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PROJECT # ASBESTOS SURVEY SURVEY

PROJECT NAME

ENVIRONMENTAL HEALTH SURVEY REPORT (LIMITED SURVEY) BRIDGER BUILDING 225 BRIDGER AVE-LAS VEGAS, NV DECEMBER 2, 1991

DOC TYPE RPTS

AB-HAZ ENVIRONMENTAL
Consultants in Environmental and Occupational Health

Environmental Health Survey Report

Clark County Department of Facilities
200 South 3rd Street
Las Vegas, Nevada

Survey Conducted By Rocco DiPentino

Management Contact: Mr. Gary Kennard
Facilities Manager

Project: LimitedAsbestos Survey & Report

Site: Clark County Bridger Building
225 Bridger Avenue
Las Vegas, Nevada

Date of Report: December 2, 1991,

2242 Placer Creek Ct. • Las Vegas, NV 89115 • Tel: (702) 452-6360 • FAX: (702) 735-2594

AB-HAZ ENVIRONMENTAL
Consultants in Environmental and Occupational Health

EXECUTIVE SUMMARY

On December 2, 1991, Ab-Haz Environmental Services located at 2242 Placer Creek Court in Las Vegas, Nevada was contracted by the Clark County Clark County Division of Facilities located at 200 South 3rd Street in Las Vegas, Nevada to furnish all materials, supplies, and Project Inspectors to perform a limited survey for the detection of asbestos containing materials in the Commissioners Chambers located on the first floor of the Clark County Bridger Building, 225 South Bridger Avenue in Las Vegas, Nevada.

Ab-Haz Environmental's project monitor intially performed a visual inspection and inventory of suspect asbestos -containing materials at the site. Representative bulk sample collection was the basis for the survey. The purpose of the surveys was to determine the presence of asbestos containing materials and related contamination

Results Indicate:

- Fire Proofing throughout the area contained asbestos (40% chrysotile).

A more detailed evaluation of the findings of Ab-Haz Environmental's Risk Assessment is found in the results and discussion sections of the attached report. Specific results of the bulk sample analysis are found in the sampling data tables found in the appendix.

METHODS

Bulk Asbestos Sampling

Core samples of each material was collected by penetrating the material to the substrate. All samples were placed in sealed plastic bags, labeled with an identifying code, and entered into a log book. Duplicate samples of similar materials at adjacent locations were compared for uniformity of texture and color. Representative samples of each sampling area were analyzed for their asbestos content.

Bulk samples were analyzed via Polarized Light Microscopy in Stier's Electron Microscopy's accredited Laboratory located in Oklahoma City, Oklahoma. Sample analysis conformed to EPA Method 600/M4-82-020. Results are reported as percent asbestos by weight.

Note: It is Stiers Electron Microscpy, Inc. policy to discard used asbestos samples (i.e. filter cassettes and bulks) 30 days after the completion of the final report unless otherwise notified by the client.

STANDARDS

Federal regulations promulgated by the Environmental Protection Agency prohibit the use of asbestos materials for fireproofing and insulation where the material contains more than one percent asbestos by weight. In general, the higher the percentage of asbestos the more fibers that can be released and contaminate the building's environment. However substantial fiber release can occur in damaged or deteriorating materials even where asbestos content is low.

PLM ANALYSIS REPORT
PREPARED FOR

AB-HAZ ENVIRONMENTAL

LAB # : 8315

Page : 3
Parameter : Asbestos
Client : AB-HAZ ENVIRONMENTAL
Project : COMMISSION CHAMBERS
Date : 11/26/91

9.BB/CC 009		
		Positive
	GRAY FIBROUS W/FLAKES	40 % Chrysotile Asbestos, 2 % Cellulose
10.BB/CC 010		
		Positive
	GRAY FIBROUS W/FLAKES	40 % Chrysotile Asbestos, 5 % Cellulose
11.BB/CC 011		
		Positive
	GRAY FIBROUS W/FLAKES	40 % Chrysotile Asbestos, 2 % Cellulose
12.BB/CC 012		
		Positive
	GRAY FIBROUS W/FLAKES	40 % Chrysotile Asbestos, <1 % Cellulose

Analysts : R. Rud

the STIERS group, inc.

the STIERS group, inc.

December 4, 1991

AB-HAZ ENVIRONMENTAL
ATTN: Dennis Price
2242 Placer Creek Court
Las Vegas, NV 89115

Re: Results of Samples analyzed utilizing
Polarized Light Microscopy (PLM)

Dear Dennis:

Please find enclosed the report for the samples you submitted for analysis. I trust you will find all the information you need contained within this report.

