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PROJECT # **ASBESTOS SURVEY**



PROJECT NAME

**BRIDGER AND CENTENNIAL BUILDINGS  
225 BRIDGER AVE-310 SOUTH 3<sup>RD</sup> STREET  
LAS VEGAS, NEVADA  
AUGUST 18, 1999**

DOC TYPE **RPTS**





# Converse Consultants

Over 50 Years of Dedication in  
Geotechnical Engineering and Environmental Sciences

ASBESTOS BULK  
SAMPLE SURVEY

BRIDGER BUILDING  
225 BRIDGER AVENUE  
CENTENNIAL BUILDING  
310 SOUTH 3RD STREET  
LAS VEGAS, NEVADA



# Converse Consultants

Over 50 Years of Dedication in Geotechnical Engineering and Environmental Sciences

## ASBESTOS BULK SAMPLE SURVEY

BRIDGER BUILDING  
225 BRIDGER AVENUE  
CENTENNIAL BUILDING  
310 SOUTH 3RD STREET  
LAS VEGAS, NEVADA

Prepared for:

Clark County General Services  
500 South Grand Central Parkway  
5<sup>th</sup> Floor  
Las Vegas, NV 89106

Converse Project No. 99-43324-07

August 18, 1999

58/6465



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# Converse Consultants

Over 50 Years of Dedication in Geotechnical Engineering and Environmental Sciences

August 18, 1999

99-43324-07

Mr. Brian Connolly  
Clark County General Services  
500 South Grand Central Parkway, 5<sup>th</sup> floor  
Las Vegas, NV 89106

Subject: **Asbestos Survey - Bridger and Centennial Buildings**

225 Bridger Avenue  
310 South 3<sup>rd</sup> Street  
Las Vegas, Nevada

Dear Mr. Connolly:

We are pleased to submit the results of additional bulk samples taken from various locations throughout the Bridger and Centennial Buildings. Additional building materials samples included exterior wall plaster, interior wall plaster, drywall/joint compound, and roofing materials. The initial survey was performed in December 1996 and January 1997. Additional samples were collection on May 15, 1998 and May 18, 1998. Our current sample collection was performed in the month of July 1999.

We have incorporated the current results of the additional bulk samples and previous survey reports from other sources into the initial survey report. The initial asbestos survey consisted of a visual survey, bulk sample collection, laboratory analysis, and the preparation of this report. In our initial report, friable and non-friable building materials were found to contain asbestos during our survey. Recommendations regarding these asbestos-containing materials are identified in our report.

Clark County General Services  
Project No. 99-43324-07  
August 18, 1999  
Page 2.

If you have any questions concerning information contained in this report, please contact us at your convenience.

Respectfully submitted,

CONVERSE CONSULTANTS.



Dale Walsh, CIH, CSP  
Senior Industrial Hygienist

DWW:sc  
58/64BS



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# Asbestos Survey

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## 1.0 Introduction

On December 31, 1996 and January 2, 1997 Converse Consultants (Converse) conducted an asbestos bulk sample survey at the Bridger Building located at 225 Bridger Avenue in Las Vegas, Nevada.

On May 15, 1998 and May 18, 1998, additional bulk samples were collected from the 9<sup>th</sup> and 10<sup>th</sup> floor of the Bridger Building. Two (2) of the samples were interior wall plaster taken from the 9<sup>th</sup> and 10<sup>th</sup> floor plenums and one (1) was fire door insulation taken from a 10<sup>th</sup> floor hallway fire door. All three (3) samples reported non-detect for asbestos.

In the month of July 1999, Converse returned to the Bridger Building at the request of Clark County to quantify asbestos-containing materials (ACMs) and to collect additional samples. Converse also performed a complete survey of the Centennial Building located at 310 South 3<sup>rd</sup> Street. Information for the Centennial building has been included with this report.

## 1.1 Credentials

John M. Watkins and Angel Ramos (both accredited and licensed inspectors in the State of Nevada) performed the survey. Copies of these inspector's certification/accreditation are enclosed in Appendix A.

## 1.2 Survey

The purpose of the bulk sample survey was to identify ACMs utilized during construction of the buildings at the site. Friable asbestos is considered hazardous and refers to materials which can be crushed, pulverized, or reduced to powder by hand pressure when dry. Non-friable asbestos can be rendered friable by such actions as sanding, sawing, drilling, or breaking into pieces. The survey generally followed current recommended OSHA and EPA guidelines for surveying of ACM.

### 1.3 Bulk Sample Survey

The purpose of the bulk sample survey was to identify friable and non-friable ACMs used during construction of the building.

## 2.0 Methodology

### 2.1 Interviews

According to Mr. Brian Connolly, Clark County General Services Representative, there are original blueprints for the building at the subject site but he has no information on the current configuration of partition walls and recent renovations. The Blueprints available for review included only limited mechanical, plumbing and electrical drawings. These drawings were a limited source of information on current building conditions. Existing floor plans were available. This building was reportedly constructed before 1980.

Previous survey information for the building includes four reports that were generated by three firms: Ab-Haz Environmental, University Associates, and Western Technologies, Inc. The following reports are located in Appendix D.

- The November 10, 1987 University Associates report indicated that Structural Fireproofing, Pipe Insulation, Tank Insulation, Specialty Caulking, and Floor tile tested positive for asbestos.
- The December 2, 1991, Ab-Haz report indicated that Structural Fireproofing tested positive for asbestos. In the February 4, 1994 Ab-Haz report, Structural Fireproofing, Sheet Floor Covering, and Pipe insulation was found to contain asbestos.

- The June 24, 1998, Western Technologies, Inc. report indicated that asbestos was identified in the Structural Fireproofing, Pipe Insulation, and 9"x9" Floor tile and Floor tile adhesive.
- The recent surveys performed by Converse concur with the above reported asbestos containing materials. The exterior paint of the structure was sampled and the laboratory reported asbestos in four of the samples collected. See the recommendation section for possible options regarding demolition of the exterior of this structure.

Upon review of the conditions at the site, we found that many materials remained untested and were, therefore, the focus of our study. There were many samples taken in these four previous surveys of primarily two materials, pipe insulation (TSI) and fireproofing materials. Of the fifty-six pipe insulation samples analyzed, fifty-one tested positive for asbestos and of the seventy-two structural fireproofing samples analyzed, all tested positive for asbestos. Exterior wall plaster samples were collected on the 2<sup>nd</sup>, 3<sup>rd</sup>, and 4<sup>th</sup> garage levels, the laboratory reported less than 1% asbestos content in all of the samples collected. Converse assumes the information generated by these previous surveys is correct and complete for the materials tested. Therefore, this information is included into the survey data generated by our study.

## **2.2 Bulk Sample Survey**

Our visual survey was performed to classify each suspected building material by location and condition in order to establish homogeneous areas for bulk sample collection. Homogeneous areas refer to areas in which similar application, age, and appearance of building materials exist.

Following the visual portion of the survey, bulk samples were collected from areas representing the homogenous use of suspect building materials. A summary of these samples is presented in Appendix B.

In general, bulk samples were obtained by (1) adequately wetting the sample area with a water and surfactant mixture, and (2) placing bulk pieces of the building construction materials into labeled plastic bags. Where possible, bulk samples were obtained to the depth of the affected area. Bulk samples were transferred to an analytical laboratory with applicable chain-of-custody documentation.

### **3.0 Laboratory Testing**

#### **3.1 Bulk Sampling**

A total of one hundred and sixty-nine (169) bulk samples from the Bridger and Centennial buildings were collected and analyzed by Converse Consultants Mountain Region (CCMR) of Reno, Nevada. CCMR used the "point counting" method of analysis on three bulk samples to confirm asbestos content. CCMR is accredited under the National Voluntary Laboratory Accreditation Program (NVLAP) for asbestos analysis. All samples submitted for primary testing were analyzed by Polarized Light Microscopy (PLM). Laboratory analysis reports for these samples are enclosed in Appendix C.

#### **4.0 Asbestos Bulk Survey Findings**

Current State and Federal standards define an asbestos-containing material as "any material containing asbestos in excess of one percent by weight." Based on laboratory results and our survey, the materials that were tested and found to contain in excess of one-percent asbestos are presented below:

**Bridger Building**

<b>Location</b>	<b>Material</b>	<b>Friable?</b>	<b>Approximate Quantity</b>
Roof (Penthouse)	Roof Mastic	No	5 Gal.
	<i>Tank Insulation</i>	<i>Yes</i>	<i>250 s.f.</i>
	<i>Structural Fireproofing</i>	<i>Yes</i>	<i>2,400 s.f.</i>
Roof (Penthouse) (Continued)	<i>Pipe Fitting Insulation</i>	<i>Yes</i>	<i>50 each</i>
	Caulking	Yes	1 Gal.
10 <sup>th</sup> floor	<i>Structural Fireproofing</i>	<i>Yes</i>	<i>8,600 s.f.</i>
	<i>Pipe Insulation</i>	<i>Yes</i>	<i>350 l.f.</i>
	9"x9" Floor tile, tan	No	2,500 s.f.
9 <sup>th</sup> floor	<i>Structural Fireproofing</i>	<i>Yes</i>	<i>11,500 s.f.</i>
	<i>Pipe Insulation</i>		<i>Yes 350 l.f.</i>
	<i>12"x12" Floor tile, white</i>	<i>No</i>	<i>150 s.f.</i>
	9"x9" Floor tile, tan	No	2,500 s.f.
	Drywall/Joint Compound	No	**
8 <sup>th</sup> floor	<i>Structural Fireproofing</i>	<i>Yes</i>	<i>11,500 s.f.</i>
	<i>Pipe Insulation</i>	<i>Yes</i>	<i>350 l.f.</i>
	<i>Sheet floor covering</i>	<i>Yes</i>	<i>200 s.f.</i>
	9"x9" Floortile, tan	No	9,000 s.f.
	Drywall/Joint Compound	No	**
7 <sup>th</sup> floor	<i>Structural Fireproofing</i>	<i>Yes</i>	<i>11,500 s.f.</i>
	<i>Pipe Insulation</i>	<i>Yes</i>	<i>350 l.f.</i>
	<i>12"x12" Floor tile, white</i>	<i>No</i>	<i>75 s.f.</i>
	9"x9" Floortile, tan	No	2,400 s.f.
	Drywall/Joint Compound	No	**
6 <sup>th</sup> floor	<i>Structural Fireproofing</i>	<i>Yes</i>	<i>11,500 s.f.</i>
	<i>Pipe Insulation</i>	<i>Yes</i>	<i>350 l.f.</i>
	12"x12" Floortile, tan	No	85 s.f.
	<i>12"x12" Floortile, white</i>	<i>No</i>	<i>45 s.f.</i>
	Floortile adhesive	No	Include above
	Drywall/Joint Compound	No	**
5 <sup>th</sup> floor	<i>Structural Fireproofing</i>	<i>Yes</i>	<i>11,500 s.f.</i>
	<i>Pipe Insulation</i>		<i>Yes 350 l.f.</i>
	9"x9" Floor tile, tan	No	2400 s.f.
	Floortile adhesive	No	Included above
	Drywall/Joint Compound	No	**

<b>Location</b>	<b>Material</b>	<b>Friable?</b>	<b>Approximate Quantity</b>
4 <sup>th</sup> floor	<i>Structural Fireproofing</i>	Yes	11,500 s.f.
	<i>Pipe Insulation</i>	Yes	400 l.f.
	Exterior Paint	No	
3 <sup>rd</sup> floor	<i>Structural Fireproofing</i>	Yes	11,500 s.f.
	<i>Pipe Insulation</i>	Yes	400 l.f.
2 <sup>nd</sup> floor	<i>Pipe Insulation</i>	Yes	400 l.f.
	Exterior Paint	No	
1 <sup>st</sup> floor	<i>Structural Fireproofing</i>	Yes	12,600 s.f.
	<i>Pipe Insulation</i>	Yes	400 l.f.
	9"x9" Floor tile, tan	No	230 s.f.
	Floortile adhesive	No	Included above
	Drywall/Joint Compound	No	**

\*\* Drywall/Joint Compound quantities vary for each floor and should be quantified by a licensed abatement contractor. For estimations purposes only, we anticipate approximately 18,000 square feet of drywall/Joint compound for each floor with the exception of the 2<sup>nd</sup>, 3<sup>rd</sup>, and 4<sup>th</sup> floors.

**Note:** University Associates and/or Ab-Haz tested materials listed in Italics

- The materials listed above were observed to be in a condition that ranged from good to poor with small amounts of localized damage, presumably due to water damage, physical contact and other influences.
- On floors five through nine, 9"x9" tan floor tile and adhesive was found under carpet and in exposed areas. Random areas throughout these floors were viewed to determine extent of the floor tile. The quantities listed above are estimates.
- The estimated quantities above for the pipe insulation includes pipe straight runs and pipe fittings.
- Quality control sample results were consistent with primary sample results.

- Exterior concrete/paint samples collected in our recent survey from the southeast panel of the garage area and one area of the west paint/stucco wall contained asbestos greater than 1%. In a conversation with the laboratory, the three samples collected from these locations appear to be contaminated with a fire proofing material. All other exterior stucco, concrete, and paint samples collected during our survey indicated no asbestos greater than 1% in the materials sampled and submitted for laboratory analysis.
- Six additional paint/stucco samples were collected from the west wall of the Bridger building. All six samples returned non-detect for asbestos. Twenty-four (24) additional paint samples were collected from the south, east and north panels of the Bridger building, all samples returned with asbestos less than 1% with the exception of one sample collected from the 10<sup>th</sup> floor exterior stairway.

### **Centennial Building**

The laboratory reported no asbestos greater than 1% in the samples submitted for analysis.

Cost estimates for asbestos abatement and project monitoring is enclosed in Appendix E.

