\$
				\$
				\$
				\$

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.:

**BB029
901-010-010**

USER AGENCY:

Department of Mental Health

USER LOCATION:

**(070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477**

BUILDING NAME:

Mimosa Hall

INSPECTORS:

**Jay Fox
Vahooman Mirkhaef
David Sloman**

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
TJA	Fittings on Air Cell Pipe		3		
TJB	Fittings on Cementitious Pipe		3		
TJC	Fitting on Fiberglass Pipe		3		
TPA	Air Cell Pipe Insulation		1		
TPB	Cementitious Pipe Insulation		3		
TTA	Cementitious Insulation at Booster Tank		3		

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.: BB029
901-010-010

USER AGENCY: Department of Mental Health

USER LOCATION: (070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477

BUILDING NAME: Mimosa Hall

INSPECTORS: Jay Fox
Vahooman Mirkhaef
David Sloman

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
TTB	Insulation at Chiller Tank		3		
MFA	9 X 9 Floor Tile and Mastic	X			
MFB	1 X 1 Floor Tile and Mastic	X			
MFC	Mastic Under Wood Floor	X			
MFD	Carpet Mastic over Vinyl Tile	X			
MMA	Metal Fire Door	X			

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.: BB029
901-010-010

USER AGENCY: Department of Mental Health

USER LOCATION: (070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477

BUILDING NAME: Mimosa Hall

INSPECTORS: Jay Fox
Vahooman Mirkhaef
David Sloman

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
MMB	Fire Damper Insulation	X			
MMC	Wood Fire Door	X			
MMD	Exhaust Backdraft Damper Insulation	X			
MME	Canvas Vibration Damper	X			
MMF	Built-Up Roof and Flashings	X			
MTA	Transite at Cooling Tower	X			

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.: BB029
901-010-010

USER AGENCY: Department of Mental Health

USER LOCATION: (070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477

BUILDING NAME: Mimosa Hall

INSPECTORS: Jay Fox
Vahooman Mirkhaef
David Sloman

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
SPA	Cementitious Plaster Ceiling			3	
SPB	Plaster Ceiling Brown Coat			3	

FORM 6 SUMMARY OF FINDINGS

MANAGEMENT PLAN PHASE III

Mimosa Hall No. 29

BUILDING NAME

LIST IN ORDER OF RESPONSE ACTION NUMBER

C.D.B. BUILDING NUMBER

BB029

HOMOGENEOUS AREA	MATERIAL DESCRIPTION	ACM CONTENT (%)			DAMAGE ASSESSMENT							RESPONSE ACTION	
		CHRYSOTILE	AMOSITE	OTHER	ASSUMED ACM	NO DAMAGE	SALIENT DAMAGE	SIGNIFICANT DAMAGE	NO POTENTIAL DAMAGE	POTENTIAL SIGNIFICANT DAMAGE	POTENTIAL SIGNIFICANT DAMAGE		NUMBER
TJA	Cem. Fittings @ Air Cell	10-20%										8	O&M
TJB	Cem. Fittings @ Cem. Pipe	5-15%	2-5%									8	O&M
TJC	Cem. Fittings @ Fib. Ins.	0-5%	5%									8	O&M
TPA	Air Cell Pipe Insulation	5%										8	O&M
TPB	Cementitious Pipe Ins.		30%									8	O&M
TTA	Cem. Ins. @ Booster Tank		20%									8	O&M
TTB	Cem. Ins. @ Chiller Tank		20%									8	O&M
MFA	9"x9" Floor Tile & Mastic		20%									8	O&M
MFB	1'x1' Floor Tile & Mastic											8	O&M
MFC	Mastic Under Wood Floor											8	O&M
MFD	Mastic Under Carpeting											8	O&M
MMA	Metal Fire Door Ins.											8	O&M
MMB	Ins. @ Fire Dampers											8	O&M
MMC	Wood Fire Door Insulation											8	O&M
MMD	Ins. @ Exhaust Dampers											8	O&M
MME	Canvas Vibration Damper											8	O&M
MMF	Built-Up Roof & Flashings											8	O&M
MTA	Transite Panels											8	O&M

ASBESTOS MANAGEMENT PLAN REPORT

CDB PROJECT NUMBER - 910-010-010

HOWE MENTAL HEALTH CENTER
DEPARTMENT OF MENTAL HEALTH AND
DEVELOPMENTAL DISABILITIES
GEN MECH STORE/SHOP #30
C.D.B. BUILDING #BB030
7600 WEST 183RD STREET
TINLEY PARK, IL 60477

STATE OF ILLINOIS

CAPITAL DEVELOPMENT BOARD

SPRINGFIELD, ILLINOIS

BY:

FOX & FOX ARCHITECTS & ENGINEERS
330 SOUTH WELLS STREET
CHICAGO, IL 60606
(312) 427-5592

DATE: OCT. 10, 1994

DATE SIGNED: 10/26/94

EXP. DATE: 11/30/96

IDPH LICENSE: 100-0471

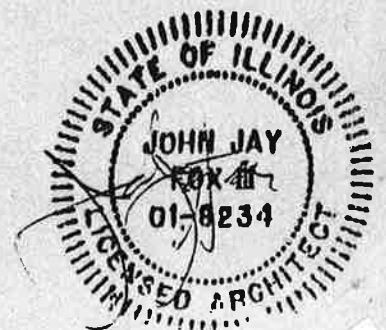
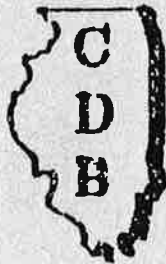


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General Mechanical Store/Shop #30

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- III. Narrative Building Description
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- VII. TJA - Cementitious Pipe Fittings on Air Cell Pipe
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- IX. TJC - Cementitious Pipe Fitting on Cementitious Pipe
- X. TMB - Cementitious Insulation on Heat Exchanger
- XI. TPA - Air Cell Pipe Insulation
- XII. TPB - Cementitious Pipe Insulation
- XIII. TTA - Cementitious Tank Insulation
- XIV. TMA - Cooler Door Insulation
- XV. MFA - 9 x 9 Floor Tile and Mastic
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- XVII. MMB - Insulation Inside Fire Damper Access Panel
- XVIII. MMC - Exhaust Back-Draft Damper Insulation
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- XX. MME - Metal Fire Doors
- XXI. MSA - Asbestos Stockpile
- XXII. SPA - Cement Plaster
- XXIII. MMA - Vibration Damper

- XXIV. Cost Summary
- XXV. Chain of Custody
- XXVI. Licenses and Accreditations
- XXVII. Operation and Maintenance Plan

CAPITAL DEVELOPMENT BOARD BUILDING INVENTORY FORM 3

C.D.B. BUILDING NUMBER: BB030 BUILDING NAME: Gen Mech Store/Shop

USING AGENCY: 321 Dept of Mental Health/DD LOCATION: 070 Howe DEVLPMTL Ctr (see 185)

BLDG. ADDRESS: 7600 West 183rd Street CITY: Tinley Park

ZIP: 60477 COUNTY: Cook HOUSE/SENATE DISTRICT: 037/19

YEAR CONSTRUCTED: 1965 GROSS SQ. FT. 48,525 TOTAL FLOORS: 1 FLOORS BELOW GRADE: ---

USE OF BUILDING WHEN CONSTRUCTED(C): Industrial CURRENT PRIMARY USE (P): Industrial CURRENT SECONDARY USE (S): Storage

PREDOMINATE CONSTRUCTION TYPE: Masonry and Brick

FOR USING AGENCY USE ONLY: _____

BUILDING NOTES: _____

(FOR C.D.B. USE ONLY)
ASBESTOS STATUS: _____

FORM 4

INTRODUCTION TO THE MANAGEMENT PLAN

A. Policy Statement

This Management Plan is intended to be a working document which will serve as a guide to staff, employees, occupants and visitors in minimizing the risk of exposure to asbestos fibers. The State of Illinois recognizes the serious health hazards associated with asbestos fibers. The State has conducted an inspection of this facility in order to determine whether asbestos is present, and if so, where the asbestos is located.

This Management Plan sets forth the recommended response actions for the ACM (asbestos containing material) within this facility. Further, where required, an Operations & Maintenance (O & M) Program has been established which will be implemented by facility staff.

This Plan has been reviewed by CDB, the Contracting Agency and the Using Agency and represents the policies and procedures to be implemented with respect to any ACM within this facility.


Dated: _____

Capital Development Board Representative

Dated: _____

Agency (Designated Person)

Dated: 10/26/94



Management Planner

The data linking asbestos exposure to mesothelioma is based upon many of the same epidemiological studies of workers that demonstrated an association between asbestos exposure and lung cancer. The findings are somewhat different than for lung cancer. Lower non-occupational exposures have also been associated with mesothelioma in addition to occupational exposure. Therefore, lower levels of exposure to asbestos as found in some non-occupational settings may give rise to mesothelioma. Secondly, the nature of the dose response relationship may be different from that of lung cancer. The risk continues to increase as the number of years since first exposure increases. In many cases, a latent period of more than 40 years has been described.

Gastrointestinal Cancer - Several of the epidemiological studies of workers occupationally exposed to asbestos have shown increased risks of gastrointestinal cancer including cancers of the colon, rectum, stomach and esophagus. The risk, however, does not appear to be as great as for lung cancer. To date, no association has been found between asbestos in drinking water and gastrointestinal cancer.

Asbestos Related Pleural Disease - This category of health effects includes fibrous and sometimes calcified plaques as well as diffuse thickening of the pleura and the pleural effusion. These are non-cancerous changes of the membranes surrounding the lungs and commonly occur many years after asbestos exposure. The presence of plaques suggests prior asbestos exposure but usually does not cause any symptoms or respiratory impairment.

Asbestosis - Asbestosis is a disabling lung disorder consisting of generalized scarring of the lungs which causes shortness of breath on exertion. Asbestosis has been described almost exclusively in workers with occupational exposure to high concentrations of asbestos-containing dusts. In asbestosis, there appears to be a very strong dose response relationship in that the greater the concentration of asbestos fibers, and the longer the duration of exposure, the greater the likelihood and severity of asbestosis.

As with the other asbestos related health effects, there is usually a time lag or latent period of several years before the development of disease. Once acquired, asbestosis tends to progress slowly, sometimes for years after asbestos exposure has ended.

C.D.B. BUILDING NO.: BB030

BUILDING NAME: GENERAL MECHANICAL STORE/SHOP, BUILDING NO. 30

The Gen Mech Store/Shop was constructed in 1965. Minor renovation work has been done to the building over the years.

The building has one floor; a first floor. The building has 48,525 square feet.

The building houses the mechanical service department and general stores for the Howe Mental Health Center.

The exterior of the building has exposed steel columns, windows and face brick. The building is framed in steel columns, beams and bar joists.

The existing roof was replaced several years ago and is in fair condition.

The mechanical systems are from the original construction. High pressure steam from the underground service tunnel is converted to low pressure steam and hot water and fed through the building to unit heaters, radiators and a radiant metal ceiling system in the sales office. A HVAC system supplies and exhausts air to the offices in the building. Exhaust fans are located throughout the warehouse and maintenance shop area.

To the best of our knowledge, no asbestos abatement work has been performed in the building.

Asbestos Containing Materials were found in this building. Friable asbestos poses a health hazard when it becomes airborne. Some materials were assumed to contain asbestos and were not sampled; no judgement regarding their relative risk to health can be made at this time.

In addition to asbestos containing insulation, this building contained other insulating materials such as fiberglass, cellulose, etc.

SUMMARY OF FINDINGS

INSPECTION PHASE 1.

FACILITY NAME: Howe Mental Health Center

CDB BUILDING NAME & NUMBER: General Mechanical Store/Shop

CDB Building No.: BB030

CDB PROJECT NUMBER: 910-010-010

HOMOGENEOUS AREA	DESCRIPTION	QUANTITY	NUMBER SAMPLES RECOMMENDED	REMOVAL COST ESTIMATE
SPA	Cement Plaster	100	3	\$
TJA	Cementitious Pipe Fitting	35 ea	3	\$
TJB	Cementitious Fitting on Fiberglass Pipe	15 ea	3	\$
TJC	Cementitious Pipe Fitting	95 ea	3	\$
TMA	Cooler Door Insulation	196 s.f	Assume	\$
TMB	Cementitious Insulation	40-50	3	\$
TPA	Air Cell Pipe Insulation	110	1	\$
TPB	Cementitious Pipe Insulation	800 \$	3	\$
TTA	Cementitious Tank Insulation	50	3	\$
MFA	9 x 9 Floor Tile and Mastic	4,000	Assume	\$
MFB	1 x 1 Floor Tile and Mastic	50	Assume	\$
MMA	Vibration Damper	50	3	\$

INSPECTION PHASE 1.