We appreciate the opportunity to serve you and if you have any questions please do not hesitate to call us at 1-800-962-2685.

Sincerely yours,

David Stiers, Ph.D.,
President
QA/QC Director

ENC
DS/tlm

Corporate Offices:
3035 NW 63rd, Suite 150
Oklahoma City, OK 73116

405/842-2707
800/962-2685
FAX 405/842-2747

SEM
CHAIN OF CUSTODY

LAB # 8315

CLIENT AB-Haz ACCT # 110147

NUMBER OF SAMPLES 12 TYPE PLM TURN-TIME 48hr per Dennis Price

PROJECT NAME Commission Chambers PO# —

REC'D BY JM DATE 12/2/91 TIME 8:45 (AM)/PM

DELIVERED BY Fed Ex SHIPPING BILL RETAINED (YES) OR NO

CONDITION OF PACKAGE/SAMPLES Good

PREPARED FOR ANALYSIS BY R. Ruel DATE 12-2-91

ANALYZED BY R. Ruel DATE 12-2-91

QUALITY CONTROL CHECKED BY [illegible] DATE 12-2-91

REPORT CHECKED BY R. Ruel DATE 12-5-91

RESULTS BY (FAX) OR VERBAL INT. [illegible] DATE 12-2-91
702-452-6360

SAMPLES TO BE RETURNED YES (NO)

REMARKS also received 2 air samples in package.
Dispose of per Dennis - JM

Methodology : Polarized Light Microscopy EPA-600M4-82-020 LAB NVLAP CODE : 1875
Account # : 110147

Project : COMMISSION CHAMBERS

Client : AB-HAZ ENVIRONMENTAL

Client Address : 2242 PLACE CREEK COURT LAS VEGAS, NV 89115

Reported to : DENNIS PRICE By Order Of : CLIENT

Sampled From : COMMISSION CHAMBERS By : CIENT Date : 11/26/91

Shipped Via : FED EX Received : 12/02/91 Reported : 12/02/91

Copies :
Total number of samples analyzed : 12
Total number of samples received : 12
This report contains total 3 pages
Lab # : 8315

Analysts :

R. Rueb RON RUEB

LAB # : 8315

Page : 2
Parameter : Asbestos
Client : AB-HAZ ENVIRONMENTAL
Project : COMMISSION CHAMBERS
Date : 11/26/91

1.BB/CC 001		
		Positive
	GRAY FIBROUS W/FLAKES	40 % Chrysotile Asbestos, 5 % Cellulose
2.BB/CC 002		
		Positive
	GRAY FIBROUS W/FLAKES	40 % Chrysotile Asbestos, 5 % Cellulose
3.BB/CC 003		
		Positive
	GRAY FIBROUS W/FLAKES	40 % Chrysotile Asbestos, 5 % Cellulose
4.BB/CC 004		
		Positive
	GRAY FIBROUS W/FLAKES	40 % Chrysotile Asbestos, 5 % Cellulose
5.BB/CC 005		
		Positive
	GRAY FIBROUS W/FLAKES	40 % Chrysotile Asbestos, <1 % Cellulose
6.BB/CC 006		
		Positive
	GRAY FIBROUS W/FLAKES	40 % Chrysotile Asbestos, 2 % Cellulose
7.BB/CC 007		
		Positive
	GRAY FIBROUS W/FLAKES	40 % Chrysotile Asbestos, 5 % Cellulose
8.BB/CC 008		
		Positive
	GRAY FIBROUS W/FLAKES	40 % Chrysotile Asbestos, 5 % Cellulose

Analysts : R. Rueb

the STIERS group, inc.