### **5.0 Conclusions and Recommendations**

Based on the laboratory analysis and our survey, friable and non-friable ACMs were identified in the Bridger Building. In general, these materials were found to range from poor to good condition with small amounts of localized damage, presumably due to physical contact, water damage, and other influences.

The following recommendations apply if demolition occurs where these ACMs are found. Regulations require removal of materials that are fri-

able or will become friable during renovation before building renovation. Per EPA regulations and guidance documents regarding demolition, this material should be considered regulated ACM and be removed before demolition.

Regarding the removal of ACMs found at the subject site, we recommend the following coordinated response actions, that at a minimum, should be undertaken prior to demolition:

1. A qualified asbestos abatement contractor licensed in the State of Nevada should perform any actions involving the removal of ACMs. Removal activities should conform to local, State, and Federal laws, ordinances, and regulations.
2. A qualified asbestos consultant licensed in the State of Nevada should be retained to assist in the design of the abatement project and to perform air quality sampling during and after the removal activities.
3. Notification of the authorities (OSHA and EPA) regulating the abatement of asbestos will be necessary before commencing any response action.

Until the building is demolished or all ACMs are abated, steps should be taken to notify building occupants of the presence of ACMs in occupied buildings so that exposure to airborne asbestos fibers can be reduced. If these ACMs remain in place and are not disturbed, the probability for significant exposure to airborne asbestos fibers by building occupants is low. Asbestos specific training is required for personnel working on ACMs or materials that are presumed ACMs, and for personnel performing cleaning activities where ACMs are located. At a minimum, the training should include asbestos awareness (2-hours) for all employees that may contact asbestos. If employees are to disturb asbestos, then additional training will be necessary.

In our opinion, a management plan should be implemented to manage ACMs at this site until the building is demolished or all ACMs have been abated at some time in the future. One element of the management plan, an Operations and Maintenance program would allow ACMs that are in good condition to remain in place if they remain undisturbed. The asbestos management plan will reduce both building occupant exposure to asbestos and the liability associated with ownership and/or operation of a building containing ACMs.

Regarding the exterior of the building, current Nevada State Regulations permit demolition of non-friable ACMs if they are handled in accordance with Section 618.951 of the Nevada State Regulations on Asbestos. Compliance with current regulations concerning non-friable ACM may be accomplished if the following practices are maintained:

1. The material is not sanded, power sawed, or drilled.
2. The material is removed in the largest sections practicable and carefully lowered to the ground.
3. The material is handled carefully to minimize breakage throughout removal, handling, and transportation to an authorized disposal site.
4. The material is wetted before removal and during subsequent handling, to the extent practicable.

At this point, the extent of asbestos in the building exterior stucco is not fully defined. Because some of the samples have been found to contain ACM, all materials similar to those must be assumed to contain asbestos except those areas already tested and found to be negative. If the exterior is to be demolished, either further testing must be conducted, or it must be considered ACM and have proper precautions taken.

## 6.0 Limitations

This report is for the use of Clark County General Services Department as it applies to the Bridger Building, located at 225 Bridger Avenue, and the Centennial Building located at 310 South 3<sup>rd</sup> Street in Las Vegas, Nevada.

This assessment should not be regarded as a guarantee that no further asbestos, beyond that which was suspected to be present (and sampled) during our investigation, is present at the property. In addition, asbestos is usually not distributed uniformly throughout a material and Converse cannot guarantee that all areas sampled are exactly as represented throughout the entire facility.

The conclusions presented in this report are professional opinions based on the data described in this report (including data collected by others). They are intended only for the purpose, site location and project indicated. The conclusions presented in this report are based on the assumption that conditions do not deviate from those observed during our study, as described in this report. No other warranty is either expressed or implied.

This report is based upon data and information obtained during Converse's current reconnaissance, laboratory data and information by others, and information provided by those individuals identified to Converse by the Client as being knowledgeable of the facility, its operation and processes. Therefore, the information and data presented regarding the property identified herein is based solely upon the condition of the property as of the dates of our site visits, supplemented by information and data obtained by Converse as described herein.

Converse has performed this work, made the findings, and proposed the recommendations described in this report in accordance with generally accepted and current environmental science and engineering common to our local area of practice at the time the work was per-

formed. This report should be considered accurate only to the degree implied by the methods used in its preparation and data provided by others. It must also be understood that changing circumstances in the environment, applicable legislation and in the use of the property can alter the validity of conclusions and information contained in this report.

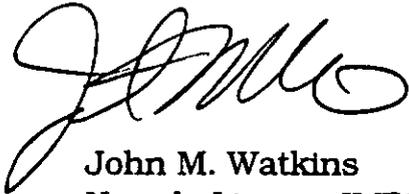
The opinions, conclusions, and recommendations presented herein apply to site conditions existing at the time of our study. They cannot necessarily apply to site changes made of which this office is not aware and has not had opportunity to evaluate. Changes in the conditions of the subject property can occur with time, because of the natural processes or the works of man, on the subject site or on adjacent properties. Changes in applicable engineering or regulatory standards can also occur as the result of legislation or from the broadening of knowledge. Accordingly, the findings of this report may be invalidated, wholly or in part, by changes beyond Converse's control.

Converse is not responsible for any claims or damages associated with interpretation of available information. This assessment should not be regarded as a guarantee that no further asbestos, beyond that which was suspected to be present (and sampled) during our investigation, is present at the property. In addition, asbestos is usually not distributed uniformly throughout a material and Converse cannot guarantee that all areas sampled are exactly as represented throughout the entire facility. In the event that changes in the nature of the property occur, or additional relevant information about the property is brought to our attention, the recommendations contained in this assessment may not be valid unless these changes and additional relevant information are reviewed and the recommendations of this assessment are modified or verified in writing.

Thank you for the opportunity to be of service. Should you have any questions or comments regarding this report, please do not hesitate to call.

Respectfully submitted,

CONVERSE CONSULTANTS



John M. Watkins  
Nevada License IMP099  
Project Geologist

JMW:sc  
58/64BS

Encl: Appendices A, B, C, D, and E

Dist: 2/Addressee



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# Inspector Credentials

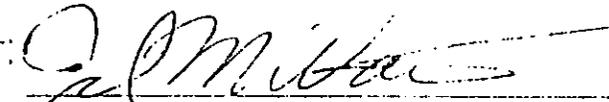
# Appendix A

STATE OF NEVADA  
DEPARTMENT OF BUSINESS AND INDUSTRY  
DIVISION OF INDUSTRIAL RELATIONS  
OCCUPATIONAL SAFETY AND HEALTH ENFORCEMENT SECTION  
ASBESTOS CONTROL PROGRAM

DATE 01/12/99  
LICENSE NO. IPM0199  
INSPECTOR  
PROJECT MONITOR  
PROJECT DESIGNER

DATE 02/01/99

LICENSE NO. IPM0199

  
Signature  
[Wallet Card - Fold Here]

THE ASBESTOS ABATEMENT CONSULTANT NAMED BELOW IS LICENSED UNDER THE  
PROVISIONS OF CHAPTER 618 OF N.R.S. AND N.A.C. THIS LICENSE EXPIRES ON 01/28/00

JOHN M. WATKINS  
CONVERSE CONSULTANTS INC  
731 PILOT ROAD SUITE H  
LAS VEGAS NV 89123

STATE OF NEVADA  
DEPARTMENT OF BUSINESS AND INDUSTRY  
DIVISION OF INDUSTRIAL RELATIONS  
OCCUPATIONAL SAFETY AND HEALTH  
ENFORCEMENT SECTION  
ASBESTOS ABATEMENT CONSULTANT  
JOHN M. WATKINS  
CONVERSE CONSULTANTS INC

HAS PAID THE FEE REQUIRED BY  
CHAPTER 618 OF N.A.C.  
THIS LICENSE EXPIRES ON 1/28/00



# Appendix B



50<sup>th</sup> Anniversary

A Wholly Owned Subsidiary of The Converse Professional Group

# Converse Consultants Southwest, Inc.

Celebrating 50 Years of Dedication in  
Engineering and Environmental Sciences

## POLARIZED LIGHT MICROSCOPY ANALYSIS REPORT

Client: CECSW  
731 PILOT ROAD, SUITE H  
LAS VEGAS, NEVADA 89119-4429  
Account: NA  
Contact: JOHN WATKINS  
Project No: 9643995-01  
CLARK COUNTY GENERAL SERVICES

Date Received: 01/06/97  
Data Analyzed: 01/06&07/97  
Date Reported: 01/08/97  
Reported To: JOHN WATKINS  
Submitted By: FEDERAL EXPRESS  
Report No.: 71-34682  
P.O. #: NONE PROVIDED

I certify that these results are accurate for the samples obtained and comply with accepted methods of analysis.

Lab Manager, Dan R. Dolk

Analyst, Dan R. Dolk

RESULTS: LAB SAMPLE # LAB DESCRIPTION LOCATION	CLIENT SAMPLE #	PERCENT & TYPE OF ASBESTOS	PERCENT & TYPE OF NON-ASBESTOS	LAYER* LH APPEARANCE* F, NF
34682 Grey Ceiling Tile 1st Floor North, East Court Room West Side	BB-CT-01	None Detected	30% Cellulose 60% Mineral Wool 5% Mineral Cleavages 5% Paint	I F
34683 Grey Ceiling Tile 1st Floor North East Court Room East Side	BB-CT-102	None Detected	20% Cellulose 65% Mineral Wool 10% Mineral Cleavages 5% Paint	I F
34684 Grey Ceiling Tile 1st Floor North East Court Room North Central	BB-CT-103	None Detected	20% Cellulose 65% Mineral Wool 10% Mineral Cleavages 5% Paint	I F
34685 Grey Ceiling Tile Treasurer (controller) Office Area	BB-CT-104	None Detected	25% Cellulose 60% Mineral Wool 10% Mineral Cleavages 5% Paint	I F
34686 Grey Ceiling Tile Treasurer (Controller) Office Area	BB-CT-105	None Detected	25% Cellulose 60% Mineral Wool 10% Mineral Cleavages 5% Paint	I F
34687 Grey Ceiling Tile Treasurer (controller) Office Area	BB-CT-106	None Detected	15% Cellulose 55% Mineral Wool 10% Mineral Cleavages 5% Paint 15% Perlite	I F

Converse Consultants Southwest, Inc.  
4840 Mill Street, Suite 5  
Reno, Nevada 89502

Telephone: (702) 856-3833  
Facsimile: (702) 856-3513

RESULTS: LAB SAMPLE # LAB DESCRIPTION LOCATION	CLIENT SAMPLE #	PERCENT & TYPE OF ASBESTOS	PERCENT & TYPE OF NON-ASBESTOS	LAYER* I-F APPEARANCE* F-NF
34688a White Plaster 1st Floor North East Courtroom	BB-IWP-107a	None Detected	<1% Cellulose 25% Carbonate Binders 30% Aggregate 45% Mineral Cleavages	I F
34688b Tan Plaster 1st Floor North East Courtroom	BB-IWP-107b	None Detected	25% Binders 50% Aggregate 25% Mineral Cleavages	I NF
34688c Grey Plaster 1st Floor North East Courtroom	BB-IWP-107c	None Detected	30% Binders 40% Aggregate 30% Mineral Cleavages	I NF
34689a White Plaster 1st Floor North Entrance Area	BB-IWP-108a	None Detected	5% Cellulose 65% Carbonate Binders 30% Mineral Cleavages	I F
34689b Tan Plaster 1st Floor North Entrance Area	BB-IWP-108b	None Detected	5% Cellulose 30% Binders 40% Aggregate 25% Mineral Cleavages	I F
34689c Grey Plaster 1st Floor North Entrance Area	BB-IWP-108c	None Detected	50% Binders 50% Mineral Cleavages	I F
34690 Grey Plaster 1st Floor Central Area	BB-IWP-109	None Detected	<1% Cellulose 30% Binders 40% Aggregate 30% Mineral Cleavages	I F
34691a Grey Floor Tile 1st Floor Hallway to West Exit	BB-FT-110a	None Detected	<1% Cellulose 40% Carbonate Binders 30% Organic Binders 30% Mineral Cleavages	I F
34691b Light Mastic 1st Floor Hallway to West Exit	BB-FT-110b	None Detected	5% Cellulose 20% Carbonate Binders 55% Organic Binders 20% Mineral Cleavages	I F
34692a Grey Floor Tile North Storage Shower Area	BB-FT-111a	None Detected	55% Carbonate Binders 40% Organic Binders 5% Mineral Cleavages	I NF
34692b Light Brown Mastic North Storage Shower Area	BB-FT-111b	None Detected	5% Cellulose <1% Glass Fibers 20% Carbonate Binders 60% Organic Binders 15% Mineral Cleavages	I F
34693 Tan Adhesive 1st Floor North East Court Room	BB-WFA-112	None Detected	80% Organic Binders 20% Mineral Cleavages	I NF