FACILITY NAME: Howe Mental Health Center

CDB BUILDING NAME & NUMBER: General Mechanical Store/Shop
CDB Building No.: BB030

CDB PROJECT NUMBER: 910-010-010

HOMOGENEOUS AREA	DESCRIPTION	QUANTITY	NUMBER SAMPLES RECOMMENDED	REMOVAL COST ESTIMATE
MHB	Insulation inside Fire Damper Access Panel	5	Assume	\$
MHC	Exhaust Backdraft Damper Insulation	15	Assume	\$
MHD	Mastic sealant around Conduit	5-10	Assume	\$
MHE	Metal Fire Doors	2	Assume	\$
MSA	Asbestos Stockpile		Assume	
				\$
				\$
				\$
				\$
				\$
				\$
				\$
				\$

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.:

**BB030
901-010-010**

USER AGENCY:

Department of Mental Health

USER LOCATION:

**(070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477**

BUILDING NAME:

General Mechanical Store/Shop

INSPECTORS:

**Jay Fox
Vahooman Mirkhaef
David Sloman**

HOMOGENEOUS AREA	DESCRIPTION	ACH			NOTES
		ASSUMED	POS	NEG	
TJA	Cementitious Pipe Fitting On Air Cell Pipe		3		
TJB	Cementitious Fitting on Fiberglass Pipe		3		
TJC	Cementitious Pipe Fitting on Cementitious Pipe		3		
TMB	Cementitious Insulation on Heat Exchanger		3		
TPA	Air Cell Pipe Insulation		1		
TPB	Cementitious Pipe Insulation		3		
TTA	Cementitious Tank Insulation		3		

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.:

**BB030
901-010-010**

USER AGENCY:

Department of Mental Health

USER LOCATION:

**(070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477**

BUILDING NAME:

General Mechanical Store/Shop

INSPECTORS:

**Jay Fox
Vahooman Mirkhaef
David Sloman**

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
TMA	Cooler Door Insulation	X			
MFA	9 X 9 Floor Tile and Mastic	X			
MFB	1 X 1 Tile/Mastic Bathroom	X			
MMB	Insulation Inside Fire Damper Access Panel	X			
MMC	Exhaust Backdraft Damper Insulation	X			
MMD	Mastic Sealant around Conduit Insulation	X			

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.: BB030
901-010-010

USER AGENCY: Department of Mental Health

USER LOCATION: (070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477

BUILDING NAME: General Mechanical Store/Shop

INSPECTORS: Jay Fox
Vahooman Mirkhaef
David Sloman

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
MME	Metal Fire Doors	X			
MSA	Asbestos Stockpile	X			
SPA	Cement Plaster			3	
MMA	Vibration Damper Panel			3	

FORM 6 - SUMMARY OF FINDINGS

MANAGEMENT PLAN PHASE III

BUILDING NAME

Gen Mech Store/Shop #30

LIST IN ORDER OF RESPONSE ACTION NUMBER

C.D.B. BUILDING NUMBER BB030

HOMOGENEOUS AREA	MATERIAL DESCRIPTION	ACM CONTENT (%)			DAMAGE ASSESSMENT							RESPONSE ACTION			
		CHRYSOTILE	AMOSITE	OTHER	ASSUMED ACM	NO DAMAGE	SALIENT	DAMAGE	SIGNIFICANT DAMAGE	NO POTENTIAL DAMAGE	POTENTIAL DAMAGE		POTENTIAL SIGNIFICANT DAMAGE		
TJA	Cem. Fittings @ Air Cell Ins.	Trace	5%						X				8	O&M	(I.E. REMOVE, REPAIR, ENCLOSE, ENCAPSULATE, OR O&M)
TJB	Cem. Fittings @ Fib. Ins.	1-5%	Trace						X				7	O&M	
TJC	Cem. Fittings @ Cem. Ins.	Trace	Trace						X				8	O&M	
TMB	Cem. Ins. @ Heat Exchanger & Booster Pump	Trace	30%							X			7	O&M	
TPA	Air Cell Pipe Insulation	5%							X				8	O&M	
TPB	Cem. Pipe Insulation	0-10%	20%						X				8	O&M	
TTA	Cem. Ins. @ Booster Tank	5-25%	25%						X				8	O&M	
TMA	Cooler Door Insulation						X						8	O&M	
MFA	9"x9" Floor Tile & Mastic				X								8	O&M	
MFB	1'x1' Floor Tile & Mastic				X								8	O&M	
MMB	Insulation at Fire Dampers				X								8	O&M	
MMC	Ins. at Exhaust Back-Dampers				X								8	O&M	
MMD	Mastic Sealant @ Under-ground Conduit				X								8	O&M	
MME	Insulation @ Metal Fire Doors				X						X		7	O&M	
					X							X	8	O&M	

ASBESTOS MANAGEMENT PLAN REPORT

CDB PROJECT NUMBER - 910-010-010

HOWE MENTAL HEALTH CENTER
DEPARTMENT OF MENTAL HEALTH AND
DEVELOPMENTAL DISABILITIES
INCINERATOR #37
C.D.B. BUILDING #BB037
7600 WEST 183RD STREET
TINLEY PARK, IL 60477

STATE OF ILLINOIS

CAPITAL DEVELOPMENT BOARD

SPRINGFIELD, ILLINOIS

BY:
FOX & FOX ARCHITECTS & ENGINEERS
330 SOUTH WELLS STREET
CHICAGO, IL 60606
(312) 427-5592

DATE: OCT. 10, 1994

DATE SIGNED: 10/26/94

EXP. DATE: 11/30/96

IDPH LICENSE: 100-0471

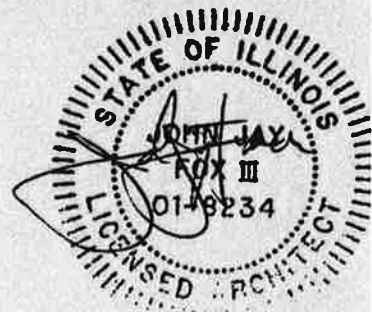
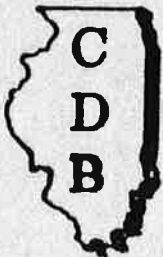


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Incinerator No. 37

- I. Building Inventory
- II. Introduction
- III. Narrative Building Description
- IV. Summary of Findings
- V. Site Plan
- VI. Floor Plans
- VII. MMB - Roofing Material, Flashing and Mastic
- VIII. MMA - Vibration Damper Insulation

- IX. Cost Summary
- X. Licenses and Accreditations
- XI. Operation and Maintenance Plan

CAPITAL DEVELOPMENT BOARD BUILDING INVENTORY FORM 3

C.D.B. BUILDING NUMBER: BB037 BUILDING NAME: Incinerator

USING AGENCY: 321 Dept of Mental Health/DD LOCATION: 070 Howe DEVLPMTL CTR (see 185)

BLDG. ADDRESS: 7600 West 183rd Street CITY: Tinley Park

ZIP: 60477 COUNTY: Cook HOUSE/SENATE DISTRICT: 037/19

YEAR CONSTRUCTED: 1953 GROSS SQ. FT. 1,689 TOTAL FLOORS: 2 FLOORS BELOW GRADE: 1

USE OF BUILDING WHEN CONSTRUCTED(C): Storage CURRENT PRIMARY USE (P): Storage CURRENT SECONDARY USE (S): ---

PREDOMINATE CONSTRUCTION TYPE: Brick

FOR USING AGENCY USE ONLY: _____

BUILDING NOTES: _____

(FOR C.D.B. USE ONLY) ASBESTOS STATUS: _____

FORM 4

INTRODUCTION TO THE MANAGEMENT PLAN

A. Policy Statement

This Management Plan is intended to be a working document which will serve as a guide to staff, employees, occupants and visitors in minimizing the risk of exposure to asbestos fibers. The State of Illinois recognizes the serious health hazards associated with asbestos fibers. The State has conducted an inspection of this facility in order to determine whether asbestos is present, and if so, where the asbestos is located.

This Management Plan sets forth the recommended response actions for the ACM (asbestos containing material) within this facility. Further, where required, an Operations & Maintenance (O & M) Program has been established which will be implemented by facility staff.

This Plan has been reviewed by CDB, the Contracting Agency and the Using Agency and represents the policies and procedures to be implemented with respect to any ACM within this facility.

Dated: _____

Capital Development Board Representative

Dated: _____

Agency (Designated Person)

Dated: 10/20/94



Management Planner

somewhat different than for lung cancer. Lower non-occupational exposures have also been associated with mesothelioma in addition to occupational exposure. Therefore lower levels of exposure to asbestos as found in some non-occupational settings may give rise to mesothelioma. Secondly, the nature of the dose response relationship may be different from that of lung cancer. The risk continues to increase as the number of years since first exposure increases. In many cases, a latent period of more than 40 years has been described.

Gastrointestinal Cancer - Several of the epidemiological studies of workers occupationally exposed to asbestos have shown increased risks of gastrointestinal cancer including cancers of the colon, rectum, stomach and esophagus. The risk, however, does not appear to be as great as for lung cancer. To date, no association has been found between asbestos in drinking water and gastrointestinal cancer.

Asbestos Related Pleural Disease - This category of health effects includes fibrous and sometimes calcified plaques as well as diffuse thickening of the pleura and the pleural effusion. These are non-cancerous changes of the membranes surrounding the lungs and commonly occur many years after asbestos exposure. The presence of plaques suggests prior asbestos exposure but usually does not cause any symptoms or respiratory impairment.

Asbestosis - Asbestosis is a disabling lung disorder consisting of generalized scarring of the lungs which causes shortness of breath on exertion. Asbestosis has been described almost exclusively in workers with occupational exposure to high concentrations of asbestos-containing dusts. In asbestosis, there appears to be a very strong dose response relationship in that the greater the concentration of asbestos fibers, and the longer the duration of exposure, the greater the likelihood and severity of asbestosis.

As with the other asbestos related health effects, there is usually a time lag or latent period of several years before the development of disease. Once acquired, asbestosis tends to progress slowly, sometimes for years after asbestos exposure has ended.

C.D.B. BUILDING NO.: BB037

BUILDING NAME: INCINERATOR, BUILDING NO. 37

The Incinerator Building was constructed in 1953. Minor renovation work has been done to the building over the years.

The building has 2 floors; a partial basement and a first floor. The building has 1,689 square feet.

The building was used to incinerate materials from the Tinley Park Mental Health Center. The building is abandoned. Access to the basement area was denied because it was completely under water. The incinerator is located in the basement area.

The building elevations are constructed of face-brick, exposed steel and a window wall. The building is framed in steel columns and beams.

The existing roof appears to be from the original installation and is in need of repair.

The mechanical systems are abandoned and not in use and in need of repair. The oil-fired unit heater provided heating to the building. The drawings show an exhaust system in the basement exhausting through an area well. The incinerator feeds to an exterior chimney located adjacent to the building.

To the best of our knowledge, no asbestos abatement work has been performed in the building. However, no pipe covering of any kind was seen at the first floor in the toilet room or water service lines.

No asbestos was detected in any of the material sampled. Areas assumed to contain asbestos were not sampled and no determination of their content can be made. Any asbestos in this building would cause relatively little hazard.

SUMMARY OF FINDINGS

INSPECTION PHASE 1.