AB-HAZ ENVIRONMENTAL

Date 11/26/91

Day | S | M | T | W | Th | F | S |

BULK SAMPLES

CHAIN OF CUSTODY / SAMPLE TRANSMITTAL

CLIENT: Clark County / Bridges Bld CONTACT: Garry Kenneko

PROJECT: Commission Chambers PROJ.#: _____

ANALYSIS: (✓) PLM ( ) SEM ( ) TEM

TURNAROUND TIME: (✓) Normal ( ) Priority ( ) Rush

Samples Transmitted By: _____ Date: _____ Time: _____

Samples Received By: _____ Date: _____ Time: _____

Samples Analyzed By: _____ Date: _____ Time: _____

Samples Stored By: _____ Date: _____ Time: _____

Samples Returned By: _____ Date: _____ Time: _____

	SAMPLE #	LOCATION	RESULTS
	BB/CC 007	BEAM RUNNING W/E - 3 BEAM RUNNIW N	
	BB/CC 008	BEAM RUNNING N/S ON WEST AREA	
	BB/CC 009	BEAM RUNNING N/S ON EAST AREA	
	BB/CC 010	MATERIAL LAYING ON TOP OF CEILING IN MIDDLE OF DROP CEILING	
	BB/CC 011	MATERIAL LAYING ON TOP OF CEILING BY FAR EAST WALL	
	BB/CC 012	MATERIAL THAT WAS LAYING ON TOP of CEILING By ACCESS POINT	

AB-HAZ ENVIRONMENTAL

Date 11/26/91

Day	S	M	T	W	Th	F	S
				✓			

FAX # 702-452-6360

BULK SAMPLES

CHAIN OF CUSTODY / SAMPLE TRANSMITTAL

CLIENT: Clark County / Bridger Old CONTACT: Gary Kennard

PROJECT: Commission Chambers PROJ. #: _____

ANALYSIS: (✓) PLM ( ) SEM ( ) TEM

TURNAROUND TIME: (✓) Normal ( ) Priority ( ) Rush

Samples Transmitted By: _____ Date: _____ Time: _____

Samples Received By: _____ Date: _____ Time: _____

Samples Analyzed By: _____ Date: _____ Time: _____

Samples Stored By: _____ Date: _____ Time: _____

Samples Returned By: _____ Date: _____ Time: _____

	SAMPLE #	LOCATION	RESULTS
	BB/CC 001	Beam Running N+S West Side of Chamber	
	BB/CC 002	Beam Running E/W South End of Chamber	
	BB/CC 003	Beam Running N/S 2nd from West End	
	BB/CC 004	Beam Running N/S 3 from W/E	
	BB/CC 005	Beam Running E/W & Beam Hanger N	
	BB/CC 006	Beam Running E/W- 2 no Beam Running N	

If asbestos containing materials are damaged, or delaminated, Ab-Haz Environmental recommends materials to be removed as stipulated by law according to the State Department of Occupation Safety and Health and the EPA.

Removal operations must be performed by a State Licensed and pre-qualified asbestos removal contractor. Specifications should be prepared to avoid change orders, and continuous independent third party monitoring is a prudent step to insure correct removal procedures and protection from potential liabilities.

The condition of the asbestos containing materials and its potential for disturbance(fiber release) may be used to determine if corrective measures should be taken. Evidence of water damage, physical damage and the presence of broken or crumbled material on the floor are signs that fiber release has occured, is occurring, or may occur in the future. According to the EPA, the only recognized method of eliminating the exposure is via removal.

Health experts agree that exposure to airborne asbestos, regardless of concentrations, involves a health risk. Persons exposed to asbestos have an increased risk to developing asbestosis, lung cancer,silicosis,and mesothelioma.

RESULTS

Results of the bulk samples collected during the survey are shown in the sampling data tables in the Appendix. Results indicate that all samples collected contained asbestos (40%chrysotile).

DISCUSSION

Prior to any maintenance or renovation activites in the surveyed areas(plenum area above commission chambers), it is Ab-Haz Environmental's recommendation that area follow a decontamination sequence utilizing safe contained entry by a licensed competent person. Individuals working above suspended ceiling must donn respiratory protection, protective clothing and receive at minimum a 4-hour awareness class covering the following: health risks, recognizing asbestos materials, potential disturbances of asbestos, and repiratory protection.

1.0 EXECUTIVE SUMMARY

On January 3, 1994, Ab-Haz Environmental Services(Ab-Haz) located at 2242 Placer Creek Court in Las Vegas, Nevada was contracted by the Clark County Division of Facilities located at 200 South Third in Las Vegas, Nevada to furnish all materials, supplies, and project inspectors to perform a complete survey for the detection of asbestos in construction materials. The survey was performed at the Bridger Building located at 225 Bridger Avenue in Las Vegas, Nevada.

2.0 PROJECT SCOPE AND OBJECTIVE

Ab-Haz's project inspectors (Mr. Rocco DiPentino and Mr. Dennis Price) performed visual inspections of suspicious materials and representative bulk sampling to determine asbestos content in various construction materials. If materials were considered "suspect" Ab-Haz would collect bulk samples. If materials were confirmed to contain asbestos in quantities of 1% by weight or greater these materials will be deemed asbestos containing. Ab-Haz Environmental will generate the data to be used as a guide for future asbestos abatement activity.