RESULTS: LAB SAMPLE # LAB DESCRIPTION LOCATION	CLIENT SAMPLE #	PERCENT. & TYPE OF ASBESTOS	PERCENT. & TYPE OF NON-ASBESTOS	LAYER* I-H APPEARANCE* F-NF
34694a Yellow Floor Tile 9"x9" 1st Floor Vault	BB-FT-113a	3-5% Chrysotile	45% Carbonate Binders 30% Organic Binders 20% Mineral Cleavages	I F
34694b Black Mastic 1st Floor Vault	BB-FT-113b	10-20% Chrysotile	60% Organic Binders 20% Mineral Cleavages	I F
34695 Yellow Ceiling Tile 1st Floor Vault	BB-CT-114	None Detected	90% Wood Fibers 5% Binders 5% Paint	I F
34696 Yellow Ceiling Tile 1st Floor Vault	BB-CT-115	None Detected	90% Wood Fibers 5% Binders 5% Paint	I F
34697 Yellow Ceiling Tile 1st Floor Vault	BB-CT-116	None Detected	90% Wood Fibers 5% Binders 5% Paint	I F
34968 White Duct Tape 4th Garage Level	BB-DI-117	None Detected	60% Cellulose 20% Organic Binders 20% Mineral Cleavages	I F
34699 Grey Plaster 4th Garage Level	BB-EWP-118	None Detected	<1% Cellulose 50% Binders 50% Aggregate	I F
34700 Grey Plaster 4th Garage Level	BB-CP-119	None Detected	30% Binders 40% Aggregate 30% Mineral Cleavages	I NF
34701 Grey Plaster 4th Garage Level	BB-CP-120	None Detected	<1% Cellulose 30% Binders 50% Aggregate 20% Mineral Cleavages	I F
34702 Grey Plaster 4th Garage Level	BB-CP-121	None Detected	30% Binders 50% Aggregate 20% Mineral Cleavages	I NF
34703 Grey Plaster 4th Garage Level	BB-CP-122	None Detected	<1% Cellulose 30% Binders 40% Aggregate 30% Mineral Cleavages	I F
34704 Grey Plaster 4th Garage Level	BB-CP-123	None Detected	30% Binders 50% Aggregate 20% Mineral Cleavages	I NF
34705 Light Grey Weaving 4th Garage Level	BB-DI-124	None Detected	60% Cellulose 25% Organic Binders 15% Mineral Cleavages	I F
34706 Cream Weaving 4th Garage Level	BB-DI-125	None Detected	60% Cellulose 25% Organic Binders 15% Mineral Cleavages	I F

RESULTS: LAB SAMPLE # LAB DESCRIPTION LOCATION	CLIENT SAMPLE #	PERCENT & TYPE OF ASBESTOS	PERCENT & TYPE OF NON-ASBESTOS	LAYER* I-H APPEARANCE* F-NF
34707 Grey Ceiling Tile 5th Floor Near Elevators	BB-CT-126	None Detected	28% Cellulose 70% Mineral Wool 2% Paint	I F
34708 Yellow Mastic 5th Floor North side Office Hallway	BB-CA-127	None Detected	2% Cellulose 3% Glass Fibers 75% Organic Binders 20% Mineral Cleavages	I F
34709a Cream Floor Tile 9"x9" 5th Floor Men's Rest Room	BB-FT-128a	>1-3% Chrysotile	47% Carbonate Binders 40% Organic Binders 10% Mineral Cleavages	I F
34709b Black Mastic 5th Floor Men's Rest Room	BB-FT-128b	5-10% Chrysotile	50% Organic Binders 40% Mineral Cleavages	I F
34710 Black Adhesive Electrical Room Across Men's Room on 5th Floor	BB-FTA-129	None Detected	5% Cellulose 5% Synthetic 70% Organic Binders 20% Mineral Cleavages	I F
34711a Yellow Floor Tile 9"x9" 5th Floor Break Room	BB-FT-130a	>1-3% Chrysotile	50% Carbonate Binders 30% Organic Binders 7% Mineral Cleavages	I F
34711b Black Mastic 5th Floor Break Room	BB-FT-130b	3-5% Chrysotile	70% Organic Binders 25% Mineral Cleavages	I F
34712a Beige Floor Tile 6th Floor Closet Area Side Floor	BB-FT-131a	3-5% Chrysotile	55% Carbonate Binders 30% Organic Binders 10% Mineral Cleavages	I F
34712b Grey Floor Tile 12"x12" 6th Floor Closet Area Side Floor	BB-FT-131b	>1-3% Chrysotile	57% Carbonate Binders 30% Organic Binders 10% Mineral Cleavages	I F
34713a Cream Floor Tile 9"x9" 6th Floor Closet Area West Side Below Sample #BB- FT-131	BB-FT-132a	>1-3% Chrysotile	60% Carbonate Binders 30% Organic Binders 7% Mineral Cleavages	I F
34713b Tan Mastic 6th Floor Closet Area West Side Below Sample #BB- FT-131	BB-FT-132b	None Detected	5% Cellulose 20% Carbonate Binders 70% Organic Binders 5% Mineral Cleavages	I F
34713c Black Mastic 6th Floor Closet Area West Side Below Sample #BB- FT-131	BB-FT-132c	5-10% Chrysotile	70% Organic Binders 20% Mineral Cleavages	I F

RESULTS: LAB SAMPLE # LAB DESCRIPTION LOCATION	CLIENT SAMPLE #	PERCENT & TYPE OF ASBESTOS	PERCENT & TYPE OF NON-ASBESTOS	LAYER* I-H APPEARANCE* F-NF
34714 Grey Floor Tile 6th floor closet Area East Side of Floor	BB-FT-133	None Detected	<1% Cellulose 55% Carbonate Binders 30% Organic Binders 15% Mineral Cleavages	I F
34715a Grey Floor Tile 12"x12" 6th Floor Closet Area East Side of Floor	BB-FT-134a	<1% Chrysotile	55% Carbonate Binders 30% Organic Binders 15% Mineral Cleavages	I F
34715b Yellow Mastic 6th Floor Closet Area East Side of Floor	BB-FT-134b	None Detected	5% Cellulose <1% Glass Fibers 5% Synthetic 60% Organic Binders 30% Mineral Cleavages	I F
34716a Grey Floor Tile Below Sample BB-FT-134a	BB-FT-135a	None Detected	60% Carbonate Binders 30% Organic Binders 10% Mineral Cleavages	I F
34716b Tan Mastic Below Sample BB-FT-134b	BB-FT-135b	None Detected	<1% Cellulose <1% Synthetic 15% Carbonate Binders 80% Organic Binders 5% Mineral Cleavages	I F
34717a Beige Floor Tile 6th Floor East Closet Area	BB-FT-136a	None Detected	<1% Cellulose 60% Carbonate Binders 30% Organic Binders 10% Mineral Cleavages	I F
34717b Brown Mastic 6th Floor East Closet Area	BB-FT-136b	None Detected	5% Cellulose 75% Organic Binders 20% Mineral Cleavages	I F
34717c Grey Floor Tile 6th Floor East Closet Area	BB-FT-136c	None Detected	<1% Cellulose 50% Carbonate Binders 30% Organic Binders 20% Mineral Cleavages	I F
34718 Grey Ceiling Tile North Side office, 7th Floor	BB-CT-137	None Detected	10% Cellulose 75% Mineral Wool 10% Mineral Cleavages 5% Paint	I F
34719 Tan Ceiling Tile North Side Offices, 7th Floor	BB-CT-138	None Detected	5% Cellulose 75% Mineral Wool 15% Mineral Cleavages 5% Paint	I F
34720 Grey Ceiling Tile North Side Offices, 7th Floor	BB-CT-139	<1% Chrysotile	10% Cellulose 65% Mineral Wool 20% Mineral Cleavages 5% Paint	I F
34721 Yellow Ceiling Tile Womens Rest Room	BB-CT-140	None Detected	<1% Cellulose 70% Glass Fibers 25% Binders 5% Paint	I F

RESULTS: LAB SAMPLE # LAB DESCRIPTION LOCATION	CLIENT SAMPLE #	PERCENT & TYPE OF ASBESTOS	PERCENT & TYPE OF NON-ASBESTOS	LAYER* LH APPEARANCE* F-NF
4722 Yellow Ceiling Tile North Office Area 7th Floor	BB-CT-141	None Detected	<1% Cellulose 70% Glass Fibers 20% Binders 10% Mineral Cleavages	I F
4723 Yellow Ceiling Tile Womens Rest Room 7th Floor	BB-CT-142	None Detected	<1% Cellulose 70% Glass Fibers 20% Binders 10% Paint	I F
34724a Cream Floor Tile 7th Floor North Side, Small Room with Sink	BB-FT-143a	<1% Chrysotile	60% Carbonate Binders 30% Organic Binders 10% Mineral Cleavages	I F
34724b Brown Mastic 7th Floor North Side, Small Room with Sink	BB-FT-143b	None Detected	<1% Cellulose 80% Organic Binders 20% Mineral Cleavages	I F
34725 Cream Floor Tile 9"x9" 7th Floor Womens Rest Room	BB-FT-144	3-5% Chrysotile	30% Carbonate Binders 45% Organic Binders 20% Mineral Cleavages	I F

Attached are the results of analysis of bulk samples submitted for asbestos identification. Converse Consultants MR, Inc. follows EPA Method EPA/600/R-93/116; July, 1993.

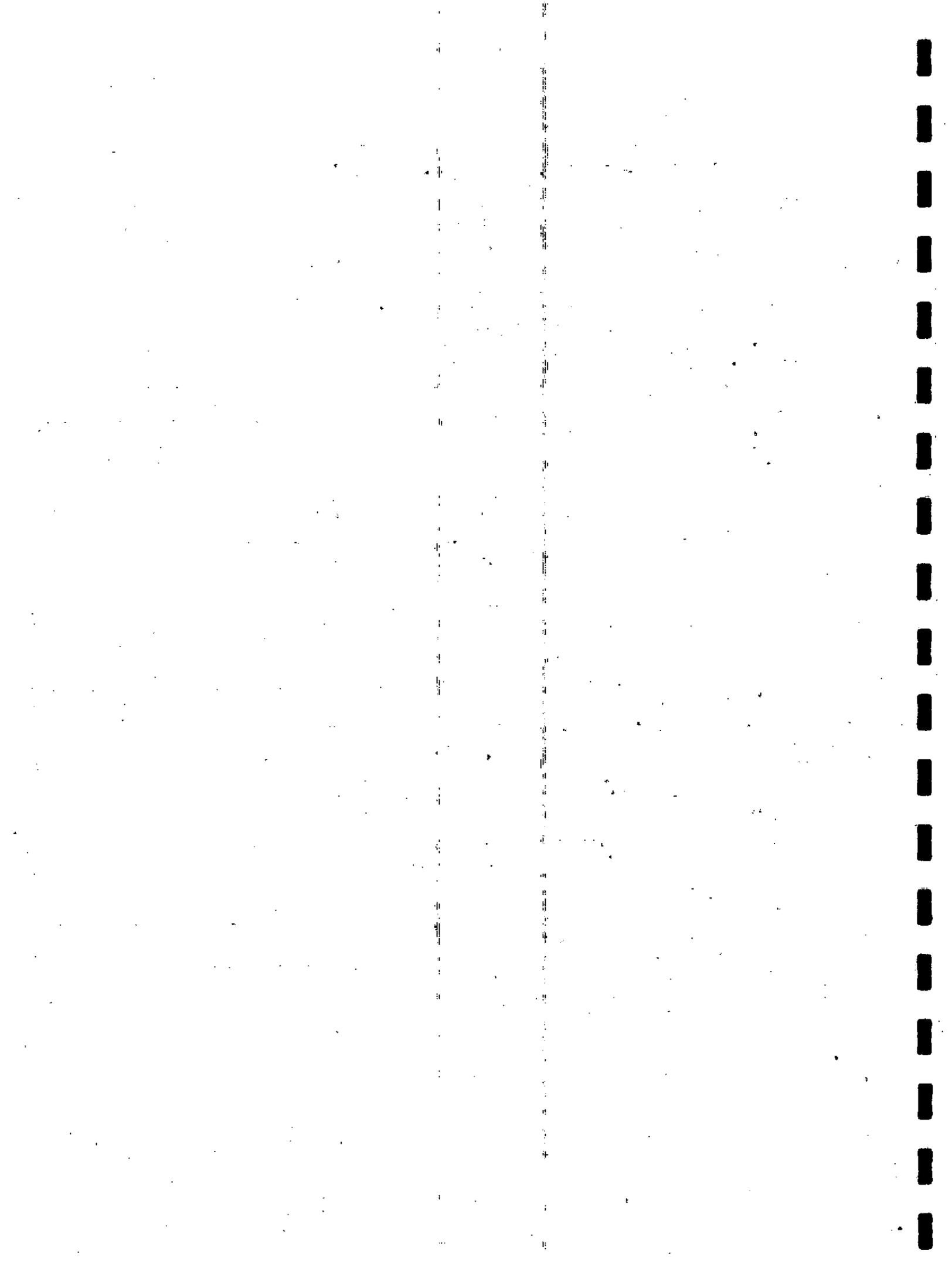
Each sample was initially examined under a stereoscopic microscope at a magnification of 10x to 60x. Fibrous material was examined for morphology and content. Portions of each sample were immersed in a fluid with a known refractive index. The sample was examined under polarized light using a Nikon Labophot microscope with a McCrone Dispersion Staining objective under 100X magnification. Optical characteristics of the fibrous material were examined to determine the mineralogy of the fiber. The observed optical characteristics include angles of extinction, signs of elongation and dispersion staining colors. Asbestos fiber content is estimated by optically comparing the quantity of asbestos material and non-asbestos material to establish estimated percentages.

Bulk sampling may not have been performed by Converse Consultants personnel. No warranty is made as to the acceptability of sampling strategies.

Converse Consultants MR, Inc., is National Voluntary Laboratory Accreditation Program accredited. Our NVLAP Laboratory I.D. Number is 102091. This report must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. This report must not be reproduced except in full with the approval of the laboratory. This report relates only to the items tested.

\*I in the layer column above indicates an inhomogeneous sample; H indicates an homogenous sample.

\*F in the appearance column indicates a fibrous sample; NF indicates a nonfibrous sample.





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# Converse Consultants Southwest, Inc.

Celebrating 50 Years of Dedication in  
Engineering and Environmental Sciences



## POLARIZED LIGHT MICROSCOPY ANALYSIS REPORT

Client: CECSW  
731 PILOT ROAD, SUITE H  
RENO, NEVADA 89119-4429

Account: NA

Contact: JOHN WATKINS

Project No: 9643995-01  
CLARK COUNTY GENERAL SERVICES

Date Received: 01/06/97  
Data Analyzed: 01/07/97  
Date Reported: 01/09/97  
Reported To: JOHN WATKINS  
Submitted By: FEDERAL EXPRESS  
Report No.: 71-34726  
P.O. #: NONE PROVIDED

I certify that these results are accurate for the samples obtained and comply with accepted methods of analysis.