FACILITY NAME: Howe Mental Health Center

CDB BUILDING NAME & NUMBER: Incinerator - CDB Building No.: BB037

CDB PROJECT NUMBER: 910-010-010

HOMOGENEOUS AREA	DESCRIPTION	QUANTITY	NUMBER SAMPLES RECOMMENDED	REMOVAL COST ESTIMATE
MMA	Vibration Damper Insulation	15 s.f.	3	\$
MMB	Roofing Material Flashing and Mastic	1244	Assume	\$
				\$
				\$
				\$
				\$
				\$
				\$
				\$
				\$
				\$
				\$
				\$
				\$
				\$

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.: BB037
901-010-010

USER AGENCY: Department of Mental Health

USER LOCATION: (070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477

BUILDING NAME: Incinerator

INSPECTORS: Jay Fox
Vahooman Mirkhaef
David Sloman

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
MMB	Roofing Material Flashing and Mastic	X			
MMA	Vibration Damper Insulation			3	

FORM 6 - SUMMARY OF FINDINGS

MANAGEMENT PLAN PHASE III

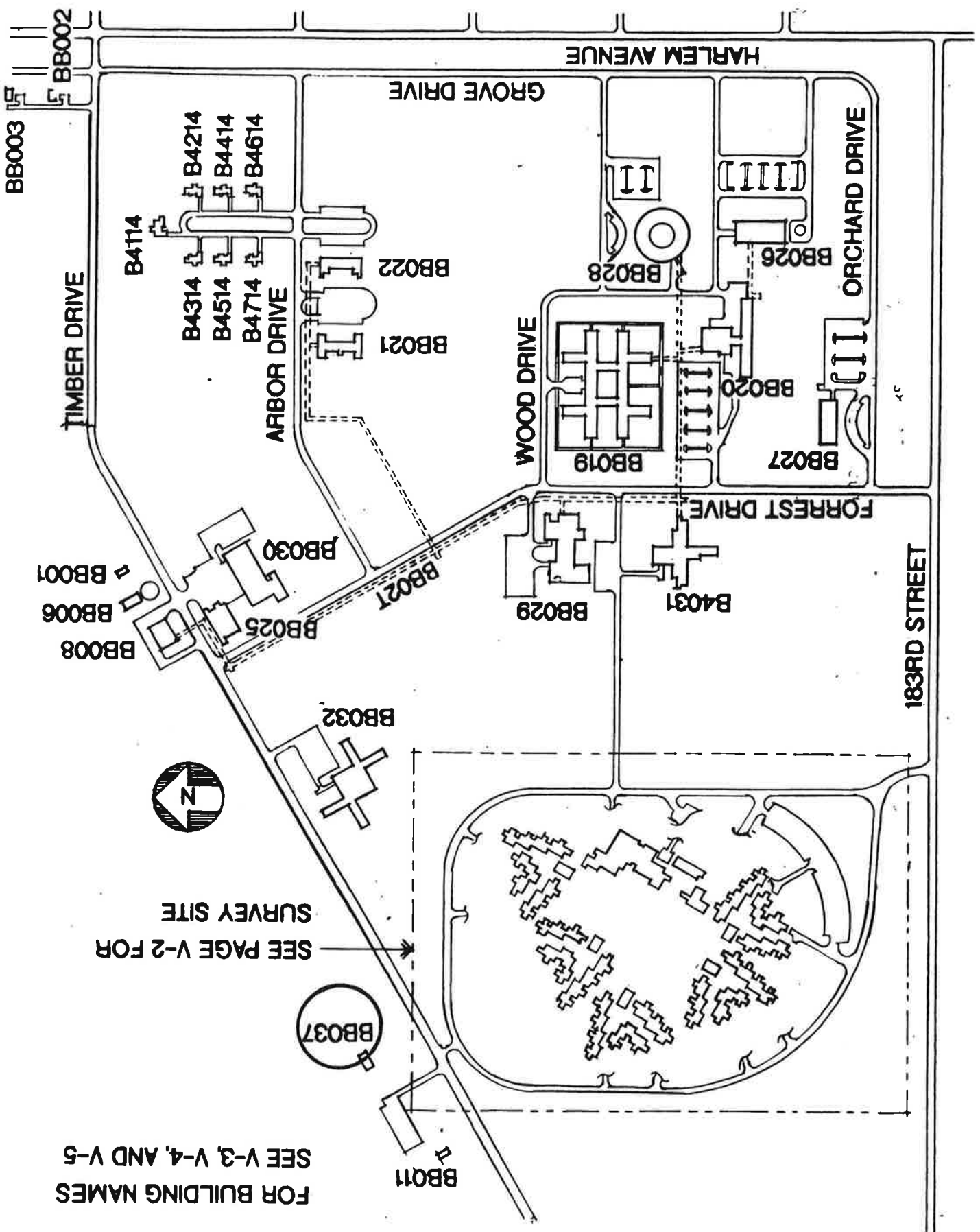
BUILDING NAME

Incinerator #37

LIST IN ORDER OF RESPONSE ACTION NUMBER

C.D.B. BUILDING NUMBER BB037

HOMOGENEOUS AREA	MATERIAL DESCRIPTION	ACM CONTENT (%)				DAMAGE ASSESSMENT							RESPONSE ACTION	
		CHRYSOTILE	AMOSITE	OTHER	ASSUMED ACM	NO DAMAGE	SALIENT	DAMAGE	SIGNIFICANT DAMAGE	NO POTENTIAL DAMAGE	POTENTIAL DAMAGE	POTENTIAL SIGNIFICANT DAMAGE		NUMBER
MMB	Roofing Material				x					x			8	O&M



FOR BUILDING NAMES
SEE V-3, V-4, AND V-5

SEE PAGE V-2 FOR
SURVEY SITE



ASBESTOS MANAGEMENT PLAN REPORT

CDB PROJECT NUMBER - 910-010-010

HOWE MENTAL HEALTH CENTER
DEPARTMENT OF MENTAL HEALTH AND
DEVELOPMENTAL DISABILITIES
COTTAGE #1 - BUILDING #24
C.D.B. BUILDING #B4114
7600 WEST 183RD STREET
TINLEY PARK, IL 60477

STATE OF ILLINOIS

CAPITAL DEVELOPMENT BOARD

SPRINGFIELD, ILLINOIS

BY:
FOX & FOX ARCHITECTS & ENGINEERS
330 SOUTH WELLS STREET
CHICAGO, IL 60606
(312) 427-5592

DATE: OCT. 10, 1994

DATE SIGNED: 10/26/94

EXP. DATE: 11/30/96

IDPH LICENSE: 100-0471

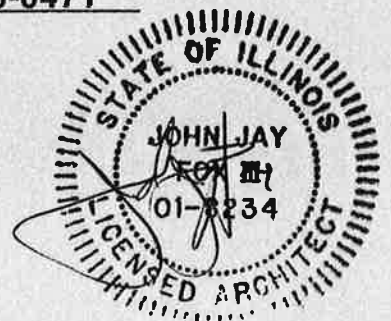
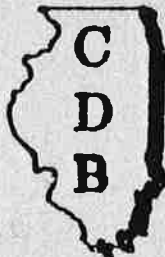


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- IV. Summary of Findings
- V. Site Plan
- VI. Floor Plans
- VII. MFA - 1 x 1 Floor Tile and Mastic
- VIII. MMA - Metal Fire Doors
- IX. MMB - Fire Damper Insulation
- X. MMC - Exhaust Back-Draft Damper Insulation
- XI. SPA - Veneer Plaster Ceiling and Walls
- XII. SPB - Veneer Plaster Walls (Remodeled 1988)
- XIII. SPC - Veneer Plaster Walls (Remodeled 1986)
- XIV. SPD - Veneer Plaster Walls (Remodeled 1979)
- XV. SPE - Veneer Plaster Walls (Remodeled 1984)

- XVI. Cost Summary
- XVII. Chain of Custody
- XVIII. Licenses and Accreditations
- XIX. Operation and Maintenance Plan

FORM 4

INTRODUCTION TO THE MANAGEMENT PLAN

A. Policy Statement

This Management Plan is intended to be a working document which will serve as a guide to staff, employees, occupants and visitors in minimizing the risk of exposure to asbestos fibers. The State of Illinois recognizes the serious health hazards associated with asbestos fibers. The State has conducted an inspection of this facility in order to determine whether asbestos is present, and if so, where the asbestos is located.

This Management Plan sets forth the recommended response actions for the ACM (asbestos containing material) within this facility. Further, where required, an Operations & Maintenance (O & M) Program has been established which will be implemented by facility staff.

This Plan has been reviewed by CDB, the Contracting Agency and the Using Agency and represents the policies and procedures to be implemented with respect to any ACM within this facility.

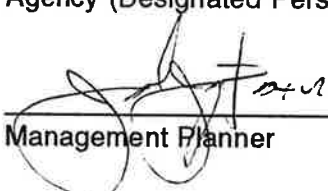
Dated: _____

Capital Development Board Representative

Dated: _____

Agency (Designated Person)

Dated: 10/26/94



Management Planner

The data linking asbestos exposure to mesothelioma is based upon many of the same epidemiological studies of workers that demonstrated an association between asbestos exposure and lung cancer. The findings are somewhat different than for lung cancer. Lower non-occupational exposures have also been associated with mesothelioma in addition to occupational exposure. Therefore, lower levels of exposure to asbestos as found in some non-occupational settings may give rise to mesothelioma. Secondly, the nature of the dose response relationship may be different from that of lung cancer. The risk continues to increase as the number of years since first exposure increases. In many cases, a latent period of more than 40 years has been described.

Gastrointestinal Cancer - Several of the epidemiological studies of workers occupationally exposed to asbestos have shown increased risks of gastrointestinal cancer including cancers of the colon, rectum, stomach and esophagus. The risk, however, does not appear to be as great as for lung cancer. To date, no association has been found between asbestos in drinking water and gastrointestinal cancer.

Asbestos Related Pleural Disease - This category of health effects includes fibrous and sometimes calcified plaques as well as diffuse thickening of the pleura and the pleural effusion. These are non-cancerous changes of the membranes surrounding the lungs and commonly occur many years after asbestos exposure. The presence of plaques suggests prior asbestos exposure but usually does not cause any symptoms or respiratory impairment.

Asbestosis - Asbestosis is a disabling lung disorder consisting of generalized scarring of the lungs which causes shortness of breath on exertion. Asbestosis has been described almost exclusively in workers with occupational exposure to high concentrations of asbestos-containing dusts. In asbestosis, there appears to be a very strong dose response relationship in that the greater the concentration of asbestos fibers, and the longer the duration of exposure, the greater the likelihood and severity of asbestosis.

As with the other asbestos related health effects, there is usually a time lag or latent period of several years before the development of disease. Once acquired, asbestosis tends to progress slowly, sometimes for years after asbestos exposure has ended.

Narrative

The Cottage was constructed in 1957 for the patients at the Howe Mental Health Center. The building is currently unoccupied by patients. Remodeling work has been done to the interior plaster ceiling and walls to provide more housing area, security and mechanical rooms. The engineering staff at Tinley Park indicated that four separate remodeling projects were completed over the years in 1979, 1984, 1986 and 1988.

The building is single story and has a square footage of 2,833 square feet. There is a crawl space and no attic.

The exterior wall system is face brick with common brick back-up and plaster interior walls and ceilings. Bar joists and metal deck support the crawl space. The roof is pitched and has shingles, gutters and downspouts and is supported by roof trusses framing into the exterior walls.

The building is heated by a gas forced air system with supply and return ducts. The HVAC system appears in good working order. The HVAC replaced the steam supplied heating system in the building.

An asbestos abatement project was completed several years ago removing all asbestos pipe covering from the steam and water lines.

SUMMARY OF FINDINGS

INSPECTION PHASE I

CDB BUILDING NO./PROJECT NO.:

**B4114
910-010-010**

USER AGENCY:

Department of Mental Health/DD

USER LOCATION:

**(070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477 - Cook
County**

BUILDING NAME:

Cottage No.: 1, Building No.: 24

INSPECTORS:

**Vahooman Mirkhaef (I-057)
Jay Fox (I-0471)**

HOMOGENEOUS AREA	DESCRIPTION	QUANTITY	NUMBER SAMPLES RECOMMENDED	REMOVAL COST ESTIMATE
SPA	Veneer Plaster Ceiling and Walls	3700	5	
SPB	Veneer Plaster Wall Remodeled 1988	40	3	
SPC	Veneer Plaster Walls Remodeled 1986	1540	5	
SPD	Veneer Plaster Wall Remodeled 1979	160	3	
SPE	Veneer Plaster Walls Remodeled 1984	25	3	
MFA	1 X 1 Floor Tile and Mastic	3050	Assumed ACM	

INSPECTION PHASE I

CDB BUILDING NO./PROJECT NO.:

**B4114
910-010-010**

USER AGENCY:

Department of Mental Health/DD

USER LOCATION:

**(070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477 - Cook
County**

BUILDING NAME:

Cottage No.: 1, Building No.: 24

INSPECTORS:

**Vahooman Mirkhaef (I-057)
Jay Fox (I-0471)**

HOMOGENEOUS AREA	DESCRIPTION	QUANTITY	NUMBER SAMPLES RECOMMENDED	REMOVAL COST ESTIMATE
MMA	Insulation Inside Metal Fire Doors	5	Assumed ACM	
MMB	Fire Damper Insulation	30	Assumed ACM	
MMC	Exhaust Backdraft Damper Insulation	10	Assumed ACM	

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.:

**B4114
901-010-010**

USER AGENCY:

Department of Mental Health

USER LOCATION:

**(070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477**

BUILDING NAME:

Cottage No.: 1, Building No.: 24

INSPECTORS:

**Vahooman Mirkhaef
Jay Fox
David Sloman**

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
MFA	1 X 1 Floor Tile and Mastic	X			
MMA	Metal Fire Doors	X			
MMB	Fire Damper Insulation	X			
MMC	Exhaust Backdraft Damper Insulation	X			
SPA	Veneer Plaster Ceiling and Walls			7	
SPB	Veneer Plaster Ceiling (Remodeled 1988)			3	

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.: B4114
901-010-010

USER AGENCY: Department of Mental Health

USER LOCATION: (070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477

BUILDING NAME: Cottage No.: 1, Building No.: 24

INSPECTORS: Vahooman Mirkhaef
Jay Fox
David Sloman

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
SPC	Veneer Plaster Walls (Remodeled 1986)			7	
SPD	Veneer Plaster Walls (Remodeled 1979)			5	
SPE	Veneer Plaster Walls (Remodeled 1984)			3	