Results Indicate:

- Asbestos containing building materials were found throughout the site namely in fireproofing, vinyl floor tile, thermal systems insulation and transite panels.

3.0 METHODS

Bulk Asbestos Sampling

Core samples of each material were collected by penetrating the material to the substrate. All samples were placed in sealed plastic bags, labeled with an identifying code, and entered into a log book. Duplicate samples of similar materials at adjacent locations were compared for uniformity of texture and color. Representative samples of each sampling area were analyzed for their asbestos content.

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Bulk samples were analyzed via Polarized Light Microscopy in Kevco Services, Inc. an accredited laboratory located in Butler, Pennsylvania. Sample analysis conformed to EPA Method 600/M4-82-020. Results are reported as percent of asbestos weight.

Note: It is Kevco Services, Inc. policy to discard used asbestos samples (i.e. filter cassettes and/or bulks) 30 days after the completion of the final report unless otherwise notified by the client.

4.0 STANDARDS

Federal regulations promulgated by the Environmental Protection Agency prohibit the use of asbestos materials where the material contains more than one percent asbestos by weight. In general, the higher the percentage of asbestos the more fibers that can be released and contaminate the building's environment. However, substantial fiber release can occur in damaged or deteriorating materials even where asbestos content is low. The condition of the asbestos containing materials and its potential for disturbance (fiber release) may be used to determine if corrective measures should be taken. Evidence of water damage, physical damage and the presence of broken or crumbled material on the floor are signs that fiber release has occurred, is occurring, and may occur in the future.

According to the EPA, the only recognized method of eliminating the exposure is via removal. Health experts agree that exposure to airborne asbestos, regardless of concentrations, involves a health risk. Persons exposed to asbestos have an increased risk of developing asbestosis, lung cancer, silicosis, and mesothelioma.

5.0 DISCUSSION

On January 3, 1994 Ab-Haz mobilized to perform a complete asbestos survey of the Clark County Bridger Building. Ab-Haz began survey activity by visually assessing all building material and their conditions. After identifying "suspect" materials Ab-Haz began to collect representative bulk materials to be analyzed via polarized light microscopy.

After collecting over 100 samples Ab-Haz compiled all relevant data which will be included in the survey report. As mentioned earlier Ab-Haz found surface materials, thermal insulation; and miscellaneous asbestos.

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Surface material consisted of sprayed fireproofing on structural members located on the tenth thru first floor. The entire length of the beams were covered with overspray up to twelve inches onto the concrete deck. In the Penthouse located on the roof top asbestos was present in the blower or fan room and elevator room. Asbestos fireproofing is sprayed on a corrugated metal deck from end to end. Beams are also located in both room. Total square footage for both areas is 2900 square feet.

The combined total of all asbestos containing fireproofing totals approximately 118,288 square feet. Thermal insulation namely (pipe lagging) and cementitious joint covering on piping totals approximately 5,380 linear feet. No boiler breaching or tank covering were found. Finally the miscellaneous classification floor tile totals 12,630 square feet . Floors ten, nine, eight , seven , five and one contained 9" x 9" or 12" x 12" vinyl tile.

Complete asbestos abatement on a line item basis for the entire project was estimated between the range of $1,780,000.00 to $2,400,980.00. These figures reflect the current industry price trends in accordance with confirmed quantities.

A detailed evaluation of the materials collected is found in the results and discussion sections of the attached report. Specific results of the bulk sample analyses are found in the appendix.

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THE TOTAL AMOUNT OF ACM IN SQUARE FEET OR LINEAR FEET FOR THE ENTIRE CLARK COUNTY BRIDGER BUILDING

	SURFACE	THERMAL	MISC
	ASBESTOS CONTAINING FIREPROOFING: **118, 288 SQUARE FEET** TOTAL FIREPROOFING ON STRUCTURAL MEMBERS ARE	LINEAR ASBESTOS PIPE INSULATION: **5380 LINEAR FEET** TOTAL MECHANICAL JOINTS (90° ELBOWS & TEES) RANGING FROM 6" - 1" COVERED WITH CEMENTITIOUS MUD ARE:	VINYL ASBESTOS TILE: **12,574 SQUARE FEET**
TOTAL	**118,288 SQUARE FEET**	**500 MUDDED ELBOWS 6" to 1" & 5380 LINEAR FEET OF STRAIGHT RUN INSULATION**	**12,574 SQUARE FEET**