Lab Manager, Dan R. Dolk

Analyst, Dan R. Dolk

RESULTS: LAB SAMPLE # LAB DESCRIPTION LOCATION	CLIENT SAMPLE #	PERCENT & TYPE OF ASBESTOS	PERCENT & TYPE OF NON-ASBESTOS	LAYER* I-H APPEARANCE* F-NF
34726 Yellow Mastic 5th Floor Ladies Rest Room	BB-CTA-145	None Detected	<1% Cellulose 90% Binders 10% Mineral Cleavages	I F
34727 Beige Drywall 5th Floor Office/Above Ceiling	BB-DWM-146	None Detected	10% Processed Paper 50% Binders 40% Mineral Cleavages	I F
34728 Grey Plaster 5th Floor Men's Rest Room Above Ceiling	BB-IWP-147	None Detected	<1% Cellulose 40% Binders 20% Aggregate 40% Mineral Cleavages	I F
34729 Beige Drywall 5th Floor Office/Above Ceiling	BB-DWM-148	None Detected	<1% Glass Fibers 10% Processed Paper 60% Binders 30% Mineral Cleavages	I F
34730a White Skimcoat 5th Floor	BB-IWP-149a	None Detected	15% Talc 35% Binders 20% Gypsum 30% Mineral Cleavages	I F
34730b White Plaster 5th Floor	BB-IWP-149b	None Detected	30% Binders 30% Aggregate 40% Mineral Cleavages	I NF

Converse Consultants Southwest, Inc.  
4840 Mill Street, Suite 5  
Reno, Nevada 89502

Telephone: (702) 856-3833

RESULTS: LAB SAMPLE # LAB DESCRIPTION LOCATION	CLIENT SAMPLE #	PERCENT & TYPE OF ASBESTOS	PERCENT & TYPE OF NON-ASBESTOS	LAYER* I-H APPEARANCE* F-NF
34731 Grey Ceiling Tile 6th Floor	BB-CT-150	None Detected	30% Cellulose 50% Mineral Wool 5% Mineral Cleavages 5% Paint 10% Perlite	I F
34732 Grey Ceiling Tile 6th Floor	BB-CT-151	None Detected	30% Cellulose 45% Mineral Wool 5% Mineral Cleavages 5% Paint 15% Perlite	I F
34733 Grey Ceiling Tile 6th Floor	BB-CT-152	None Detected	35% Cellulose 50% Mineral Wool 5% Paint 10% Perlite	I F
34734 Grey Ceiling Tile 7th Floor	BB-CT-153	None Detected	30% Cellulose 65% Mineral Wool 5% Paint	I F
34735 Grey Ceiling Tile 7th Floor	BB-CT-154	None Detected	30% Cellulose 50% Mineral Wool 5% Paint 15% Perlite	I F
34736 White Drywall 7th Floor Room #732	BB-DWM-155	None Detected	<1% Glass Fibers 10% Processed Paper 70% Binders 20% Mineral Cleavages	I F
34737 Grey Ceiling Tile 7th Floor	BB-CT-156	None Detected	30% Cellulose 45% Mineral Wool 5% Mineral Cleavages 5% Paint 15% Perlite	I F
34738 Grey Plaster 7th Floor	BB-IWP-157	None Detected	30% Binders 50% Aggregate 20% Mineral Cleavages	I NF
34739 White Drywall 7th Floor Entrance Room	BB-DWM-158	None Detected	<1% Glass Fibers 10% Processed Paper 5% Talc 55% Binders 30% Mineral Cleavages	I F
34740 Grey Plaster 8th Floor Ladies Rest Room	BB-IWP-159	>1-3% Chrysotile	7% Cellulose 30% Binders 60% Mineral Cleavages	I F
34741 Grey Plaster 8th Floor Ladies Rest Room	BB-IWP-160	None Detected	30% Binders 40% Aggregate 30% Mineral Cleavages	I NF
34742a Beam Joint Compound 8th Floor Hallway Near Elevator	BB-DWM-161a	3-5% Chrysotile	5% Cellulose 60% Carbonate Binders 40% Mineral Cleavages	I F

RESULTS: LAB SAMPLE # LAB DESCRIPTION LOCATION	CLIENT SAMPLE #	PERCENT & TYPE OF ASBESTOS	PERCENT & TYPE OF NON-ASBESTOS	LAYER* I-H APPEARANCE* F-NF
34742b White Drywall 9th Floor Hallway Near Elevator	BB-DWM-161b	None Detected	10% Processed Paper 50% Binders 40% Mineral Cleavages	I F
34743 Grey Plaster 10th Floor Ladies Room	BB-IWP-162	None Detected	30% Binders 40% Aggregate 30% Mineral Cleavages	I NF
34744 White Drywall 10th Floor Hallway Near Elevator	BB-OWM-163	None Detected	10% Processed Paper 60% Binders 30% Mineral Cleavages	I F
34745a Black Roofing Roof Northwest Side	BB-RM-164a	None Detected	5% Cellulose <1% Synthetic 65% Organic Binders 30% Mineral Cleavages	I F
34745b Black Roofing Roof Northwest Side	BB-RM-164b	None Detected	<1% Cellulose <1% Glass Fibers <1% Synthetic 50% Organic Binders 50% Mineral Cleavages	I F
34745c Black Roofing Roof Northwest Side	BB-RM-164c	None Detected	30% Synthetic 30% Organic Binders 40% Mineral Cleavages	I F
34745d Black Roofing Roof Northwest Side	BB-RM-164d	None Detected	10% Cellulose <1% Glass Fibers 30% Synthetic 30% Organic Binders 30% Mineral Cleavages	I F
34745e Black Roofing Roof Northwest Side	BB-RM-164e	None Detected	10% Cellulose 40% Organic Binders 50% Mineral Cleavages	I F
34746a Black Roofing Roof Northwest Side	BB-RM-165a	None Detected	20% Synthetic 50% Organic Binders 30% Mineral Cleavages	I F
34746b Black Roofing Roof Northwest Side	BB-RM-165b	None Detected	20% Synthetic 50% Organic Binders 30% Mineral Cleavages	I F
34747 Black Roofing Roof Northwest Side	BB-RM-166	None Detected	25% Synthetic 25% Organic Binders 30% Aggregate 20% Mineral Cleavages	I F
34748 Black Roofing Roof Northwest Side	BB-RM-167	None Detected	10% Cellulose 30% Synthetic 30% Organic Binders 30% Mineral Cleavages	I F
34749 Grey Plaster 9th Floor	BB-IWP-168	None Detected	40% Binders 30% Aggregate 30% Mineral Cleavages	I NF



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# Converse Consultants Southwest, Inc.

Celebrating 50 Years of Dedication in  
Engineering and Environmental Sciences

## POLARIZED LIGHT MICROSCOPY ANALYSIS REPORT

Client: CECSW  
731 PILOT ROAD, SUITE H  
LAS VEGAS, NEVADA 89119-4429  
Account: NA  
Contact: E. BLACKMAN  
Project No: 9643995-01  
CLARK COUNTY GENERAL SERVICES

Date Received: 01/07/97  
Data Analyzed: 01/08/97  
Date Reported: 01/09/97  
Reported To: E. BLACKMAN  
Submitted By: FEDERAL EXPRESS  
Report No.: 71-34776  
P.O. #: NONE PROVIDED

I certify that these results are accurate for the samples obtained and comply with accepted methods of analysis.

Lab Manager, Dan R. Dolk

Analyst, Dan R. Dolk

RESULTS LAB SAMPLE # LAB DESCRIPTION LOCATION	CLIENT SAMPLE #	PERCENT & TYPE OF ASBESTOS	PERCENT & TYPE OF NON-ASBESTOS	LAYER I-H APPEARANCE F-NF
34776a Black Roofing Southwest Corner - Upper Secondary Roof	BB-RM-169a	None Detected	<1% Cellulose <1% Glass Fibers 5% Synthetic 40% Organic Binders 55% Mineral Cleavages	I F
34776b Black Roofing Southwest Corner - Upper Secondary Roof	BB-RM-169b	None Detected	30% Synthetic 40% Organic Binders 30% Mineral Cleavages	I F
34776c Black Roofing Southwest Corner - Upper Secondary Roof	BB-RM-169c	None Detected	<1% Cellulose 5% Glass Fibers 5% Synthetic 50% Organic Binders 40% Mineral Cleavages	I F
34776d Black Roofing Southwest Corner - Upper Secondary Roof	BB-RM-169d	None Detected	5% Cellulose <1% Glass Fibers <1% Synthetic 55% Organic Binders 40% Mineral Cleavages	I F
34776e Black Roofing Southwest Corner - Upper Secondary Roof	BB-RM-169e	None Detected	5% Cellulose <1% Glass Fibers <1% Synthetic 45% Organic Binders 50% Mineral Cleavages	I F

Converse Consultants Southwest, Inc.  
4840 Mill Street, Suite 5  
Reno, Nevada 89502

Telephone: (702) 856-3833  
Facsimile: (702) 856-3513

RESULTS: LAB SAMPLE # LAB DESCRIPTION LOCATION	CLIENT SAMPLE #	PERCENT & TYPE OF ASBESTOS	PERCENT & TYPE OF NON-ASBESTOS	LAYER* I-H APPEARANCE* F-NF
34776f Black Roofing Southwest Corner - Upper Secondary Roof	BB-RM-169f	None Detected	35% Cellulose 5% Glass Fibers 45% Organic Binders 15% Mineral Cleavages	I F
34777a Black Roofing Northeast Corner of Main Roof - near Metal Dome	BB-RM-170a	None Detected	<1% Cellulose 30% Synthetic 40% Organic Binders 30% Mineral Cleavages	I F
34777b Black Roofing Northeast Corner of Main Roof - near Metal Dome	BB-RM-170b	None Detected	<1% Cellulose <1% Glass Fibers 70% Organic Binders 30% Mineral Cleavages	I F
34777c Black Roofing Northeast Corner of Main Roof - near Metal Dome	BB-RM-170c	None Detected	30% Synthetic 40% Organic Binders 30% Mineral Cleavages	I F
34777d Black Roofing Northeast Corner of Main Roof - near Metal Dome	BB-RM-170d	None Detected	<1% Cellulose <1% Glass Fibers 60% Organic Binders 40% Mineral Cleavages	I F
34777e Black Roofing Northeast Corner of Main Roof - near Metal Dome	BB-RM-170e	None Detected	30% Glass Fibers 40% Organic Binders 30% Mineral Cleavages	I F
34777f Black Roofing Northeast Corner of Main Roof - near Metal Dome	BB-RM-170f	None Detected	30% Cellulose 20% Glass Fibers 40% Organic Binders 10% Mineral Cleavages	I F

Attached are the results of analysis of bulk samples submitted for asbestos identification. Converse Consultants MR, Inc. follows EPA Method EPA/600/R-93/116; July, 1993.

Each sample was initially examined under a stereoscopic microscope at a magnification of 10x to 60x. Fibrous material was examined for morphology and content. Portions of each sample were immersed in a fluid with a known refractive index. The sample was examined under polarized light using a Nikon Labophot microscope with a McCrone Dispersion Staining objective under 100X magnification. Optical characteristics of the fibrous material were examined to determine the mineralogy of the fiber. The observed optical characteristics include angles of extinction, signs of elongation and dispersion staining colors. Asbestos fiber content is estimated by optically comparing the quantity of asbestos material and non-asbestos material to establish estimated percentages.

Bulk sampling may not have been performed by Converse Consultants personnel. No warranty is made as to the acceptability of sampling strategies.

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I in the layer column above indicates an inhomogeneous sample; H indicates an homogenous sample.  
F in the appearance column indicates a fibrous sample; NF indicates a nonfibrous sample.



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# Converse Consultants Southwest, Inc.

50th Anniversary

Celebrating 50 Years of Dedication in Engineering and Environmental Sciences

## POLARIZED LIGHT MICROSCOPY ANALYSIS POINT COUNT REPORT

Client: CECSW  
 731 PILOT ROAD, SUITE H  
 LAS VEGAS, NEVADA 89119-4429

Account: NA

Contact: JOHN WATKINS

Project No: 9643996-01  
 CLARK COUNTY GENERAL SERVICES

Date Received: 01/13/97  
 Data Analyzed: 01/13/97  
 Date Reported: 01/14/97  
 Reported To: JOHN WATKINS  
 Submitted By: FEDERAL EXPRESS  
 Report No.: 71-35357  
 P.O. #: NONE PROVIDED

I certify that these results are accurate for the samples obtained and comply with accepted methods of analysis.

Lab Manager, Dan R. Dolk

Analyst, Dan R. Dolk

RESULTS: LAB. SAMPLE # LOCATION DESCRIPTION	CLIENT SAMPLE #	PERCENT & TYPE OF ASBESTOS	PERCENT & TYPE OF NON-ASBESTOS	LAYER* I-H	APPEAR* F-NF
35357 Old Sample #34720	BB-CT-139	0.5% Chrysotile			
35359 Old Sample #34740	BB-WP-159	4.5% Chrysotile			

These results represent a point count, this report supercedes the previous analysis results.

Attached are the results of analysis of bulk samples submitted for asbestos identification. Converse Consultants MR, Inc. follows EPA Method PA/600/R-93/116; July, 1993.

Each sample was initially examined under a stereoscopic microscope at a magnification of 10x to 60x. Fibrous material was examined for morphology and content. Portions of each sample were immersed in a fluid with a known refractive index. The sample was examined under polarized light using a Nikon Labophot microscope with a McCrone Dispersion Staining objective under 100X magnification. Optical characteristics of the fibrous material were examined to determine the mineralogy of the fiber. The observed optical characteristics include angles of extinction, signs of elongation and dispersion staining colors. Asbestos fiber content is established by point counting.