FORM 6 SUI ARY OF FINDINGS

MANAGEMENT PLAN PHASE III

BUILDING NAME

Cottage #1 - Building #24

LIST IN ORDER OF RESPONSE ACTION NUMBER

C.D.B. BUILDING NUMBER B4114

HOMOGENEOUS AREA	MATERIAL DESCRIPTION	ACM CONTENT (%)			DAMAGE ASSESSMENT								RESPONSE ACTION	
		CHRYSOTILE	AMOSITE	OTHER	ASSUMED ACM	NO DAMAGE	SALENT	DAMAGE	SIGNIFICANT DAMAGE	NO POTENTIAL DAMAGE	POTENTIAL DAMAGE	POTENTIAL SIGNIFICANT DAMAGE		NUMBER
MFA	1 x 1 Floor Tile and Mastic				x								8	O&M
MMA	Metal Fire Door Insulation				x								8	O&M
MMB	Fire Damper Insulation				x								8	O&M
MMC	Exhaust Back-Draft Damper Insulation				x								8	O&M

ASBESTOS MANAGEMENT PLAN REPORT

CDB PROJECT NUMBER - 910-010-010

HOWE MENTAL HEALTH CENTER
DEPARTMENT OF MENTAL HEALTH AND
DEVELOPMENTAL DISABILITIES
CEDAR HALL #32
C.D.B. BUILDING #BB032
7600 WEST 183RD STREET
TINLEY PARK, IL 60477

STATE OF ILLINOIS

CAPITAL DEVELOPMENT BOARD

SPRINGFIELD, ILLINOIS

BY:
FOX & FOX ARCHITECTS & ENGINEERS
330 SOUTH WELLS STREET
CHICAGO, IL 60606
(312) 427-5592

DATE: OCT. 10, 1994

DATE SIGNED: 10/26/94

EXP. DATE: 11/30/96

IDPH LICENSE: 100-0471

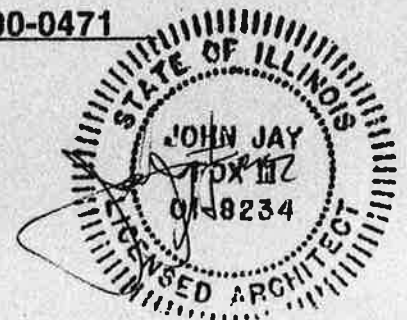


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Cedar Hall No. 32

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- IV. Summary of Findings
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- VII. TJA - Cementitious Fitting on Air Cell Pipe
- VIII. TJB - Cementitious Fittings on Fiberglass Pipe
- IX. TJC - Cementitious Fittings on Cementitious Pipe
- X. TPB- Cementitious Pipe Insulation
- XI. MFA - 1 x 1 Floor Tile with Mastic
- XII. MFB - 9 x9 Floor Tile and Mastic
- XIII. MFC - Sheet Goods with Mastic
- XIV. MMA - Metal Fire Door Insulation
- XV. MMD - Built-Up Roof
- XVI. MME - Mastic Under Wood Floor
- XVII. MMF - Exhaust Back-Draft Damper
- XVIII. MMG - Fire Damper Insulation
- XIX. SPA - Veneer Plaster Ceiling
- XX. SPB - Veneer Plaster Ceiling, Dark, Specks
- XXI. SPC - Badge Plaster Ceiling
- XXII. TPA - Air Cell Pipe Insulation
- XXIII. MCA - 2 x 4 Ceiling Tile
- XXIV. MCB - 2 x 4 Ceiling Tile - Fissured
- XXV. MMB - Circulator on Water Tank
- XXVI. MMC - Canvas Vibration Damper
- XXVII. Cost Summary
- XXVIII. Chain of Custody
- XXIX. Licenses and Accreditations
- XXX. Operation and Maintenance Plan

FORM 4

INTRODUCTION TO THE MANAGEMENT PLAN

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This Management Plan sets forth the recommended response actions for the ACM (asbestos containing material) within this facility. Further, where required, an Operations & Maintenance (O & M) Program has been established which will be implemented by facility staff.

This Plan has been reviewed by CDB, the Contracting Agency and the Using Agency and represents the policies and procedures to be implemented with respect to any ACM within this facility.

Dated: _____

Capital Development Board Representative

Dated: _____

Agency (Designated Person)

Dated: 10/26/94



Management Planner

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As with the other asbestos related health effects, there is usually a time lag or latent period of several years before the development of disease. Once acquired, asbestosis tends to progress slowly, sometimes for years after asbestos exposure has ended.

CDB BUILDING NO.: BB032

BUILDING NAME: CEDAR HALL, BUILDING NO. 32

Cedar Hall was constructed in 1963. Minor renovation work has been done to the building over the years.

The building has two floors; first floor and second floor. The building has 28,934 square feet.

The building provides treatment, housing and care to the patients at the Howe Mental Health Center. The building is presently not in use for patients.

The exterior of the building is constructed of face-brick, concrete block back-up and windows.

The existing roof is a built-up roof with flashing and appears to need maintenance work.

The mechanical systems are from the original date of construction. Hot water supply and return at the first floor mechanical room feeds five HYAC mechanical rooms located at the second floor. The HYAC system provides ventilation to the building.

It appears that asbestos abatement work has been performed at the first floor mechanical room. To the best of our knowledge, no other asbestos abatement work has been performed in the building.

Asbestos Containing Materials were found in this building. Friable asbestos poses a health hazard when it becomes airborne. Some materials were assumed to contain asbestos and were not sampled; no judgement regarding their relative risk to health can be made at this time.

In addition to asbestos containing insulation, this building contained other insulating materials such as fiberglass, cellulose, etc.

SUMMARY OF FINDINGS

INSPECTION PHASE I

FACILITY NAME: Howe Mental Health Center
CDB BUILDING NAME & NUMBER: Cedar Hall
CDB PROJECT NUMBER: CDB Building No.: BB032
 910-010-010

HOMOGENEOUS AREA	DESCRIPTION	QUANTITY	NUMBER SAMPLES RECOMMENDED	REMOVAL COST ESTIMATE
SPA	Veneer Plaster Ceiling	1592	5	
SPB	Veneer Plaster Ceiling, Dark, Specks	3088	5	\$ 42,925
SPC	Badge Plaster Ceiling	32	3	
TJA	Cementitious Fitting on Air Cell Pipe	5	1	
TJB	Cementitious Fittings on Fiberglass Pipe	125	3	
TJC	Cementitious Fittings on Cementitious Pipe	36	3	
TPA	Air Cell Pipe Insulation	602	3	\$ 33,291
TPB	Cementitious Pipe Insulation	120	3	

INSPECTION PHASE I

FACILITY NAME:

Howe Mental Health Center

CDB BUILDING NAME & NUMBER:

**Cedar Hall
CDB Building No.: BB032
910-010-010**

CDB PROJECT NUMBER:

HOMOGENEOUS AREA	DESCRIPTION	QUANTITY	NUMBER SAMPLES RECOMMENDED	REMOVAL COST ESTIMATE
MCA	2 X 4 Ceiling Tile	416	3	
MCB	2 X 4 Ceiling Tile - Fissured	64	3	
MFA	1 X 1 Floor Tile with Mastic	352	Assume	
MFB	9 X 9 Floor Tile and Mastic	1996	Assume	
MFC	Sheet Goods With Mastic	22640	Assume	\$193,572
MMA	Metāl Fire Door Insulation	8 each	Assume	
MMB	Circulator on Water Tank	1	3	
MMC	Canvas Vibration Damper	4 each	3	

INSPECTION PHASE I

FACILITY NAME:

Howe Mental Health Center

CDB BUILDING NAME & NUMBER:

**Cedar Hall
CDB Building No.: BB032**

CDB PROJECT NUMBER:

910-010-010

HOMOGENEOUS AREA	DESCRIPTION	QUANTITY	NUMBER SAMPLES RECOMMENDED	REMOVAL COST ESTIMATE
MMD	Built-Up Roof	4,900	Assume	
MME	Mastic Under Wood Floor	3168	Assume	\$27,086
MMF	Exhaust Back Draft Damper Insulation	8 each	Assume	
MMG	Fire Damper Insulation	4	Assume	

SUMMARY OF FINDINGS

SAMPLING PHASE II

BB032

CDB BUILDING NO./PROJECT NO.:

901-010-010

USER AGENCY:

Department of Mental Health

USER LOCATION:

(070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477

BUILDING NAME:

Cedar Hall

INSPECTORS:

Jay Fox
Vahooman Mirkhaef
David Sloman

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
TJA	Cementitious Fittings On Air Cell Pipe		3		
TJB	Cementitious Fittings On Fiber Glass Pipe		3		
TJC	Cementitious Fittings On Cementitious Pipe		3		
TPB	Cementitious Pipe Insulation		3		
MFA	1 x 1 Floor Tile With Mastic	X			
MFB	9 x 9 Floor Tile With Mastic	X			

SUMMARY OF FINDINGS

SAMPLING PHASE II

BB032

CDB BUILDING NO./PROJECT NO.:

901-010-010

USER AGENCY:

Department of Mental Health

USER LOCATION:

**(070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477**

BUILDING NAME:

Cedar Hall

INSPECTORS:

**Jay Fox
Vahooman Mirkhaef
David Sloman**

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
MFC	Sheet Goods With Mastic	X			
MMA	Metal Fire Door Insulation	X			
MMD	Built-Up Roof	X			
MME	Mastic Under Wood Floor	X			
MMF	Exhaust Back Draft Damper	X			
MMG	Fire Damper Insulation	X			

SUMMARY OF FINDINGS

SAMPLING PHASE II

BB032

CDB BUILDING NO./PROJECT NO.:

901-010-010

USER AGENCY:

Department of Mental Health

USER LOCATION:

**(070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477**

BUILDING NAME:

Cedar Hall

INSPECTORS:

**Jay Fox
Vahooman Mirkhaef
David Sloman**

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
SPA	Veneer Plaster Ceiling			5	
SPB	Veneer Plaster Ceiling, Dark Speckled			5	
SPC	Badge Plaster Ceiling			1	
TPA	Air Cell Pipe Insulation			1	
MCA	2 x 4 Ceiling Tile			3	
MCB	2 x 4 Ceiling Tile - Fissured			3	

SUMMARY OF FINDINGS

SAMPLING PHASE II

BB032

CDB BUILDING NO./PROJECT NO.:

901-010-010

USER AGENCY:

Department of Mental Health

USER LOCATION:

**(070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477**

BUILDING NAME:

Cedar Hall

INSPECTORS:

**Jay Fox
Vahooman Mirkhaef
David Sloman**

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
MMB	Circulator On Water Tank			3	
MMC	Canvas Vibration Damper			3	

FORM 6 - SUMMARY OF FINDINGS

MANAGEMENT PLAN PHASE III

BUILDING NAME Cedar Hall No. 32

C.D.B. BUILDING NUMBER BB032

LIST IN ORDER OF RESPONSE ACTION NUMBER

HOMOGENEOUS AREA	MATERIAL DESCRIPTION	ACM CONTENT (%)				NO DAMAGE	SALIENT DAMAGE	SIGNIFICANT DAMAGE	NO POTENTIAL DAMAGE	POTENTIAL SIGNIFICANT DAMAGE	DAMAGE ASSESSMENT	
		CHRYSOTILE	AMOSITE	OTHER	ASSUMED ACM						RESPONSE ACTION	DESCRIPTION (I.E. REMOVE, REPAIR, ENCLOSE, ENCAPSULATE, OR O&M)
TJA	Cem. Fit. @ Air Cell Ins.	1%	4%								8	O&M
TJB	Cem. Fit. @ Fib. Ins.	5%	5%								8	O&M
TJC	Cem. Fit @ Cem. Ins.	5%	5%								5	O&M
TPB	Cem. Pipe Insulation	3-5%	2-5%								3	O&M
MFA	1'x1' Floor Tile & Mastic				x						8	O&M
MFB	9"x9" Floor Tile & Mastic				x						8	O&M
MFC	Mastic @ Sheet Goods				x						8	O&M
MMA	Metal Fire Door Insulation				x						8	O&M
MMD	Built-Up Roof & Flashings				x						8	O&M
MME	Mastic Under Wood Floor				x						8	O&M
MMF	Ins. @ Exhaust Damper				x						8	O&M
MMG	Fire Damper Insulation				x						8	O&M

ASBESTOS MANAGEMENT PLAN REPORT

CDB PROJECT NUMBER - 910-010-010

HOWE MENTAL HEALTH CENTER
DEPARTMENT OF MENTAL HEALTH AND
DEVELOPMENTAL DISABILITIES
COTTAGE #6 - BUILDING #40
C.D.B. BUILDING #B4614
7600 WEST 183RD STREET
TINLEY PARK, IL 60477

STATE OF ILLINOIS

CAPITAL DEVELOPMENT BOARD

SPRINGFIELD, ILLINOIS

BY:
FOX & FOX ARCHITECTS & ENGINEERS
330 SOUTH WELLS STREET
CHICAGO, IL 60606
(312) 427-5592

DATE: OCT. 10, 1994

DATE SIGNED: 10/26/94

EXP. DATE: 11/30/96

IDPH LICENSE: 100-0471

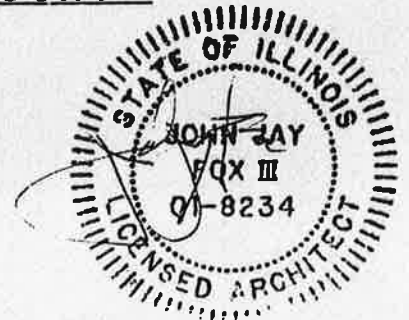
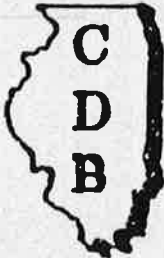


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Cottage #6 - Building #40

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- VIII. MMA - Metal Fire Doors
- IX. MMB - Fire Damper Insulation
- X. MMC - Exhaust Back-Draft Damper Insulation
- XI. SPA - Veneer Plaster Ceiling and Walls
- XII. SPB - Veneer Plaster Walls (Remodeled 1988)
- XIII. SPC - Veneer Plaster Walls (Remodeled 1986)
- XIV. SPD - Veneer Plaster Walls (Remodeled 1979)
- XV. SPE - Veneer Plaster Walls (Remodeled 1984)

- XVI. Cost Summary
- XVII. Chain of Custody
- XVIII. Licenses and Accreditations
- XIX. Operation and Maintenance Plan

CAPITAL DEVELOPMENT BOARD BUILDING INVENTORY FORM 3

C.D.B. BUILDING NUMBER: 84614 BUILDING NAME: Cottage #6 - Bldg #40

USING AGENCY: 321 Department of Mental Health LOCATION: 070 Howe Development Center

BLDG. ADDRESS: 7600 W. 183rd Street CITY: Tinley Park, Illinois

ZIP: 60477 COUNTY: Cook HOUSE/SENATE DISTRICT: 037/19

YEAR CONSTRUCTED: 1958 GROSS SQ. FT. 2621 TOTAL FLOORS: 1 FLOORS BELOW GRADE: ---

USE OF BUILDING WHEN CONSTRUCTED(C): Health Care CURRENT PRIMARY USE (P): Health Care CURRENT SECONDARY USE (S): ---

PREDOMINATE CONSTRUCTION TYPE: Brick and Wood Frame

FOR USING AGENCY USE ONLY: _____

BUILDING NOTES: _____

(FOR C.D.B. USE ONLY)
ASBESTOS STATUS: _____

FORM 4

INTRODUCTION TO THE MANAGEMENT PLAN

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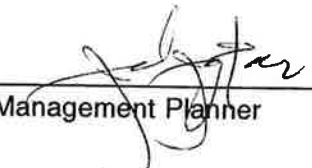
Dated: _____

Capital Development Board Representative

Dated: _____

Agency (Designated Person)

Dated: 10/26/94



Management Planner

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Gastrointestinal Cancer - Several of the epidemiological studies of workers occupationally exposed to asbestos have shown increased risks of gastrointestinal cancer including cancers of the colon, rectum, stomach and esophagus. The risk, however, does not appear to be as great as for lung cancer. To date, no association has been found between asbestos in drinking water and gastrointestinal cancer.

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As with the other asbestos related health effects, there is usually a time lag or latent period of several years before the development of disease. Once acquired, asbestosis tends to progress slowly, sometimes for years after asbestos exposure has ended.

CDB BUILDING NO.: B4614

BUILDING NAME: COTTAGE NO. 6, BUILDING NO. 40

The Cottage was constructed in 1958 for the patients at the Howe Mental Health Center. The building is currently unoccupied by patients. Remodeling work has been done to the interior plaster ceiling and walls to provide more housing area, security and mechanical rooms. The engineering staff at Tinley Park indicated that four separate remodeling projects were completed over the years in 1979, 1984, 1986 and 1988.

The building is single story and has a square footage of 2,621 square feet. This area differs from the square of footage shown on the Form 3. There is a crawl space and no attic.

The exterior wall system is face brick with common brick back-up and plaster interior walls and ceilings. Bar joists and metal deck support the crawl space. The roof is pitched and has shingles, gutters and downspouts and is supported by roof trusses framing into the exterior walls.

The building is heated by a gas forced air system with supply and return ducts. The HVAC system appears in good working order. The HVAC replaced the steam supplied heating system in the building.

An asbestos abatement project was completed several years ago removing all asbestos pipe covering from the steam and water lines.

No asbestos was detected in any of the material sampled. Areas assumed to contain asbestos were not sampled and no determination of their content can be made. Any asbestos in this building would cause relatively little hazard.

SUMMARY OF FINDINGS

INSPECTION PHASE I

CDB BUILDING NO./PROJECT NO.: B4614
910-010-010

USER AGENCY: Department of Mental Health/DD

USER LOCATION: (070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477 - Cook
County

BUILDING NAME: Cottage No.: 6, Building No.: 40

INSPECTORS: Vahooman Mirkhaef (I-057)
Jay Fox (I-0471)

HOMOGENEOUS AREA	DESCRIPTION	QUANTITY	NUMBER SAMPLES RECOMMENDED	REMOVAL COST ESTIMATE
SPA	Veneer Plaster Ceiling and Walls	3700	5	
SPB	Veneer Plaster Wall Remodeled 1988	40	3	
SPC	Veneer Plaster Walls Remodeled 1986	1540	5	
SPD	Veneer Plaster Wall Remodeled 1979	160	3	
SPE	Veneer Plaster Walls Remodeled 1984	25	3	
MFA	1 X 1 Floor Tile and Mastic	2850	Assumed ACM	

INSPECTION PHASE I

CDB BUILDING NO./PROJECT NO.:

**B4614
910-010-010**

USER AGENCY:

Department of Mental Health/DD

USER LOCATION:

**(070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477 - Cook
County**

BUILDING NAME:

Cottage No.: 6, Building No.: 40

INSPECTORS:

**Vahooman Mirkhaef (I-057)
Jay Fox (I-0471)**

HOMOGENEOUS AREA	DESCRIPTION	QUANTITY	NUMBER SAMPLES RECOMMENDED	REMOVAL COST ESTIMATE
MMA	Insulation Inside Metal Fire Doors	6	Assumed ACM	
MMB	Fire Damper Insulation	30	Assumed ACM	
MMC	Exhaust Backdraft Damper Insulation	10	Assumed ACM	

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.: B4614
901-010-010

USER AGENCY: Department of Mental Health

USER LOCATION: (070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477

BUILDING NAME: Cottage No.: 6, Building No.: 40

INSPECTORS: Vahooman Mirkhaef
Jay Fox
David Sloman

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
MFA	1 X 1 Floor Tile and Mastic	X			
MMA	Metal Fire Doors	X			
MMB	Fire Damper Insulation	X			
MMC	Exhaust Backdraft Damper Insulation	X			
SPA	Veneer Plaster Ceiling and Walls			7	
SPB	Veneer Plaster Ceiling (Remodeled 1988)			3	

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.: B4614
901-010-010

USER AGENCY: Department of Mental Health

USER LOCATION: (070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477

BUILDING NAME: Cottage No.: 6, Building No.: 40

INSPECTORS: Vahooman Mirkhaef
Jay Fox
David Sloman

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
SPC	Veneer Plaster Walls (Remodeled 1986)			7	
SPD	Veneer Plaster Walls (Remodeled 1979)			5	
SPE	Veneer Plaster Walls (Remodeled 1984)			3	

FORM 6 - SUMMARY OF FINDINGS

MANAGEMENT PLAN PHASE III

BUILDING NAME Cottage #6 - Building #40

LIST IN ORDER OF RESPONSE ACTION NUMBER

C.D.B. BUILDING NUMBER B4614

HOMOGENEOUS AREA	MATERIAL DESCRIPTION	ACM CONTENT (%)			DAMAGE ASSESSMENT							RESPONSE ACTION		
		CHRYSO TILE	AMOSITE	OTHER	NO DAMAGE	SALIENT DAMAGE	SIGNIFICANT DAMAGE	NO POTENTIAL DAMAGE	POTENTIAL DAMAGE	POTENTIAL SIGNIFICANT DAMAGE	DAMAGE		NUMBER	DESCRIPTION (I.E. REMOVE, REPAIR, ENCLOSE, ENCAPSULATE, OR O&M)
MFA	1 x 1 Floor Tile and Mastic												8	O&M
MMA	Metal Fire Door Insulation												8	O&M
MMB	Fire Damper Insulation												8	O&M
MMC	Exhaust Back-Draft Damper Insulation												8	O&M

ASBESTOS MANAGEMENT PLAN REPORT

CDB PROJECT NUMBER - 910-010-010

HOWE MENTAL HEALTH CENTER
DEPARTMENT OF MENTAL HEALTH AND
DEVELOPMENTAL DISABILITIES
COTTAGE #7 - BUILDING #41
C.D.B. BUILDING #B4714
7600 WEST 183RD STREET
TINLEY PARK, IL 60477

STATE OF ILLINOIS

CAPITAL DEVELOPMENT BOARD

SPRINGFIELD, ILLINOIS

BY:
FOX & FOX ARCHITECTS & ENGINEERS
330 SOUTH WELLS STREET
CHICAGO, IL 60606
(312) 427-5592

DATE: OCT. 10, 1994

DATE SIGNED: 10/26/94

EXP. DATE: 11/30/96

IDPH LICENSE: 100-0471

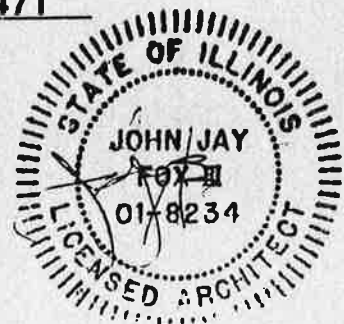
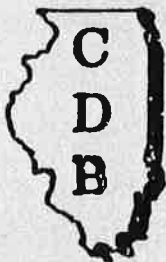


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- IV. Summary of Findings
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- VIII. MMA - Metal Fire Doors
- IX. MMB - Fire Damper Insulation
- X. MMC - Exhaust Back-Draft Damper Insulation
- XI. SPA - Veneer Plaster Ceiling and Walls
- XII. SPB - Veneer Plaster Walls (Remodeled 1988)
- XIII. SPC - Veneer Plaster Walls (Remodeled 1986)
- XIV. SPD - Veneer Plaster Walls (Remodeled 1979)
- XV. SPE - Veneer Plaster Walls (Remodeled 1984)

- XVI. Cost Summary
- XVII. Chain of Custody
- XVIII. Licenses and Accreditations
- XIX. Operation and Maintenance Plan

CAPITAL DEVELOPMENT BOARD BUILDING INVENTORY FORM 3

C.D.B. BUILDING NUMBER: B4714 BUILDING NAME: Cottage #7 - Bldg. #41

USING AGENCY: 321 Department of Mental Health LOCATION: 070 Howe Development Center

BLDG. ADDRESS: 7600 W. 183rd Street CITY: Tinley Park, Illinois

ZIP: 60477 COUNTY: Cook HOUSE/SENATE DISTRICT: 037/19

YEAR CONSTRUCTED: 1958 GROSS SQ. FT. 2621 TOTAL FLOORS: 1 FLOORS BELOW GRADE: ---

USE OF BUILDING WHEN CONSTRUCTED(C): Health Care CURRENT PRIMARY USE (P): Health Care CURRENT SECONDARY USE (S): ---

PREDOMINATE CONSTRUCTION TYPE: Brick and Wood Frame

FOR USING AGENCY USE ONLY: _____

BUILDING NOTES: _____

(FOR C.D.B. USE ONLY)
ASBESTOS STATUS: _____

FORM 4

INTRODUCTION TO THE MANAGEMENT PLAN

A. Policy Statement

This Management Plan is intended to be a working document which will serve as a guide to staff, employees, occupants and visitors in minimizing the risk of exposure to asbestos fibers. The State of Illinois recognizes the serious health hazards associated with asbestos fibers. The State has conducted an inspection of this facility in order to determine whether asbestos is present, and if so, where the asbestos is located.

This Management Plan sets forth the recommended response actions for the ACM (asbestos containing material) within this facility. Further, where required, an Operations & Maintenance (O & M) Program has been established which will be implemented by facility staff.

This Plan has been reviewed by CDB, the Contracting Agency and the Using Agency and represents the policies and procedures to be implemented with respect to any ACM within this facility.