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\*I in the layer column above indicates an inhomogeneous sample; H indicates an homogenous sample.  
 \*F in the appearance column indicates a fibrous sample; NF indicates a nonfibrous sample.

Converse Consultants Southwest, Inc.  
 4840 Mill Street, Suite 5  
 Reno, Nevada 89502

Telephone: (702) 856-3833



**Forensic Analytical**  
Analytical Report

San Francisco • 3777 Depot Road, Suite 409, Hayward, CA 94545 • Phone 510/887-8828 • Fax 510/887-4218  
Los Angeles • 2959 Pacific Commerce Drive, Rancho Dominguez, CA 90221 • Phone 310/763-2374 • Fax 310/763-8664

**Bulk Material Analysis**  
Method: 40 CFR 763, Subpart F, Appendix A (AHERA)

Client:  
Converse Environmental Consultants, SW  
731 Pilot Road, Suite H  
Las Vegas, NV 89119

Client ID: 1647  
Report Number: 262638  
Date Received: 01/03/97  
Date Analyzed: 01/03/97

P.O. Num:  
Job ID: Clark County General Services  
Site:

Sample Number	Lab Number	Total Asbestos	Total Fibrous Non-Asbestos	(Breakdown by type)
QC-1 Off-white fibrous tile with paint.	19700317	Non-Det.†	85-90%	Cellulose (45-50%) Fibrous Glass (35-40%)
QC-2 Grey cementitious material.	19700318	Non-Det.†	Trace†	Cellulose (Trace?)

*David Kahane*  
David Kahane, C.I.T.A., Laboratory Director, Hayward Laboratory

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FORENSIC ANALYTICAL

FAX TRANSMISSION  
Summary of Results  
Polarized Light Microscopy

To: Converse Environmental Consultants, SW

Date/Time: 1/3/97 10:57

Project : 96-4399501

Report #: 262587

Attn: John Watkins

Sender: Colleen

If you do not receive all pages, please contact Sender at (510) 887-8928

C: Chrysotile Cr: Crocidolite  
A: Amosite ND: No Asbestos detected  
P: Preliminary; subject to review

Sample Number	Asbestos %	Asb. Type(s)	Notes
BB-IWP-108QC	N/D		
BB-CP-121QC	N/D		

FAXED TO: 702-269-8353

A hard copy report will follow in the mail. Thank you.

Supervisor Approval: \_\_\_\_\_



# Converse Consultants Southwest, Inc.

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## POLARIZED LIGHT MICROSCOPY ANALYSIS REPORT

Client: CONVERSE CONSULTANTS SOUTHWEST  
731 PILOT ROAD, SUITE H  
LAS VEGAS, NEVADA 89119

Account: N/A

Contact: KEVIN BOTTUM

Project No: 98-43552-06 CCGS - BRIDGER BUILDING

Date Received: 5/19/98  
Date Analyzed: 5/19/98  
Date Prepared: 6/1/98  
Reported To: KEVIN BOTTUM  
Submitted By: CA/O.N.  
Report No.: 71-52629  
P.O. #: N/A

I certify that these results are accurate for the samples obtained and comply with accepted methods of analysis.

Lab Manager, Dan R. Dolk

Analyst, Dan R. Dolk

RESULTS: LAB SAMPLE # LAB DESCRIPTION LOCATION	CLIENT SAMPLE #	PERCENT & TYPE OF ASBESTOS	PERCENT & TYPE OF NON-ASBESTOS	LAYER* PH APPEARANCE* FINE
52629A White Plaster 10th Floor, Above Ceiling In Hallway At #1017	1501WP-A	None Detected	30% Binders 20% Aggregate 50% Gypsum	I NF
52529B Cream Plaster 10th Floor, Above Ceiling In Hallway At #1017	1501WP-B	None Detected	<1% Cellulose 30% Binders 40% Aggregate 30% Gypsum	I F
52630 White Insulation 10th Floor, West Fire Door From Elevator Lobby	1801FDI	None Detected	<1% Cellulose 5% Glass Fibers 10% Binders 20% Mineral Cleavages 70% Perlite	I F
52631 Tan Plaster 9th Floor, Ladies Restroom Above Ceiling	1802WP	None Detected	<1% Cellulose 30% Aggregate 35% Gypsum 20% Mineral Cleavages 15% Vermiculite	I F

Attached are the results of analysis of bulk samples submitted for asbestos identification. Converse Consultants MR, Inc. follows EPA Method EPA/600/R-93/116; July, 1993.

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\*I in the layer column above indicates an inhomogeneous sample; H indicates an homogenous sample.

\*F in the appearance column indicates a fibrous sample; NF indicates a nonfibrous sample.





# Converse Consultants

Over 50 Years of Dedication in Geotechnical Engineering and Environmental Sciences

## POLARIZED LIGHT MICROSCOPY ANALYSIS REPORT

Client: CONVERSE CONSULTANTS  
 731 PILOT ROAD, SUITE H  
 LAS VEGAS, NEVADA 89119

Account: N/A  
 Contact: JOHN WATKINS  
 Project No: 99-43324-07

Date Received: 07/22/99  
 Date Analyzed: 07/22/99  
 Date Prepared: 07/22/99  
 Reported To: JOHN WATKINS  
 Submitted By: COURIER  
 Report No.: 71-68499  
 P.O. #: N/A

BRIDGER BUILDING  
 225 BRIDGER AVENUE

I certify that these results are accurate for the samples obtained and comply with accepted methods of analysis.

  
 Lab Manager, Dan R. Dolk

  
 Analyst, Dan R. Dolk

RESULTS LAB SAMPLE # LAB DESCRIPTION LOCATION	CLIENT SAMPLE #	PERCENT & TYPE OF ASBESTOS	PERCENT & TYPE OF NON-ASBESTOS	LAYER I-H APPEARANCE F-NF
68499A White Plaster Penthouse on Roof Exterior	BB-EWP-101-A	None Detected	40% Binders 10% Aggregate 50% Mineral Cleavages	I NF
68499B Grey Plaster Penthouse on Roof Exterior	BB-EWP-101-B	None Detected	50% Binders 25% Aggregate 25% Mineral Cleavages	I NF
68500 Cream Plaster Penthouse on Roof Exterior	BB-EWP-102	None Detected	<1% Cellulose 55% Binders 20% Aggregate 25% Mineral Cleavages	I F
68501A White Skimcoat Penthouse on Roof Exterior	BB-EWP-103-A	None Detected	5% Cellulose 60% Binders 35% Mineral Cleavages	I F
68501B Grey Plaster Penthouse on Roof Exterior	BB-EWP-103-B	None Detected	5% Cellulose 25% Binders 40% Aggregate 30% Mineral Cleavages	I F
68502A Black Shingle East Portion	BB-PR-104-A	None Detected	25% Synthetic 25% Organic Binders 25% Aggregate 25% Mineral Cleavages	I F

RESULTS: LAB SAMPLE # LAB DESCRIPTION LOCATION	CLIENT SAMPLE #	PERCENT & TYPE OF ASBESTOS	PERCENT & TYPE OF NON-ASBESTOS	LAYER* I-H APPEARANCE* F-NF
68502B Black Mastic East Portion	BB-PR-104-B	None Detected	<1% Cellulose <1% Glass Fibers 65% Binders 35% Mineral Cleavages	I F
68502C Black Felt East Portion	BB-PR-104-C	None Detected	5% Cellulose 15% Glass Fibers 50% Binders 30% Mineral Cleavages	I F
68502D Yellow Insulation East Portion	BB-PR-104-D	None Detected	100% Organic Binders	H NF
68503A Black Shingle North Portion	BB-PR-105-A	None Detected	30% Synthetic 25% Organic Binders 25% Aggregate 20% Mineral Cleavages	I F
68503B Black Felt North Portion	BB-PR-105-B	None Detected	5% Cellulose 20% Glass Fibers 55% Organic Binders 20% Mineral Cleavages	I F
68503C Black Felt North Portion	BB-PR-105-C	None Detected	65% Cellulose 10% Glass Fibers 25% Organic Binders	I F
68503D Yellow Insulation North Portion	BB-PR-105-D	None Detected	100% Organic Binders	H NF
68504A Black Roofing West Portion	BB-PR-106-A	None Detected	30% Synthetic 30% Organic Binders 25% Aggregate 15% Mineral Cleavages	I F
68504B Black Roofing West Portion	BB-PR-106-B	None Detected	45% Cellulose 15% Glass Fibers 25% Organic Binders 15% Mineral Cleavages	I F
68504C Black Roofing West Portion	BB-PR-106-C	None Detected	65% Cellulose 10% Glass Fibers 25% Organic Binders	I F
68504D Yellow Insulation West Portion	BB-PR-106-D	None Detected	100% Organic Binders	H NF
68505A Black Roofing West Edge	BB-RF-107-A	None Detected	30% Synthetic 25% Organic Binders 25% Aggregate 20% Mineral Cleavages	I F

RESULTS: LAB SAMPLE # LAB DESCRIPTION LOCATION	CLIENT SAMPLE #	PERCENT & TYPE OF ASBESTOS	PERCENT & TYPE OF NON-ASBESTOS	LAYER # I-H APPEARANCE F-NF
68505B Black Roofing West Edge	BB-RF-107-B	None Detected	<1% Cellulose 5% Glass Fibers 10% Synthetic 55% Organic Binders 30% Mineral Cleavages	I F
68505C Black Roofing West Edge	BB-RF-107-C	None Detected	30% Synthetic 50% Organic Binders 20% Mineral Cleavages	I F
68505D Black Roofing West Edge	BB-RF-107-D	None Detected	5% Cellulose 5% Synthetic 60% Organic Binders 30% Mineral Cleavages	I F
68505E Black Roofing West Edge	BB-RF-107-E	None Detected	10% Glass Fibers 50% Organic Binders 40% Mineral Cleavages	I F
68505F Black Roofing West Edge	BB-RF-107-F	None Detected	10% Cellulose 85% Organic Binders 5% Mineral Cleavages	I F
68505G Brown Insulation West Edge	BB-RF-107-G	None Detected	70% Wood Fibers 10% Organic Binders 20% Perlite	I F
68506A Black Roofing North Edge	BB-RF-108-A	None Detected	30% Synthetic 30% Organic Binders 20% Aggregate 20% Mineral Cleavages	I F
68506B Black Roofing North Edge	BB-RF-108-B	None Detected	5% Cellulose 5% Glass Fibers 60% Organic Binders 30% Mineral Cleavages	I F
68506C Black Roofing North Edge	BB-RF-108-C	None Detected	35% Synthetic 45% Organic Binders 20% Mineral Cleavages	I F
68506D Black Roofing North Edge	BB-RF-108-D	None Detected	35% Synthetic 40% Organic Binders 25% Mineral Cleavages	I F
68506E Black Roofing North Edge	BB-RF-108-E	None Detected	5% Cellulose 55% Organic Binders 40% Mineral Cleavages	I F
68506F Black Roofing North Edge	BB-RF-108-F	None Detected	5% Cellulose 20% Synthetic 40% Organic Binders 35% Mineral Cleavages	I F
68506G Black Roofing North Edge	BB-RF-108-G	None Detected	20% Glass Fibers 50% Organic Binders 30% Mineral Cleavages	I F

RESULTS: LAB SAMPLE # LAB DESCRIPTION LOCATION	CLIENT SAMPLE #	PERCENT & TYPE OF ASBESTOS	PERCENT & TYPE OF NON-ASBESTOS	LAYER* FH APPEARANCE* F-NF
68506H Black Roofing North Edge	BB-RF-108-H	None Detected	5% Cellulose 5% Glass Fibers 60% Organic Binders 30% Mineral Cleavages	I F
68506I Black Roofing North Edge	BB-RF-108-I	None Detected	5% Cellulose 10% Glass Fibers 60% Organic Binders 25% Mineral Cleavages	I F
68506J Brown Insulation North Edge	BB-RF-108-J	None Detected	55% Cellulose 20% Organic Binders 25% Perlite	I F
68507A Black Roofing East Edge	BB-RF-109-A	None Detected	40% Synthetic 30% Organic Binders 30% Mineral Cleavages	I F
68507B Black Roofing East Edge	BB-RF-109-B	None Detected	15% Synthetic 40% Organic Binders 45% Mineral Cleavages	I F
68507C Black Roofing East Edge	BB-RF-109-C	None Detected	50% Synthetic 30% Organic Binders 20% Mineral Cleavages	I F
68507D Black Roofing East Edge	BB-RF-109-D	None Detected	10% Cellulose 50% Organic Binders 40% Mineral Cleavages	I F
68507E Black Roofing East Edge	BB-RF-109-E	None Detected	50% Synthetic 35% Organic Binders 15% Mineral Cleavages	I F
68507F Black Roofing East Edge	BB-RF-109-F	None Detected	40% Synthetic 40% Organic Binders 20% Mineral Cleavages	I F
68507G Black Roofing East Edge	BB-RF-109-G	None Detected	40% Synthetic 30% Organic Binders 30% Mineral Cleavages	I F
68507H Black Roofing East Edge	BB-RF-109-H	None Detected	35% Synthetic 35% Organic Binders 30% Mineral Cleavages	I F
68507I Black Roofing East Edge	BB-RF-109-I	None Detected	5% Cellulose 55% Organic Binders 40% Mineral Cleavages	I F
68507J Black Roofing East Edge	BB-RF-109-J	None Detected	<1% Cellulose 25% Glass Fibers 30% Organic Binders 45% Mineral Cleavages	I F
68507K Black Roofing East Edge	BB-RF-109-K	None Detected	55% Cellulose 25% Organic Binders 20% Perlite	I F

RESULTS: LAB SAMPLE # LAB DESCRIPTION LOCATION	CLIENT SAMPLE #	PERCENT & TYPE OF ASBESTOS	PERCENT & TYPE OF NON-ASBESTOS	LAYER* I-H APPEARANCE* F-NF
68508 Black Roof Mastic Around Pipe Protrusion	BB-RM-110	None Detected	50% Organic Binders 50% Mineral Cleavages	I NF
68509 Black Roof Mastic Around Pipe Protrusion	BB-RM-111	None Detected	20% Synthetic 50% Organic Binders 30% Mineral Cleavages	I F
68510 Blue Paint East Stairwell, 10th Floor	BB-EP-112	None Detected	2% Cellulose 25% Carbonate Binders 3% Mineral Cleavages 70% Pigment	I F
68511 Blue Paint 10th Floor	BB-EP-113	None Detected	5% Cellulose 10% Carbonate Binders 10% Mineral Cleavages 75% Pigment	I F
68512 Blue Paint and Concrete Parking Garage Floor	BB-EP-114	3-5% Chrysotile	5% Cellulose 25% Mineral Cleavages 65% Pigment	I F
68513 Blue Paint and Concrete Parking Garage Floor	BB-EP-115	5-10% Chrysotile	25% Mineral Cleavages 65% Pigment	I F
68514 Blue Paint 9th Floor	BB-EP-116	None Detected	5% Cellulose 15% Mineral Cleavages 80% Pigment	I F

Attached are the results of analysis of bulk samples submitted for asbestos identification. Converse Consultants MR, Inc. follows EPA Method EPA/600/R-93/116; July, 1993.