Dated: _____

Capital Development Board Representative

Dated: _____

Agency (Designated Person)

Dated: 10/26/94



Management Planner

The data linking asbestos exposure to mesothelioma is based upon many of the same epidemiological studies of workers that demonstrated an association between asbestos exposure and lung cancer. The findings are somewhat different than for lung cancer. Lower non-occupational exposures have also been associated with mesothelioma in addition to occupational exposure. Therefore, lower levels of exposure to asbestos as found in some non-occupational settings may give rise to mesothelioma. Secondly, the nature of the dose response relationship may be different from that of lung cancer. The risk continues to increase as the number of years since first exposure increases. In many cases, a latent period of more than 40 years has been described.

Gastrointestinal Cancer - Several of the epidemiological studies of workers occupationally exposed to asbestos have shown increased risks of gastrointestinal cancer including cancers of the colon, rectum, stomach and esophagus. The risk, however, does not appear to be as great as for lung cancer. To date, no association has been found between asbestos in drinking water and gastrointestinal cancer.

Asbestos Related Pleural Disease - This category of health effects includes fibrous and sometimes calcified plaques as well as diffuse thickening of the pleura and the pleural effusion. These are non-cancerous changes of the membranes surrounding the lungs and commonly occur many years after asbestos exposure. The presence of plaques suggests prior asbestos exposure but usually does not cause any symptoms or respiratory impairment.

Asbestosis - Asbestosis is a disabling lung disorder consisting of generalized scarring of the lungs which causes shortness of breath on exertion. Asbestosis has been described almost exclusively in workers with occupational exposure to high concentrations of asbestos-containing dusts. In asbestosis, there appears to be a very strong dose response relationship in that the greater the concentration of asbestos fibers, and the longer the duration of exposure, the greater the likelihood and severity of asbestosis.

As with the other asbestos related health effects, there is usually a time lag or latent period of several years before the development of disease. Once acquired, asbestosis tends to progress slowly, sometimes for years after asbestos exposure has ended.

CDB BUILDING NO.: B4714

BUILDING NAME: COTTAGE NO. 7, BUILDING NO. 41

The Cottage was constructed in 1958 for the patients at the Howe Mental Health Center. The building is currently unoccupied by patients. Remodeling work has been done to the interior plaster ceiling and walls to provide more housing area, security and mechanical rooms. The engineering staff at Tinley Park indicated that four separate remodeling projects were completed over the years in 1979, 1984, 1986 and 1988.

The building is single story and has a square footage of 2,621 square feet. This area differs from the square of footage shown on the Form 3. There is a crawl space and no attic.

The exterior wall system is face brick with common brick back-up and plaster interior walls and ceilings. Bar joists and metal deck support the crawl space. The roof is pitched and has shingles, gutters and downspouts and is supported by roof trusses framing into the exterior walls.

The building is heated by a gas forced air system with supply and return ducts. The HVAC system appears in good working order. The HVAC replaced the steam supplied heating system in the building.

An asbestos abatement project was completed several years ago removing all asbestos pipe covering from the steam and water lines.

No asbestos was detected in any of the material sampled. Areas assumed to contain asbestos were not sampled and no determination of their content can be made. Any asbestos in this building would cause relatively little hazard.

SUMMARY OF FINDINGS

INSPECTION PHASE I

CDB BUILDING NO./PROJECT NO.: B4714
910-010-010

USER AGENCY: Department of Mental Health/DD

USER LOCATION: (070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477 - Cook
County

BUILDING NAME: Cottage No.: 7, Building No.: 41

INSPECTORS: Vahooman Mirkhaef (I-057)
Jay Fox (I-0471)

HOMOGENEOUS AREA	DESCRIPTION	QUANTITY	NUMBER SAMPLES RECOMMENDED	REMOVAL COST ESTIMATE
SPA	Veneer Plaster Ceiling and Walls	3700	5	
SPB	Veneer Plaster Wall Remodeled 1988	40	3	
SPC	Veneer Plaster Walls Remodeled 1986	1540	5	
SPD	Veneer Plaster Wall Remodeled 1979	160	3	
SPE	Veneer Plaster Walls Remodeled 1984	25	3	
MFA	1 X 1 Floor Tile and Mastic	2850	Assumed ACM	

INSPECTION PHASE I

CDB BUILDING NO./PROJECT NO.:

**B4714
910-010-010**

USER AGENCY:

Department of Mental Health/DD

USER LOCATION:

**(070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477 - Cook
County**

BUILDING NAME:

Cottage No.: 7, Building No.: 41

INSPECTORS:

**Vahooman Mirkhaef (I-057)
Jay Fox (I-0471)**

HOMOGENEOUS AREA	DESCRIPTION	QUANTITY	NUMBER SAMPLES RECOMMENDED	REMOVAL COST ESTIMATE
MMA	Insulation Inside Metal Fire Doors	6	Assumed ACM	
MMB	Fire Damper Insulation	30	Assumed ACM	
MMC	Exhaust Backdraft Damper Insulation	10	Assumed ACM	

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.: B4714
901-010-010

USER AGENCY: Department of Mental Health

USER LOCATION: (070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477

BUILDING NAME: Cottage No.: 7, Building No.: 41

INSPECTORS: Vahooman Mirkhaef
Jay Fox
David Sloman

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
MFA	1 X 1 Floor Tile and Mastic	X			
MMA	Metal Fire Doors	X			
MMB	Fire Damper Insulation	X			
MMC	Exhaust Backdraft Damper Insulation	X			
SPA	Veneer Plaster Ceiling and Walls			7	
SPB	Veneer Plaster Ceiling (Remodeled 1988)			3	

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.: B4714
901-010-010

USER AGENCY: Department of Mental Health

USER LOCATION: (070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477

BUILDING NAME: Cottage No.: 7, Building No.: 41

INSPECTORS: Vahooman Mirkhaef
Jay Fox
David Sloman

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
SPC	Veneer Plaster Walls (Remodeled 1986)			7	
SPD	Veneer Plaster Walls (Remodeled 1979)			5	
SPE	Veneer Plaster Walls (Remodeled 1984)			3	

FORM 6 - SUMMARY OF FINDINGS

MANAGEMENT PLAN PHASE III

BUILDING NAME Cottage #7 - Building #41

LIST IN ORDER OF RESPONSE ACTION NUMBER

C.D.B. BUILDING NUMBER B4714

HOMOGENEOUS AREA	MATERIAL DESCRIPTION	ACM CONTENT (%)			DAMAGE ASSESSMENT								RESPONSE ACTION	DESCRIPTION (I.E. REMOVE, REPAIR, ENCLOSE, ENCAPSULATE, OR O&M)	
		CHRYSOLE	AMOSITE	OTHER	ASSUMED ACM	NO DAMAGE	SALENT	DAMAGE	SIGNIFICANT DAMAGE	NO POTENTIAL DAMAGE	POTENTIAL SIGNIFICANT DAMAGE	POTENTIAL SIGNIFICANT DAMAGE			NUMBER
MFA	1 x 1 Floor tile and Mastic				x									8	O&M
MMA	Metal Fire Door Insulation				x									8	O&M
MMB	Fire Damper Insulation				x									8	O&M
MMC	Exhaust Back-Draft Damper Insulation				x									8	O&M

ASBESTOS MANAGEMENT PLAN REPORT

CDB PROJECT NUMBER - 910-010-010

HOWE MENTAL HEALTH CENTER
DEPARTMENT OF MENTAL HEALTH AND
DEVELOPMENTAL DISABILITIES
COTTAGE #4 - BUILDING #42
C.D.B. BUILDING #B4414
7600 WEST 183RD STREET
TINLEY PARK, IL 60477

STATE OF ILLINOIS

CAPITAL DEVELOPMENT BOARD

SPRINGFIELD, ILLINOIS

BY:
FOX & FOX ARCHITECTS & ENGINEERS
330 SOUTH WELLS STREET
CHICAGO, IL 60606
(312) 427-5592

DATE: OCT. 10, 1994

DATE SIGNED: 10/26/94

EXP. DATE: 11/30/96

IDPH LICENSE: 100-0471

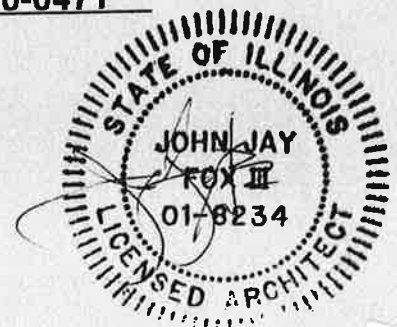
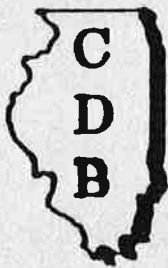


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- II. Introduction
- III. Narrative Building Description
- IV. Summary of Findings
- V. Site Plan
- VI. Floor Plans
- VII. MFA - 1 x 1 Floor Tile and Mastic
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FORM 4

INTRODUCTION TO THE MANAGEMENT PLAN

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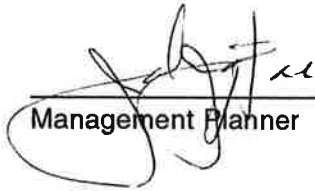
Dated: _____

Capital Development Board Representative

Dated: _____

Agency (Designated Person)

Dated: 10/26/94



Management Planner

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As with the other asbestos related health effects, there is usually a time lag or latent period of several years before the development of disease. Once acquired, asbestosis tends to progress slowly, sometimes for years after asbestos exposure has ended.

CDB BUILDING NO.: B4414
BUILDING NAME: COTTAGE NO. 4, BUILDING NO. 42

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No asbestos was detected in any of the material sampled. Areas assumed to contain asbestos were not sampled and no determination of their content can be made. Any asbestos in this building would cause relatively little hazard.

SUMMARY OF FINDINGS

INSPECTION PHASE I

CDB BUILDING NO./PROJECT NO.: B4414
 910-010-010

USER AGENCY: Department of Mental Health/DD

USER LOCATION: (070) Howe Mental Health Center
 7600 W. 183rd Street
 Tinley Park, Illinois 60477 - Cook
 County

BUILDING NAME: Cottage No.: 4, Building No.: 42

INSPECTORS: Vahooman Mirkhaef (I-057)
 Jay Fox (I-0471)

HOMOGENEOUS AREA	DESCRIPTION	QUANTITY	NUMBER SAMPLES RECOMMENDED	REMOVAL COST ESTIMATE
SPA	Veneer Plaster Ceiling and Walls	3700	5	
SPB	Veneer Plaster Wall Remodeled 1988	40	3	
SPC	Veneer Plaster Walls Remodeled 1986	1540	5	
SPD	Veneer Plaster Wall Remodeled 1979	160	3	
SPE	Veneer Plaster Walls Remodeled 1984	25	3	
MFA	1 X 1 Floor Tile and Mastic	2850	Assumed ACM	

INSPECTION PHASE I

CDB BUILDING NO./PROJECT NO.:

**B4414
910-010-010**

USER AGENCY:

Department of Mental Health/DD

USER LOCATION:

**(070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477 - Cook
County**

BUILDING NAME:

Cottage No.: 4, Building No.: 42

INSPECTORS:

**Vahooman Mirkhaef (I-057)
Jay Fox (I-0471)**

HOMOGENEOUS AREA	DESCRIPTION	QUANTITY	NUMBER SAMPLES RECOMMENDED	REMOVAL COST ESTIMATE
MMA	Insulation Inside Metal Fire Doors	6	Assumed ACM	
MMB	Fire Damper Insulation	30	Assumed ACM	
MMC	Exhaust Backdraft Damper Insulation	10	Assumed ACM	

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.:

**B4414
901-010-010**

USER AGENCY:

Department of Mental Health

USER LOCATION:

**(070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477**

BUILDING NAME:

Cottage No.: 4, Building No.: 42

INSPECTORS:

**Vahooman Mirkhaef
Jay Fox
David Sloman**

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
MFA	1 X 1 Floor Tile and Mastic	X			
MMA	Metal Fire Doors	X			
MMB	Fire Damper Insulation	X			
MMC	Exhaust Backdraft Damper Insulation	X			
SPA	Veneer Plaster Ceiling and Walls			7	
SPB	Veneer Plaster Ceiling (Remodeled 1988)			3	

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.:

**B4414
901-010-010**

USER AGENCY:

Department of Mental Health

USER LOCATION:

**(070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477**

BUILDING NAME:

Cottage No.: 4, Building No.: 42

INSPECTORS:

**Vahooman Mirkhaef
Jay Fox
David Sloman**

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
SPC	Veneer Plaster Walls (Remodeled 1986)			7	
SPD	Veneer Plaster Walls (Remodeled 1979)			5	
SPE	Veneer Plaster Walls (Remodeled 1984)			3	

FORM 6 - SUMMARY OF FINDINGS

MANAGEMENT PLAN PHASE III
LIST IN ORDER OF RESPONSE ACTION NUMBER

BUILDING NAME Cottage #4 - Building #42
C.D.B. BUILDING NUMBER B4414

HOMOGENEOUS AREA	MATERIAL DESCRIPTION	ACM CONTENT (%)			DAMAGE ASSESSMENT							RESPONSE ACTION	
		CHRYSOTILE	AMOSITE	OTHER	NO DAMAGE	SALIENT DAMAGE	SIGNIFICANT DAMAGE	NO POTENTIAL DAMAGE	POTENTIAL SIGNIFICANT DAMAGE	POTENTIAL SIGNIFICANT DAMAGE	NUMBER		DESCRIPTION (I.E. REMOVE, REPAIR, ENCLOSE, ENCAPSULATE, OR O&M)
MFA	1 x 1 Floor Tile and Mastic											8	O&M
MMA	Metal Fire Door Insulation											8	O&M
MMB	Fire Damper Insulation											8	O&M
MMC	Exhaust Back-Draft Damper Insulation											8	O&M

ASBESTOS MANAGEMENT PLAN REPORT

CDB PROJECT NUMBER - 910-010-010

HOWE MENTAL HEALTH CENTER
DEPARTMENT OF MENTAL HEALTH AND
DEVELOPMENTAL DISABILITIES
COTTAGE #5 - BUILDING #43
C.D.B. BUILDING #B4514
7600 WEST 183RD STREET
TINLEY PARK, IL 60477

STATE OF ILLINOIS

CAPITAL DEVELOPMENT BOARD

SPRINGFIELD, ILLINOIS

BY:

FOX & FOX ARCHITECTS & ENGINEERS
330 SOUTH WELLS STREET
CHICAGO, IL 60606
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DATE: OCT. 10, 1994

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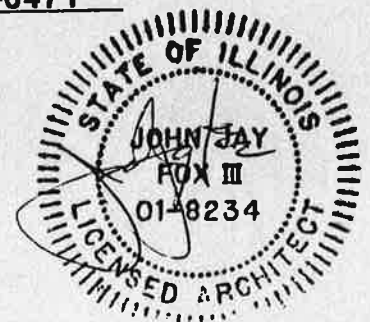


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CDB BUILDING NO.: B4514
Cottage #5 - Building #43

- I. Building Inventory
- II. Introduction
- III. Narrative Building Description
- IV. Summary of Findings
- V. Site Plan
- VI. Floor Plans
- VII. MFA - 1 x 1 Floor Tile and Mastic
- VIII. MMA - Metal Fire Doors
- IX. MMB - Fire Damper Insulation
- X. MMC - Exhaust Back-Draft Damper Insulation
- XI. SPA - Veneer Plaster Ceiling and Walls
- XII. SPB - Veneer Plaster Walls (Remodeled 1988)
- XIII. SPC - Veneer Plaster Walls (Remodeled 1986)
- XIV. SPD - Veneer Plaster Walls (Remodeled 1979)
- XV. SPE - Veneer Plaster Walls (Remodeled 1984)

- XVI. Cost Summary
- XVII. Chain of Custody
- XVIII. Licenses and Accreditations
- XIX. Operation and Maintenance Plan

CAPITAL DEVELOPMENT BOARD BUILDING INVENTORY FORM 3

C.D.B. BUILDING NUMBER: B4514 BUILDING NAME: Cottage #5 - Bldg #43

USING AGENCY: 321 Department of Mental Health LOCATION: 070 Howe Development Center

BLDG. ADDRESS: 7600 W. 183rd Street CITY: Tinley Park, Illinois

ZIP: 60477 COUNTY: Cook HOUSE/SENATE DISTRICT: 037/19

YEAR CONSTRUCTED: 1958 GROSS SQ. FT. 2621 TOTAL FLOORS: 1 FLOORS BELOW GRADE: ---

USE OF BUILDING WHEN CONSTRUCTED(C): Health Care CURRENT PRIMARY USE (P): Health Care CURRENT SECONDARY USE (S): ---

PREDOMINATE CONSTRUCTION TYPE: Brick and Wood Frame

FOR USING AGENCY USE ONLY: _____

BUILDING NOTES: _____

(FOR C.D.B. USE ONLY) ASBESTOS STATUS: _____

FORM 4

INTRODUCTION TO THE MANAGEMENT PLAN

A. Policy Statement

This Management Plan is intended to be a working document which will serve as a guide to staff, employees, occupants and visitors in minimizing the risk of exposure to asbestos fibers. The State of Illinois recognizes the serious health hazards associated with asbestos fibers. The State has conducted an inspection of this facility in order to determine whether asbestos is present, and if so, where the asbestos is located.

This Management Plan sets forth the recommended response actions for the ACM (asbestos containing material) within this facility. Further, where required, an Operations & Maintenance (O & M) Program has been established which will be implemented by facility staff.

This Plan has been reviewed by CDB, the Contracting Agency and the Using Agency and represents the policies and procedures to be implemented with respect to any ACM within this facility.


Dated: _____

Capital Development Board Representative

Dated: _____

Agency (Designated Person)

Dated: 10/26/94



Management Planner

The data linking asbestos exposure to mesothelioma is based upon many of the same epidemiological studies of workers that demonstrated an association between asbestos exposure and lung cancer. The findings are somewhat different than for lung cancer. Lower non-occupational exposures have also been associated with mesothelioma in addition to occupational exposure. Therefore, lower levels of exposure to asbestos as found in some non-occupational settings may give rise to mesothelioma. Secondly, the nature of the dose response relationship may be different from that of lung cancer. The risk continues to increase as the number of years since first exposure increases. In many cases, a latent period of more than 40 years has been described.

Gastrointestinal Cancer - Several of the epidemiological studies of workers occupationally exposed to asbestos have shown increased risks of gastrointestinal cancer including cancers of the colon, rectum, stomach and esophagus. The risk, however, does not appear to be as great as for lung cancer. To date, no association has been found between asbestos in drinking water and gastrointestinal cancer.

Asbestos Related Pleural Disease - This category of health effects includes fibrous and sometimes calcified plaques as well as diffuse thickening of the pleura and the pleural effusion. These are non-cancerous changes of the membranes surrounding the lungs and commonly occur many years after asbestos exposure. The presence of plaques suggests prior asbestos exposure but usually does not cause any symptoms or respiratory impairment.

Asbestosis - Asbestosis is a disabling lung disorder consisting of generalized scarring of the lungs which causes shortness of breath on exertion. Asbestosis has been described almost exclusively in workers with occupational exposure to high concentrations of asbestos-containing dusts. In asbestosis, there appears to be a very strong dose response relationship in that the greater the concentration of asbestos fibers, and the longer the duration of exposure, the greater the likelihood and severity of asbestosis.

As with the other asbestos related health effects, there is usually a time lag or latent period of several years before the development of disease. Once acquired, asbestosis tends to progress slowly, sometimes for years after asbestos exposure has ended.

CDB BUILDING NO.: B4514

BUILDING NAME: COTTAGE NO. 5, BUILDING NO. 43

The Cottage was constructed in 1958 for the patients at the Howe Mental Health Center. The building is currently unoccupied by patients. Remodeling work has been done to the interior plaster ceiling and walls to provide more housing area, security and mechanical rooms. The engineering staff at Tinley Park indicated that four separate remodeling projects were completed over the years in 1979, 1984, 1986 and 1988.

The building is single story and has a square footage of 2,621 square feet. This area differs from the square of footage shown on the Form 3. There is a crawl space and no attic.

The exterior wall system is face brick with common brick back-up and plaster interior walls and ceilings. Bar joists and metal deck support the crawl space. The roof is pitched and has shingles, gutters and downspouts and is supported by roof trusses framing into the exterior walls.

The building is heated by a gas forced air system with supply and return ducts. The HVAC system appears in good working order. The HVAC replaced the steam supplied heating system in the building.

An asbestos abatement project was completed several years ago removing all asbestos pipe covering from the steam and water lines.

No asbestos was detected in any of the material sampled. Areas assumed to contain asbestos were not sampled and no determination of their content can be made. Any asbestos in this building would cause relatively little hazard.

SUMMARY OF FINDINGS

INSPECTION PHASE I

CDB BUILDING NO./PROJECT NO.: B4514
910-010-010

USER AGENCY: Department of Mental Health/DD

USER LOCATION: (070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477 - Cook
County

BUILDING NAME: Cottage No.: 5, Building No.: 43

INSPECTORS: Vahooman Mirkhaef (I-057)
Jay Fox (I-0471)

HOMOGENEOUS AREA	DESCRIPTION	QUANTITY	NUMBER SAMPLES RECOMMENDED	REMOVAL COST ESTIMATE
SPA	Veneer Plaster Ceiling and Walls	3700	5	
SPB	Veneer Plaster Wall Remodeled 1988	40	3	
SPC	Veneer Plaster Walls Remodeled 1986	1540	5	
SPD	Veneer Plaster Wall Remodeled 1979	160	3	
SPE	Veneer Plaster Walls Remodeled 1984	25	3	
MFA	1 X 1 Floor Tile and Mastic	2850	Assumed ACM	

INSPECTION PHASE I

CDB BUILDING NO./PROJECT NO.:

**B4514
910-010-010**

USER AGENCY:

Department of Mental Health/DD

USER LOCATION:

**(070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477 - Cook
County**

BUILDING NAME:

Cottage No.: 5, Building No.: 43

INSPECTORS:

**Vahooman Mirkhaef (I-057)
Jay Fox (I-0471)**

HOMOGENEOUS AREA	DESCRIPTION	QUANTITY	NUMBER SAMPLES RECOMMENDED	REMOVAL COST ESTIMATE
MMA	Insulation Inside Metal Fire Doors	6	Assumed ACM	
MMB	Fire Damper Insulation	30	Assumed ACM	
MMC	Exhaust Backdraft Damper Insulation	10	Assumed ACM	

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.:

**B4514
901-010-010**

USER AGENCY:

Department of Mental Health

USER LOCATION:

**(070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477**

BUILDING NAME:

Cottage No.: 5, Building No.: 43

INSPECTORS:

**Vahooman Mirkhaef
Jay Fox
David Sloman**

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
MFA	1 X 1 Floor Tile and Mastic	X			
MMA	Metal Fire Doors	X			
MMB	Fire Damper Insulation	X			
MMC	Exhaust Backdraft Damper Insulation	X			
SPA	Veneer Plaster Ceiling and Walls			7	
SPB	Veneer Plaster Ceiling (Remodeled 1988)			3	

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.: B4514
901-010-010

USER AGENCY: Department of Mental Health

USER LOCATION: (070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477

BUILDING NAME: Cottage No.: 5, Building No.: 43

INSPECTORS: Vahooman Mirkhaef
Jay Fox
David Sloman

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
SPC	Veneer Plaster Walls (Remodeled 1986)			7	
SPD	Veneer Plaster Walls (Remodeled 1979)			5	
SPE	Veneer Plaster Walls (Remodeled 1984)			3	

FORM 6 - SUMMARY OF FINDINGS

MANAGEMENT PLAN PHASE III

BUILDING NAME

Cottage #5 - Building #43

LIST IN ORDER OF RESPONSE ACTION NUMBER

C.D.B. BUILDING NUMBER B4514

HOMOGENEOUS AREA	MATERIAL DESCRIPTION	ACM CONTENT (%)			ASSUMED ACM	NO DAMAGE	SALIENT DAMAGE	SIGNIFICANT DAMAGE	NO POTENTIAL DAMAGE	POTENTIAL SIGNIFICANT DAMAGE	DAMAGE ASSESSMENT		
		CHRYSOTILE	AMOSITE	OTHER							NUMBER	RESPONSE ACTION	DESCRIPTION (I.E. REMOVE, REPAIR, ENCLOSE, ENCAPSULATE, OR OEM)
MFA	1 x 1 Floor Tile and Mastic				X			X			8	OEM	
MFA	Metal Fire Door Insulation				X			X			8	OEM	
MMB	Fire Damper Insulation				X			X			8	OEM	
MMC	Exhaust Back-Draft Damper Insulation				X			X			8	OEM	

ASBESTOS MANAGEMENT PLAN REPORT

CDB PROJECT NUMBER - 910-010-010

HOWE MENTAL HEALTH CENTER
DEPARTMENT OF MENTAL HEALTH AND
DEVELOPMENTAL DISABILITIES
COTTAGE #2 - BUILDING #44
C.D.B. BUILDING #B4214
7600 WEST 183RD STREET
TINLEY PARK, IL 60477

STATE OF ILLINOIS

CAPITAL DEVELOPMENT BOARD

SPRINGFIELD, ILLINOIS

BY:
FOX & FOX ARCHITECTS & ENGINEERS
330 SOUTH WELLS STREET
CHICAGO, IL 60606
(312) 427-5592

DATE: OCT. 10, 1994

DATE SIGNED: 10/26/94

EXP. DATE: 11/30/96

IDPH LICENSE: 100-0471

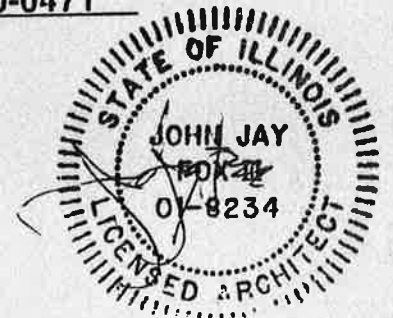
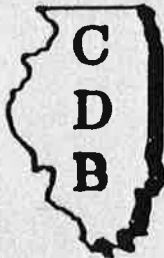


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- XVIII. Licenses and Accreditations
- XIX. Operation and Maintenance Plan

FORM 4

INTRODUCTION TO THE MANAGEMENT PLAN

A. Policy Statement

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Dated: _____

Capital Development Board Representative

Dated: _____

Agency (Designated Person)

Dated: 10/26/94



Management Planner

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CDB BUILDING NO.: B4214

BUILDING NAME: COTTAGE NO. 2, BUILDING NO. 44

The Cottage was constructed in 1958 for the patients at the Howe Mental Health Center. The building is currently unoccupied by patients. Remodeling work has been done to the interior plaster ceiling and walls to provide more housing area, security and mechanical rooms. The engineering staff at Tinley Park indicated that four separate remodeling projects were completed over the years in 1979, 1984, 1986 and 1988.