Each sample was initially examined under a stereoscopic microscope at a magnification of 10x to 60x. Fibrous material was examined for morphology and content. Portions of each sample were immersed in a fluid with a known refractive index. The sample was examined under polarized light using a Nikon Labophot microscope with a McCrone Dispersion Staining objective under 100X magnification. Optical characteristics of the fibrous material were examined to determine the mineralogy of the fiber. The observed optical characteristics include angles of extinction, signs of elongation and dispersion staining colors. Asbestos fiber content is estimated by optically comparing the quantity of asbestos material and non-asbestos material to establish estimated percentages.

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# Converse Consultants

Over 50 Years of Dedication in Geotechnical Engineering and Environmental Sciences

## POLARIZED LIGHT MICROSCOPY ANALYSIS REPORT

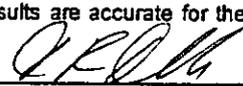
Client: CONVERSE CONSULTANTS  
 731 PILOT ROAD, SUITE H  
 LAS VEGAS, NEVADA 89119

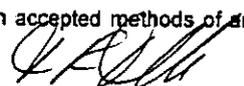
Account: N/A  
 Contact: JOHN WATKINS  
 Project No: 99-43324-07

Date Received: 07/23/99  
 Date Analyzed: 07/24/99  
 Date Prepared: 07/26/99  
 Reported To: JOHN WATKINS  
 Submitted By: COURIER  
 Report No.: 71-68603  
 P.O. #: N/A

BRIDGER BUILDING  
 225 BRIDGER AVENUE

I certify that these results are accurate for the samples obtained and comply with accepted methods of analysis.

  
 Lab Manager, Dan R. Dolk

  
 Analyst, Dan R. Dolk

RESULTS: LAB SAMPLE # LAB DESCRIPTION LOCATION	CLIENT SAMPLE #	PERCENT & TYPE OF ASBESTOS	PERCENT & TYPE OF NON-ASBESTOS	LAYER FH APPEARANCE* F:NF
68603A Grey Cementitious West High Block Exterior Wall on Bridger Building	BB-EWP-117-A	None Detected	30% Binders 30% Aggregate 40% Mineral Cleavages	I NF
68603B White Paint West High Block Exterior Wall on Bridger Building	BB-EWP-117-B	>1-3% Chrysotile	20% Carbonate Binders 20% Mineral Cleavages 57% Pigment	I F
68604A White Paint West High Block Exterior Wall on Bridger Building	BB-EWP-118-A	None Detected	40% Carbonate Binders 20% Mineral Cleavages 40% Pigment	I NF
68604B Grey Cementitious West High Block Exterior Wall on Bridger Building	BB-EWP-118-B	None Detected	30% Carbonate Binders 30% Aggregate 40% Mineral Cleavages	I NF
68605A White Paint West High Block Exterior Wall on Bridger Building	BB-EWP-119-A	<1% Chrysotile	<1% Cellulose 40% Binders 20% Mineral Cleavages 40% Pigment	I F

RESULTS- LAB SAMPLE # LAB DESCRIPTION LOCATION	CLIENT SAMPLE #	PERCENT & TYPE OF ASBESTOS	PERCENT & TYPE OF NON-ASBESTOS	LAYER* I-H APPEARANCE* F-NF
68605B Grey Cementitious West High Block Exterior Wall on Bridger Building	BB-EWP-119-B	None Detected	40% Binders 30% Aggregate 30% Mineral Cleavages	I NF
68606A White Paint West High Block Exterior Wall on Bridger Building	BB-EWP-120-A	<1% Chrysotile	<1% Cellulose 20% Carbonate Binders 20% Mineral Cleavages 60% Pigment	I F
68606B Grey Cementitious West High Block Exterior Wall on Bridger Building	BB-EWP-120-B	None Detected	40% Binders 30% Aggregate 30% Mineral Cleavages	I NF
68607A White Paint West High Block Exterior Wall on Bridger Building	BB-EWP-121-A	None Detected	25% Carbonate Binders 25% Mineral Cleavages 50% Pigment	I NF
68607B Grey Cementitious West High Block Exterior Wall on Bridger Building	BB-EWP-121-B	<1% Chrysotile	40% Binders 30% Aggregate 30% Mineral Cleavages	I F

Attached are the results of analysis of bulk samples submitted for asbestos identification. Converse Consultants MR, Inc. follows EPA Method EPA/600/R-93/116; July, 1993.

Each sample was initially examined under a stereoscopic microscope at a magnification of 10x to 60x. Fibrous material was examined for morphology and content. Portions of each sample were immersed in a fluid with a known refractive index. The sample was examined under polarized light using a Nikon Labophot microscope with a McCrone Dispersion Staining objective under 100X magnification. Optical characteristics of the fibrous material were examined to determine the mineralogy of the fiber. The observed optical characteristics include angles of extinction, signs of elongation and dispersion staining colors. Asbestos fiber content is estimated by optically comparing the quantity of asbestos material and non-asbestos material to establish estimated percentages.

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\*F in the appearance column indicates a fibrous sample; NF indicates a nonfibrous sample.



# Converse Consultants

Over 50 Years of Dedication in Geotechnical Engineering and Environmental Sciences

## POLARIZED LIGHT MICROSCOPY ANALYSIS REPORT

Client: CONVERSE CONSULTANTS  
731 PILOT ROAD, SUITE H  
LAS VEGAS, NEVADA 89119

Account: N/A  
Contact: JOHN WATKINS  
Project No: 99-43324-07

Date Received: 07/26/99

Date Analyzed: 07/26/99

Date Prepared: 07/26/99

Reported To: JOHN WATKINS

Submitted By: COURIER

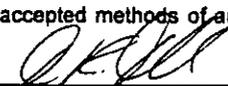
Report No.: 71-68638

P.O. #: N/A

BRIDGER BUILDING  
225 BRIDGER AVENUE

I certify that these results are accurate for the samples obtained and comply with accepted methods of analysis.

  
Lab Manager, Dan R. Dolk

  
Analyst, Dan R. Dolk

RESULTS: LAB SAMPLE # LAB DESCRIPTION LOCATION	CLIENT SAMPLE #	PERCENT & TYPE OF ASBESTOS	PERCENT & TYPE OF NON-ASBESTOS	LAYER FH APPEARANCE F-NF
68638 White/Blue Paint 8th Floor, Stairwell Exterior	BB-PB/C-117	None Detected	25% Carbonate Binders 5% Mineral Cleavages 70% Pigment	I NF
68639A White Skimcoat 8th Floor, Stairwell Wall	BB-WP-118-A	None Detected	30% Binders 60% Gypsum 10% Mineral Cleavages	I NF
68639B Cream Plaster 8th Floor, Stairwell Wall	BB-WP-118-B	None Detected	65% Gypsum 15% Mineral Cleavages 20% Vermiculite	I NF
68640A Yellow Paint 8th Floor, Hallway Near Elevator	BB-DW/JC-119-A	None Detected	20% Carbonate Binders 5% Mineral Cleavages 75% Pigment	I NF
68640B Cream Texture 8th Floor, Hallway Near Elevator	BB-DW/JC-119-B	<1% Chrysotile	<1% Cellulose 75% Carbonate Binders 25% Mineral Cleavages	I F
68640C White Skimcoat 8th Floor, Hallway Near Elevator	BB-DW/JC-119-C	None Detected	40% Binders 5% Aggregate 35% Gypsum 20% Mineral Cleavages	I NF
68641A White Joint Compound 7th Floor, East Central	BB-DW/JC-120-A	None Detected	70% Carbonate Binders 30% Mineral Cleavages	I NF

RESULTS: LAB SAMPLE # LAB DESCRIPTION LOCATION	CLIENT SAMPLE #	PERCENT & TYPE OF ASBESTOS	PERCENT & TYPE OF NON-ASBESTOS	LAYER I-H APPEARANCE F-NF
68641B White Drywall 7th Floor, East Central	BB-DW/JC-120-B	None Detected	10% Cellulose 75% Gypsum 15% Mineral Cleavages	I F
68642 Blue/White Paint 7th Floor, Stairwell Exterior	BB-PB-121	<1% Chrysotile	25% Carbonate Binders 5% Mineral Cleavages 70% Pigment	I F
68643A Blue Paint 6th Floor, South East	BB-DW/JC-122-A	None Detected	5% Cellulose 10% Carbonate Binders 10% Aggregate 5% Mineral Cleavages 70% Pigment	I F
68643B Cream Texture 6th Floor, South East	BB-DW/JC-122-B	3-5% Chrysotile	70% Carbonate Binders 25% Mineral Cleavages	I F
68644 White Skimcoat 6th Floor, Next to Elevator	BB-IWP-123	None Detected	40% Binders 10% Aggregate 30% Gypsum 20% Mineral Cleavages	I NF
68645 Blue Paint 6th Floor, Stairwell Exterior	BB-PB/C-124	None Detected	30% Carbonate Binders 10% Mineral Cleavages 60% Pigment	I NF
68646A Cream Joint Compound 5th Floor, Hall	BB-DW/JC-125-A	3-5% Chrysotile	60% Carbonate Binders 35% Mineral Cleavages	I F
68646B White Drywall 5th Floor, Hall	BB-DW/JC-125-B	None Detected	10% Cellulose 20% Carbonate Binders 60% Gypsum 10% Mineral Cleavages	I F
68647A Light Cream Skimcoat 5th Floor, Near Elevator	BB-IWP-126-A	None Detected	40% Binders 45% Gypsum 15% Mineral Cleavages	I NF
68647B Dark Cream Plaster 5th Floor, Near Elevator	BB-IWP-126-B	None Detected	30% Binders 20% Aggregate 30% Gypsum 20% Vermiculite	I NF
68648 Blue Paint 5th Floor, Stairwell Exterior	BB-BP-127	None Detected	30% Carbonate Binders 10% Mineral Cleavages 60% Pigment	I NF
68649 Grey Plaster 3rd Floor, Garage	BB-CP-128	<1% Chrysotile	<1% Cellulose 40% Binders 30% Aggregate 30% Mineral Cleavages	I F
68650 Grey Plaster 3rd Floor, Garage	BB-CP-129	None Detected	30% Binders 40% Aggregate 30% Mineral Cleavages	I NF

RESULTS: LAB SAMPLE # LAB DESCRIPTION LOCATION	CLIENT SAMPLE #	PERCENT & TYPE OF ASBESTOS	PERCENT & TYPE OF NON-ASBESTOS	LAYER* I-H APPEARANCE* F-NF
68651 Grey Plaster 3rd Floor, Garage	BB-CP-130	<1% Chrysotile	30% Binders 40% Aggregate 30% Mineral Cleavages	I F
68652 Grey Plaster 3rd Floor, Garage	BB-WP-131	None Detected	<1% Cellulose 50% Binders 25% Aggregate 25% Mineral Cleavages	I F
68653 Grey Plaster 3rd Floor, Garage	BB-WP-132	None Detected	<1% Cellulose 40% Binders 20% Aggregate 40% Mineral Cleavages	I F
68654 Grey Plaster 3rd Floor, Garage	BB-WP-133	<1% Chrysotile	70% Binders 10% Aggregate 20% Mineral Cleavages	I F
68655A Tan Paint 3rd Floor, Garage	BB-WP-134-A	None Detected	30% Carbonate Binders 10% Mineral Cleavages 60% Pigment	I NF
68655B Grey Plaster 3rd Floor, Garage	BB-WP-134-B	None Detected	40% Binders 20% Aggregate 40% Mineral Cleavages	I NF
68656 Grey Plaster 3rd Floor, Garage	BB-WP-135	<1% Chrysotile	<1% Cellulose 30% Binders 45% Aggregate 25% Mineral Cleavages	I F
68657 Dark Grey Plaster South Exterior of Building	BB-C-136	None Detected	<1% Cellulose 50% Binders 20% Aggregate 30% Mineral Cleavages	I F

Attached are the results of analysis of bulk samples submitted for asbestos identification. Converse Consultants MR, Inc. follows EPA Method EPA/600/R-93/116; July, 1993.