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An asbestos abatement project was completed several years ago removing all asbestos pipe covering from the steam and water lines.

No asbestos was detected in any of the material sampled. Areas assumed to contain asbestos were not sampled and no determination of their content can be made. Any asbestos in this building would cause relatively little hazard.

SUMMARY OF FINDINGS

INSPECTION PHASE I

CDB BUILDING NO./PROJECT NO.:

**B4214
910-010-010**

USER AGENCY:

Department of Mental Health/DD

USER LOCATION:

**(070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477 - Cook
County**

BUILDING NAME:

Cottage No.: 2, Building No.: 44

INSPECTORS:

**Vahooman Mirkhaef (I-057)
Jay Fox (I-0471)**

HOMOGENEOUS AREA	DESCRIPTION	QUANTITY	NUMBER SAMPLES RECOMMENDED	REMOVAL COST ESTIMATE
SPA	Veneer Plaster Ceiling and Walls	3700	5	
SPB	Veneer Plaster Wall Remodeled 1988	40	3	
SPC	Veneer Plaster Walls Remodeled 1986	1540	5	
SPD	Veneer Plaster Wall Remodeled 1979	160	3	
SPE	Veneer Plaster Walls Remodeled 1984	25	3	
MFA	1 X 1 Floor Tile and Mastic	2850	Assumed ACM	

INSPECTION PHASE I

CDB BUILDING NO./PROJECT NO.:

**B4214
910-010-010**

USER AGENCY:

Department of Mental Health/DD

USER LOCATION:

**(070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477 - Cook
County**

BUILDING NAME:

Cottage No.: 2, Building No.: 44

INSPECTORS:

**Vahooman Mirkhaef (I-057)
Jay Fox (I-0471)**

HOMOGENEOUS AREA	DESCRIPTION	QUANTITY	NUMBER SAMPLES RECOMMENDED	REMOVAL COST ESTIMATE
MMA	Insulation Inside Metal Fire Doors	6	Assumed ACM	
MMB	Fire Damper Insulation	30	Assumed ACM	
MMC	Exhaust Backdraft Damper Insulation	10	Assumed ACM	

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.: B4214
901-010-010

USER AGENCY: Department of Mental Health

USER LOCATION: (070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477

BUILDING NAME: Cottage No.: 2, Building No.: 44

INSPECTORS: Vahooman Mirkhaef
Jay Fox
David Sloman

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
MFA	1 X 1 Floor Tile and Mastic	X			
MMA	Metal Fire Doors	X			
MMB	Fire Damper Insulation	X			
MMC	Exhaust Backdraft Damper Insulation	X			
SPA	Veneer Plaster Ceiling and Walls			7	
SPB	Veneer Plaster Ceiling (Remodeled 1988)			3	

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.: B4214
901-010-010

USER AGENCY: Department of Mental Health

USER LOCATION: (070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477

BUILDING NAME: Cottage No.: 2, Building No.: 44

INSPECTORS: Vahooman Mirkhaef
Jay Fox
David Sloman

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
SPC	Veneer Plaster Walls (Remodeled 1986)			7	
SPD	Veneer Plaster Walls (Remodeled 1979)			5	
SPE	Veneer Plaster Walls (Remodeled 1984)			3	

FORM 6 - SUMMARY OF FINDINGS

MANAGEMENT PLAN PHASE III

LIST IN ORDER OF RESPONSE ACTION NUMBER

BUILDING NAME Cottage #2 - Building #44
 C.D.B. BUILDING NUMBER B4214

HOMOGENEOUS AREA	MATERIAL DESCRIPTION	ACM CONTENT (%)			DAMAGE ASSESSMENT							RESPONSE ACTION			
		CHRYSOTILE	AMOSITE	OTHER	ASSUMED ACM	NO DAMAGE	SALIENT	DAMAGE	SIGNIFICANT DAMAGE	NO POTENTIAL DAMAGE	POTENTIAL SIGNIFICANT DAMAGE		POTENTIAL SIGNIFICANT DAMAGE	NUMBER	DESCRIPTION (I.E. REMOVE, REPAIR, ENCLOSE, ENCAPSULATE, OR O&M)
MFA	1 x 1 Floor Tile and Mastic				X									8	O&M
MMA	Metal Fire Door Insulation				X									8	O&M
MMB	Fire Damper Insulation				X									8	O&M
MNC	Exhaust Back-Draft Damper Insulation				X									8	O&M

ASBESTOS MANAGEMENT PLAN REPORT

CDB PROJECT NUMBER - 910-010-010

HOWE MENTAL HEALTH CENTER
DEPARTMENT OF MENTAL HEALTH AND
DEVELOPMENTAL DISABILITIES
COTTAGE #3 - BUILDING #45
C.D.B. BUILDING #B4314
7600 WEST 183RD STREET
TINLEY PARK, IL 60477

STATE OF ILLINOIS

CAPITAL DEVELOPMENT BOARD

SPRINGFIELD, ILLINOIS

BY:
FOX & FOX ARCHITECTS & ENGINEERS
330 SOUTH WELLS STREET
CHICAGO, IL 60606
(312) 427-5592

DATE: OCT. 10, 1994

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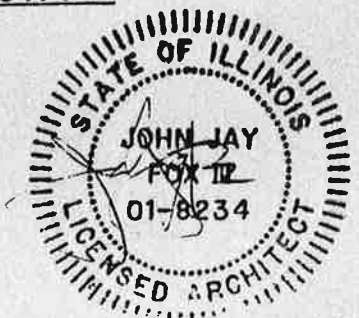
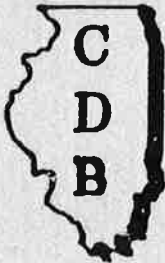


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CAPITAL DEVELOPMENT BOARD BUILDING INVENTORY FORM 3

C.D.B. BUILDING NUMBER: B4314 BUILDING NAME: Cottage #3 - Bldg #45

USING AGENCY: 321 Department of Mental Health LOCATION: 070 Howe Development Center

BLDG. ADDRESS: 7600 W. 183rd Street CITY: Tinley Park, Illinois

ZIP: 60477 COUNTY: Cook HOUSE/SENATE DISTRICT: 037/19

YEAR CONSTRUCTED: 1958 GROSS SQ. FT. 2621 TOTAL FLOORS: 1 FLOORS BELOW GRADE: ---

USE OF BUILDING WHEN CONSTRUCTED(C): Health Care CURRENT PRIMARY USE (P): Health Care CURRENT SECONDARY USE (S): ---

PREDOMINATE CONSTRUCTION TYPE: Brick and Wood Frame

FOR USING AGENCY USE ONLY: _____

BUILDING NOTES: _____

(FOR C.D.B. USE ONLY) ASBESTOS STATUS: _____

FORM 4

INTRODUCTION TO THE MANAGEMENT PLAN

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Dated: _____

Capital Development Board Representative

Dated: _____

Agency (Designated Person)

Dated: 10/20/94



Management Planner

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CDB BUILDING NO.: B4314

BUILDING NAME: COTTAGE NO. 3, BUILDING NO. 45

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The building is heated by a gas forced air system with supply and return ducts. The HVAC system appears in good working order. The HVAC replaced the steam supplied heating system in the building.

An asbestos abatement project was completed several years ago removing all asbestos pipe covering from the steam and water lines.

No asbestos was detected in any of the material sampled. Areas assumed to contain asbestos were not sampled and no determination of their content can be made. Any asbestos in this building would cause relatively little hazard.

SUMMARY OF FINDINGS

INSPECTION PHASE I

CDB BUILDING NO./PROJECT NO.: B4314
910-010-010

USER AGENCY: Department of Mental Health/DD

USER LOCATION: (070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477 - Cook
County

BUILDING NAME: Cottage No.: 3, Building No.: 45

INSPECTORS: Vahooman Mirkhaef (I-057)
Jay Fox (I-0471)

HOMOGENEOUS AREA	DESCRIPTION	QUANTITY	NUMBER SAMPLES RECOMMENDED	REMOVAL COST ESTIMATE
SPA	Veneer Plaster Ceiling and Walls	3700	5	
SPB	Veneer Plaster Wall Remodeled 1988	40	3	
SPC	Veneer Plaster Walls Remodeled 1986	1540	5	
SPD	Veneer Plaster Wall Remodeled 1979	160	3	
SPE	Veneer Plaster Walls Remodeled 1984	25	3	
MFA	1 X 1 Floor Tile and Mastic	2850	Assumed ACM	

INSPECTION PHASE I

CDB BUILDING NO./PROJECT NO.:

**B4314
910-010-010**

USER AGENCY:

Department of Mental Health/DD

USER LOCATION:

**(070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477 - Cook
County**

BUILDING NAME:

Cottage No.: 3, Building No.: 45

INSPECTORS:

**Vahooman Mirkhaef (I-057)
Jay Fox (I-0471)**

HOMOGENEOUS AREA	DESCRIPTION	QUANTITY	NUMBER SAMPLES RECOMMENDED	REMOVAL COST ESTIMATE
MMA	Insulation Inside Metal Fire Doors	6	Assumed ACM	
MMB	Fire Damper Insulation	30	Assumed ACM	
MMC	Exhaust Backdraft Damper Insulation	10	Assumed ACM	

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.: B4314
901-010-010

USER AGENCY: Department of Mental Health

USER LOCATION: (070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477

BUILDING NAME: Cottage No.: 3, Building No.: 45

INSPECTORS: Vahooman Mirkhaef
Jay Fox
David Sloman

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
MFA	1 X 1 Floor Tile and Mastic	X			
MMA	Metal Fire Doors	X			
MMB	Fire Damper Insulation	X			
MMC	Exhaust Backdraft Damper Insulation	X			
SPA	Veneer Plaster Ceiling and Walls			7	
SPB	Veneer Plaster Ceiling (Remodeled 1988)			3	

2

SUMMARY OF FINDINGS

SAMPLING PHASE II

CDB BUILDING NO./PROJECT NO.:

**B4314
901-010-010**

USER AGENCY:

Department of Mental Health

USER LOCATION:

**(070) Howe Mental Health Center
7600 W. 183rd Street
Tinley Park, Illinois 60477**

BUILDING NAME:

Cottage No.: 3, Building No.: 45

INSPECTORS:

**Vahooman Mirkhaef
Jay Fox
David Sloman**

HOMOGENEOUS AREA	DESCRIPTION	ACM			NOTES
		ASSUMED	POS	NEG	
SPC	Veneer Plaster Walls (Remodeled 1986)			7	
SPD	Veneer Plaster Walls (Remodeled 1979)			5	
SPE	Veneer Plaster Walls (Remodeled 1984)			3	

FORM 6 - SUMMARY OF FINDINGS

MANAGEMENT PLAN PHASE III

LIST IN ORDER OF RESPONSE ACTION NUMBER

BUILDING NAME Cottage #3 - Building #45

C.D.B. BUILDING NUMBER B4314

HOMOGENEOUS AREA	MATERIAL DESCRIPTION	ACM CONTENT (%)			DAMAGE ASSESSMENT							RESPONSE ACTION		
		CHRYSO TILE	AMOSITE	OTHER	ASSUMED ACM	NO DAMAGE	SALENT	DAMAGE	SIGNIFICANT DAMAGE	NO POTENTIAL DAMAGE	POTENTIAL SIGNIFICANT DAMAGE		POTENTIAL SIGNIFICANT DAMAGE	NUMBER
MFA	1 x 1 Floor Tile and Mastic				X								8	O&M
MMVA	Metal Fire Door Insulation				X								8	O&M
MMB	Fire Damper Insulation				X								8	O&M
MMC	Exhaust Back-Draft Damper Insulation				X								8	O&M