Each sample was initially examined under a stereoscopic microscope at a magnification of 10x to 60x. Fibrous material was examined for morphology and content. Portions of each sample were immersed in a fluid with a known refractive index. The sample was examined under polarized light using a Nikon Labophot microscope with a McCrone Dispersion Staining objective under 100X magnification. Optical characteristics of the fibrous material were examined to determine the mineralogy of the fiber. The observed optical characteristics include angles of extinction, signs of elongation and dispersion staining colors. Asbestos fiber content is estimated by optically comparing the quantity of asbestos material and non-asbestos material to establish estimated percentages.

Bulk sampling may not have been performed by Converse Consultants personnel. No warranty is made as to the acceptability of sampling strategies.

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# Converse Consultants

Over 50 Years of Dedication in Geotechnical Engineering and Environmental Sciences

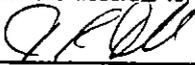
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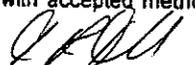
Client: CONVERSE CONSULTANTS  
731 PILOT ROAD, SUITE H  
LAS VEGAS, NEVADA 89119

Account: N/A  
Contact: JOHN WATKINS  
Project No: 99-43324-07 BRIDGER BUILDING  
225 BRIDGER AVENUE

Date Received: 8/2/99  
Data Analyzed: 8/2/99  
Date Reported: 8/3/99  
Reported To: JOHN WATKINS  
Submitted By: FED EX  
Report No.: 71-69109  
P.O. #: N/A

I certify that these results are accurate for the samples obtained and comply with accepted methods of analysis.

  
Lab Manager, Dan R. Doik

  
Analyst, Dan R. Doik

RESULTS: LAB SAMPLE # LOCATION DESCRIPTION	CLIENT SAMPLE #	PERCENT & TYPE OF ASBESTOS	PERCENT & TYPE OF NON-ASBESTOS	LAYER* I-H	APPEAR* F-NF
69109	BB-EWP-117	1.4% Chrysotile	N/A	N/A	N/A

As these results represent a point count this report supercedes the previous analysis results.

Attached are the results of analysis of bulk samples submitted for asbestos identification. Converse Consultants MR, Inc. follows EPA Method EPA/600/R-93/116; July, 1993.

Each sample was initially examined under a stereoscopic microscope at a magnification of 10x to 60x. Fibrous material was examined for morphology and content. Portions of each sample were immersed in a fluid with a known refractive index. The sample was examined under polarized light using a Nikon Labophot microscope with a McCrone Dispersion Staining objective under 100X magnification. Optical characteristics of the fibrous material were examined to determine the mineralogy of the fiber. The observed optical characteristics include angles of extinction, signs of elongation and dispersion staining colors. Asbestos fiber content is established by point counting.

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Over 50 Years of Dedication in Geotechnical Engineering and Environmental Sciences

## POLARIZED LIGHT MICROSCOPY ANALYSIS REPORT

Client: **CONVERSE CONSULTANTS**  
**731 PILOT ROAD, SUITE H**  
**LAS VEGAS, NEVADA 89119**

Account: **N/A**  
 Contact: **JOHN WATKINS**  
 Project No: **99-43324-07**

**BRIDGER BUILDING**  
**225 BRIDGER AVENUE**

Date Received: **8/5/99**  
 Date Analyzed: **8/5/99**  
 Date Prepared: **8/6/99**  
 Reported To: **JOHN WATKINS**  
 Submitted By: **FED EX**  
 Report No.: **71-69172**  
 P.O. #: **N/A**

I certify that these results are accurate for the samples obtained and comply with accepted methods of analysis.

Lab Manager, Dan R. Dolk

Analyst, Dan R. Dolk

RESULTS: LAB SAMPLE # LAB DESCRIPTION LOCATION	CLIENT SAMPLE #	PERCENT & TYPE OF ASBESTOS	PERCENT & TYPE OF NON-ASBESTOS	LAYER* FH APPEARANCE* F-NF
69172 Blue/White Paint 4th Level Garage, S.W. Panel	BB-EP-137	None Detected	<1% Cellulose 40% Mineral Cleavages 60% Pigment	I F
69173 Blue Paint 4th Level Garage, S.W. Panel	BB-EP-138	None Detected	<1% Cellulose 20% Mineral Cleavages 80% Pigment	I F
69174 Blue Paint 4th Level Garage, S.W. Panel	BB-EP-139	None Detected	<1% Cellulose 20% Mineral Cleavages 80% Pigment	I F
69175 Cream Paint 3rd Panel From East End	BB-EP-140	<1% Chrysotile	<1% Cellulose 15% Mineral Cleavages 85% Pigment	I F
69176 Cream Paint 6th Panel From East End	BB-EP-141	<1% Chrysotile	30% Mineral Cleavages 70% Pigment	I F
69177 Cream Paint 9th Panel From East End	BB-EP-142	<1% Chrysotile	25% Mineral Cleavages 75% Pigment	I F
69178 Cream Paint 11th Panel From East End	BB-EP-143	None Detected	15% Mineral Cleavages 85% Pigment	I NF

RESULTS LAB SAMPLE # LAB DESCRIPTION LOCATION	CLIENT SAMPLE #	PERCENT & TYPE OF ASBESTOS	PERCENT & TYPE OF NON-ASBESTOS	LAYER* I-H APPEARANCE* F-NF
69179 Cream Paint 14th Panel From East End	BB-EP-144	None Detected	<1% Cellulose 20% Mineral Cleavages 80% Pigment	I F
69180 Cream Paint 17th Panel From East End	BB-EP-145	None Detected	<1% Cellulose 15% Mineral Cleavages 85% Pigment	I F
69181 Blue Paint Southwest Panel, East End	BB-EP-146	None Detected	<1% Cellulose 20% Mineral Cleavages 80% Pigment	I F
69182 Blue Paint Southwest Panel	BB-EP-147	<1% Chrysotile	<1% Cellulose 15% Mineral Cleavages 85% Pigment	I F
69183 Blue Paint Southwest Panel	BB-EP-148	None Detected	<1% Cellulose 15% Mineral Cleavages 85% Pigment	I F
69184 Cream Paint Northwest Panel From West	BB-EP-149	None Detected	20% Mineral Cleavages 80% Pigment	I NF
69185 Cream Paint 5th Panel From West	BB-EP-150	None Detected	<1% Cellulose 20% Mineral Cleavages 80% Pigment	I F
69186 Cream Paint 11th Panel From West	BB-EP-151	<1% Chrysotile	25% Mineral Cleavages 75% Pigment	I F
69187 Cream Paint 16th Panel From West	BB-EP-152	<1% Chrysotile	15% Mineral Cleavages 85% Pigment	I F
69188 Cream Paint 21st Panel From West	BB-EP-153	<1% Chrysotile	30% Mineral Cleavages 70% Pigment	I F
69189 Cream Paint 27th Panel From West	BB-EP-154	None Detected	<1% Cellulose 20% Mineral Cleavages 80% Pigment	I F
69190 Blue/Cream Paint 10th Floor Stairwell	BB-EP-155	>1-3% Chrysotile	12% Mineral Cleavages 85% Pigment	I F
69191 Blue/Cream Paint 9th Floor Stairwell	BB-EP-155	<1% Chrysotile	25% Mineral Cleavages 75% Pigment	I F
69192A Blue Paint 8th Floor Stairwell	BB-EP-157A	None Detected	<1% Cellulose 30% Mineral Cleavages 70% Pigment	I F

RESULTS: LAB SAMPLE # LAB DESCRIPTION LOCATION	CLIENT SAMPLE #	PERCENT & TYPE OF ASBESTOS	PERCENT & TYPE OF NON-ASBESTOS	LAYER* I-H APPEARANCE* F-NF
69192B White Surfacing 8th Floor Stairwell	BB-EP-157B	None Detected	40% Binders 5% Aggregate 55% Mineral Cleavages	I NF
69193 Blue Paint 7th Floor Stairwell	BB-EP-158	<1% Chrysotile	20% Mineral Cleavages 80% Pigment	I F
69194A Blue Paint 6th Floor Stairwell	BB-EP-159A	None Detected	<1% Cellulose 20% Mineral Cleavages 80% Pigment	I F
69194B White Paint 6th Floor Stairwell	BB-EP-159B	<1% Chrysotile	<1% Cellulose 30% Mineral Cleavages 70% Pigment	I F
69195 Blue Paint 5th Floor Stairwell	BB-EP-160	None Detected	30% Mineral Cleavages 70% Pigment	I NF

Attached are the results of analysis of bulk samples submitted for asbestos identification. Converse Consultants MR, Inc. follows EPA Method EPA/600/R-93/116; July, 1993.

Each sample was initially examined under a stereoscopic microscope at a magnification of 10x to 60x. Fibrous material was examined for morphology and content. Portions of each sample were immersed in a fluid with a known refractive index. The sample was examined under polarized light using a Nikon Labophot microscope with a McCrone Dispersion Staining objective under 100X magnification. Optical characteristics of the fibrous material were examined to determine the mineralogy of the fiber. The observed optical characteristics include angles of extinction, signs of elongation and dispersion staining colors. Asbestos fiber content is estimated by optically comparing the quantity of asbestos material and non-asbestos material to establish estimated percentages.

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\*I in the layer column above indicates an inhomogeneous sample; H indicates an homogenous sample.

\*F in the appearance column indicates a fibrous sample; NF indicates a nonfibrous sample.



# Converse Consultants

Over 50 Years of Dedication in Geotechnical Engineering and Environmental Sciences

## POLARIZED LIGHT MICROSCOPY ANALYSIS REPORT

Client: **CONVERSE CONSULTANTS**  
**731 PILOT ROAD, SUITE H**  
**LAS VEGAS, NEVADA 89119**

Account: **N/A**

Contact: **JOHN WATKINS**

Project No: **99-43324-07**

**BRIDGER**  
**225 BRIDGER AVENUE**

Date Received: **8/9/99**  
Date Analyzed: **8/10/99**  
Date Prepared: **8/10/99**  
Reported To: **JOHN WATKINS**  
Submitted By: **FED EX**  
Report No.: **71-69296**  
P.O. #: **N/A**

I certify that these results are accurate for the samples obtained and comply with accepted methods of analysis.

Lab Manager, Dan R. Dolk

Analyst, Dan R. Dolk

RESULTS: LAB SAMPLE # LAB DESCRIPTION LOCATION	CLIENT SAMPLE #	PERCENT & TYPE OF ASBESTOS	PERCENT & TYPE OF NON-ASBESTOS	LAYER I-F APPEARANCE* F-NF
69296A White Paint West Wall, North End	BB-EP-161A	None Detected	<1% Cellulose 55% Carbonate Binders 45% Pigment	I F
69296B Grey Plaster West Wall, North End	BB-EP-161B	None Detected	<1% Cellulose 75% Carbonate Binders 25% Mineral Cleavages	I F
69297A White Paint West Wall, North End	BB-EP-162A	None Detected	50% Carbonate Binders 5% Mineral Cleavages 45% Pigment	I NF
69297B Grey Plaster West Wall, North End	BB-EP-162B	None Detected	80% Carbonate Binders 20% Mineral Cleavages	I NF
69298A White Paint West Wall, North End	BB-EP-163A	None Detected	50% Carbonate Binders 5% Mineral Cleavages 45% Pigment	I NF
69298B Grey Plaster West Wall, North End	BB-EP-163B	None Detected	90% Carbonate Binders 10% Mineral Cleavages	I NF
69299A White Paint West Wall, South End	BB-EP-164A	None Detected	50% Carbonate Binders 5% Mineral Cleavages 45% Pigment	I NF

RESULTS: LAB SAMPLE # LAB DESCRIPTION LOCATION	CLIENT SAMPLE #	PERCENT & TYPE OF ASBESTOS	PERCENT & TYPE OF NON-ASBESTOS	LAYER* I-H APPEARANCE* F-NF
69299B Grey Plaster West Wall, South End	BB-EP-164B	None Detected	<1% Cellulose 85% Carbonate Binders 15% Mineral Cleavages	I F
69300A White Paint West Wall, South End	BB-EP-165A	None Detected	<1% Cellulose 50% Carbonate Binders 5% Mineral Cleavages 45% Pigment	I F
69300B Grey Plaster West Wall, South End	BB-EP-165B	None Detected	85% Carbonate Binders 15% Mineral Cleavages	I NF
69301A White Paint West Wall, South End	BB-EP-166A	None Detected	50% Carbonate Binders 5% Mineral Cleavages 45% Pigment	I NF
69301B Grey Plaster West Wall, South End	BB-EP-166B	None Detected	<1% Cellulose 85% Carbonate Binders 15% Mineral Cleavages	I F

Attached are the results of analysis of bulk samples submitted for asbestos identification. Converse Consultants MR, Inc. follows EPA Method EPA/600/R-93/116; July, 1993.

Each sample was initially examined under a stereoscopic microscope at a magnification of 10x to 60x. Fibrous material was examined for morphology and content. Portions of each sample were immersed in a fluid with a known refractive index. The sample was examined under polarized light using a Nikon Labophot microscope with a McCrone Dispersion Staining objective under 100X magnification. Optical characteristics of the fibrous material were examined to determine the mineralogy of the fiber. The observed optical characteristics include angles of extinction, signs of elongation and dispersion staining colors. Asbestos fiber content is estimated by optically comparing the quantity of asbestos material and non-asbestos material to establish estimated percentages.

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\*I in the layer column above indicates an inhomogeneous sample; H indicates an homogenous sample.  
\*F in the appearance column indicates a fibrous sample; NF indicates a nonfibrous sample.



# Converse Consultants

Over 50 Years of Dedication in Geotechnical Engineering and Environmental Sciences

## POLARIZED LIGHT MICROSCOPY ANALYSIS REPORT

**Client:** CONVERSE CONSULTANTS  
731 PILOT ROAD, SUITE H  
LAS VEGAS, NEVADA 89119

**Account:** N/A  
**Contact:** JOHN WATKINS  
**Project No:** 99-43324-07      **CENTENNIAL**  
310 3RD STREET

**Date Received:** 8/5/99  
**Date Analyzed:** 8/6/99  
**Date Prepared:** 8/6/99  
**Reported To:** JOHN WATKINS  
**Submitted By:** FED EX  
**Report No.:** 71-69196  
**P.O. #:** N/A

I certify that these results are accurate for the samples obtained and comply with accepted methods of analysis.

  
\_\_\_\_\_  
Lab Manager, Dan R. Dolk

  
\_\_\_\_\_  
Analyst, Dan R. Dolk

RESULTS: LAB SAMPLE # LAB DESCRIPTION LOCATION	CLIENT SAMPLE #	PERCENT & TYPE OF ASBESTOS	PERCENT & TYPE OF NON-ASBESTOS	LAYER* I-H APPEARANCE* F-NF
69196 Grey Ceiling Tile 1st Floor Central	310-CT-101	None Detected	20% Cellulose 70% Mineral Wool 5% Mineral Cleavages 5% Paint	I F
69197 Grey Ceiling Tile 1st Floor Central	310-CT-102	None Detected	15% Cellulose 75% Mineral Wool 5% Mineral Cleavages 5% Paint	I F
69198 Grey Ceiling Tile 1st Floor Central	310-CT-103	None Detected	20% Cellulose 70% Mineral Wool 5% Mineral Cleavages 5% Paint	I F
69199 Cream Fireproofing 1st Floor, East Side	310-SFP-104	5-10% Chrysotile	35% Gypsum 20% Mineral Cleavages 35% Vermiculite	I F
69200 Cream Fireproofing 1st Floor, Central	310-SFP-105	3-5% Chrysotile	35% Gypsum 20% Mineral Cleavages 40% Vermiculite	I F
69201 Cream Fireproofing 1st Floor, West Side	310-SFP-106	5-10% Chrysotile	35% Gypsum 20% Mineral Cleavages 35% Vermiculite	I F
69202A Grey Vinyl Floor Tile 1st Floor Records	310-FT-107A	None Detected	30% Carbonate Binders 70% Organic Binders	I NF

RESULTS: LAB SAMPLE # LAB DESCRIPTION LOCATION	CLIENT SAMPLE #	PERCENT & TYPE OF ASBESTOS	PERCENT & TYPE OF NON-ASBESTOS	LAYER* FH APPEARANCE* F,NF
69202B Black Flooring 1st Floor Records	310-FT-107B	None Detected	50% Carbonate Binders 50% Organic Binders	I NF
69203A Cream Joint Compound 1st Floor Records	310-DW/JC-108A	None Detected	70% Carbonate Binders 30% Mineral Cleavages	I NF
69203B White Drywall 1st Floor Records	310-DW/JC-108B	None Detected	10% Cellulose <1% Glass Fibers 70% Gypsum <1% Mica 20% Mineral Cleavages	I F
69204A Cream Joint Compound 1st Floor Records	310-DW/JC-109A	None Detected	75% Carbonate Binders 25% Mineral Cleavages	I NF
69204B White Drywall 1st Floor Records	310-DW/JC-109B	None Detected	10% Cellulose <1% Glass Fibers 60% Gypsum 30% Mineral Cleavages	I F
69205A Cream Joint Compound 1st Floor Records	310-DW/JC-110A	<1% Chrysotile	65% Carbonate Binders 35% Mineral Cleavages	I F
69205B White Drywall 1st Floor Records	310-DW/JC-110B	None Detected	10% Cellulose <1% Glass Fibers 65% Gypsum 5% Mica 20% Mineral Cleavages	I F
69206 Grey Ceiling Tile 3rd Floor, East End	310-CT-111	None Detected	35% Cellulose 40% Mineral Wool 5% Paint 20% Perlite	I F
69207 Grey Ceiling Tile 3rd Floor, Central	310-CT-112	None Detected	30% Cellulose 55% Mineral Wool 5% Paint 10% Perlite	I F
69208 Grey Ceiling Tile 3rd Floor, West End	310-CT-113	None Detected	25% Cellulose 60% Mineral Wool <1% Mineral Cleavages 5% Paint 10% Perlite	I F
69209A Cream Joint Compound 3rd Floor, East End	310-DW/JC-114A	None Detected	85% Carbonate Binders 15% Mineral Cleavages	I NF
69209B White Drywall 3rd Floor, East End	310-DW/JC-114B	None Detected	5% Cellulose <1% Glass Fibers 70% Gypsum 25% Mineral Cleavages	I F

RESULTS: LAB SAMPLE # LAB DESCRIPTION LOCATION	CLIENT SAMPLE #	PERCENT & TYPE OF ASBESTOS	PERCENT & TYPE OF NON-ASBESTOS	LAYER* FH APPEARANCE* F-NF
69210A Cream Texture 3rd Floor, Central	310-DW/JC-115A	None Detected	<1% Cellulose 85% Carbonate Binders 15% Mineral Cleavages	I F
69210B White Drywall 3rd Floor, Central	310-DW/JC-115B	None Detected	5% Cellulose <1% Glass Fibers 60% Gypsum 35% Mineral Cleavages	I F
69211A Cream Texture/J.C. 3rd Floor, West End	310-DW/JC-116A	None Detected	<1% Glass Fibers 70% Carbonate Binders 20% Mineral Cleavages 10% Paint	I F
69211B White Drywall 3rd Floor, West End	310-DW/JC-116B	None Detected	10% Cellulose <1% Glass Fibers 70% Gypsum 20% Mineral Cleavages	I F
69212A Light Grey Skimcoat 3rd Floor, East End Above Ceiling	310-IWP-117A	None Detected	25% Sulfate Binders 50% Aggregate 25% Mineral Cleavages	I NF
69212B Dark Grey Cementitious 3rd Floor, East End Above Ceiling	310-IWP-117B	<1% Chrysotile	40% Sulfate Binders 25% Aggregate 35% Mineral Cleavages	I F
69213 Cream Joint Compound 2nd Floor Next To Elevator	310-JC-118	None Detected	90% Carbonate Binders 10% Mineral Cleavages	I NF
69214 Grey Ceiling Tile 2nd Floor, East End	310-CT-121	None Detected	35% Cellulose 45% Mineral Wool 5% Paint 15% Perlite	I F
69215 Grey Ceiling Tile 2nd Floor, Central	310-CT-122	None Detected	50% Cellulose 35% Mineral Wool 5% Paint 10% Perlite	I F
69216 Grey Ceiling Tile 2nd Floor, West End	310-CT-123	None Detected	40% Cellulose 40% Mineral Wool 5% Paint 15% Perlite	I F
69217A Black Roofing Southwest	310-PR-124A	None Detected	40% Synthetic 30% Organic Binders 30% Mineral Cleavages	I F
69217B Black Roofing Southwest	310-PR-124B	None Detected	10% Synthetic 40% Organic Binders 50% Mineral Cleavages	I F
69217C Black Roofing Southwest	310-PR-124C	None Detected	40% Synthetic 45% Organic Binders 15% Mineral Cleavages	I F



RESULTS: LAB SAMPLE # LAB DESCRIPTION LOCATION	CLIENT SAMPLE #	PERCENT & TYPE OF ASBESTOS	PERCENT & TYPE OF NON-ASBESTOS	LAYER* I-H APPEARANCE* F-NF
69217D Black Roofing Southwest	310-PR-124D	None Detected	5% Cellulose 5% Synthetic 45% Organic Binders 45% Mineral Cleavages	I F
69217E Silver Paint Southwest	310-PR-124E	None Detected	5% Cellulose 35% Mineral Cleavages 60% Pigment	I F
69218A Black Roofing Northwest	310-PR-125A	None Detected	30% Synthetic 30% Organic Binders 25% Aggregate 15% Mineral Cleavages	I F
69218B Black Roofing Northwest	310-PR-125B	None Detected	<1% Cellulose 40% Organic Binders 60% Mineral Cleavages	I F
69218C Black Roofing Northwest	310-PR-125C	None Detected	40% Synthetic 30% Organic Binders 30% Mineral Cleavages	I F
69218D Black Roofing Northwest	310-PR-125D	<1% Chrysotile	55% Organic Binders 45% Mineral Cleavages	I F
69218E Black Roofing Northwest	310-PR-125E	None Detected	15% Synthetic 45% Organic Binders 40% Mineral Cleavages	I F
69218F Black Roofing Northwest	310-PR-125F	None Detected	30% Synthetic 40% Organic Binders 30% Mineral Cleavages	I F
69219 Black Roofing East	310-PR-126	None Detected	30% Synthetic 30% Organic Binders 20% Aggregate 20% Mineral Cleavages	I F
69220 Black Mastic Around Protrusion	310-RPI-127	None Detected	35% Cellulose 50% Organic Binders 15% Mineral Cleavages	I F
69221 Grey Cementitious East Wall, North End	310-EWP-128	<0.1% Chrysotile	<1% Cellulose 30% Sulfate Binders 30% Aggregate 40% Mineral Cleavages	I F
69222 Grey Cementitious East Wall, Central	310-EWP-129	None Detected	<1% Cellulose 35% Sulfate Binders 35% Aggregate 30% Mineral Cleavages	I F
69223 Grey Cementitious East Wall, South End	310-EWP-130	None Detected	<1% Cellulose <1% Synthetic 30% Sulfate Binders 30% Aggregate 40% Mineral Cleavages	I F

RESULTS: LAB SAMPLE # LAB DESCRIPTION LOCATION	CLIENT SAMPLE #	PERCENT & TYPE OF ASBESTOS	PERCENT & TYPE OF NON-ASBESTOS	LAYER* EH APPEARANCE* F-NF
69224 Grey Cementitious 1st Floor Lobby	310-IWP-131	None Detected	<1% Cellulose 40% Sulfate Binders 25% Aggregate 35% Mineral Cleavages	I F
69225 Grey Cementitious 1st Floor Lobby	310-IWP-132	None Detected	<1% Cellulose 20% Carbonate Binders 35% Sulfate Binders 20% Aggregate 25% Mineral Cleavages	I F
69226 Grey Cementitious 1st Floor Lobby	310-IWP-133	None Detected	<1% Cellulose 35% Binders 30% Aggregate 35% Mineral Cleavages	I F

Attached are the results of analysis of bulk samples submitted for asbestos identification. Converse Consultants MR, Inc. follows EPA Method EPA/600/R-93/116; July, 1993.

Each sample was initially examined under a stereoscopic microscope at a magnification of 10x to 60x. Fibrous material was examined for morphology and content. Portions of each sample were immersed in a fluid with a known refractive index. The sample was examined under polarized light using a Nikon Labophot microscope with a McCrone Dispersion Staining objective under 100X magnification. Optical characteristics of the fibrous material were examined to determine the mineralogy of the fiber. The observed optical characteristics include angles of extinction, signs of elongation and dispersion staining colors. Asbestos fiber content is estimated by optically comparing the quantity of asbestos material and non-asbestos material to establish estimated percentages.

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\*F in the appearance column indicates a fibrous sample; NF indicates a nonfibrous sample.



# Appendix C



Converse Environmental  
 Consultants Southwest, Inc.  
 731 Pilot Road, Suite H  
 Las Vegas, Nevada 89119-4429  
 Telephone (702) 253-7600 Fax (702) 259-8353

# BULK SAMPLE SHEET

Client Name: CLARK County General Services

Project Name: Druidgen Building

Job Number: 96-43

Date: 12-31-96

Sample Number	MATERIAL	AMOUNT, COLOR, SIZE	SAMPLE LOCATION	REPORTED % ASBESTOS BY LAYER
BB-CT-101	1'x4' ceiling tile heavy heavy fissure pattern		1st floor <del>east</del> north East court Room west side	A: ND
BB-CT-102	"		" East side	A: ND
BB-CT-103	"		" North central	A: ND
BB-CT-104	2'x4' Ceiling tile small random slash Pattern		Treasurer/Controller office area	A: ND
BB-CT-105	"		"	A: ND
BB-CT-106	"		"	A: ND
BB-IWP-107	Interior wall Plaster, gray Rough texture		1st floor north East court room	A: ND B: ND C: ND
BB-IWP-108	"		1st floor north Entrance area	A: ND B: ND C: ND
BB-IWP-109	"		1st floor central area	A: ND
BB-FT-110	12" x 12" Gray w/ white streak, tan adhesive		1st Floor Hallway to west exit	A: ND B: ND

Signature



Converse Environmental  
 Consultants Southwest, Inc.  
 731 Pilot Road, Suite H  
 Las Vegas, Nevada 89119-4429  
 Telephone (702) 263-7600 Fax (702) 269-8353

# BULK SAMPLE SHEET

Client Name: CLARK County General Services  
 Project Name: Bridge Building  
 Job Number: 96-43 Date: 12-31-96

Sample Number	MATERIAL	AMOUNT, COLOR, SIZE	SAMPLE LOCATION	REPORTED % ASBESTOS BY LAYER
<del>12" x 12" f</del> BB-ET-111	12" x 12" Floor tile white w/BLACK speck TAD/BLACK MOHC		North Storage/ Shower area	A: NO B: NO
BB-WFA-112	Wall fabric adhesive, white		1st Floor North East Court room	A: NO
BB-FT-113	9' x 9' Floor tile, white		<del>1st</del> 4th Floor VAULT	A: 3.5 Tile B: Mosaic
BB-CT-114	1' x 1' Ceiling tile small dot large dash pattern		4th Floor VAULT	A: NO
BB-CT-115	"		"	A: NO
BB-CT-116	"		"	A: NO
BB-DI-117	insulation w/ DUCTATAPE, white over fiberglass		4th Garage level	A: NO
BB-EWP-118	Exterior wall Plaster		4th Garage level	A: NO
BB-CP-119	Ceiling Plaste		4th level Garage level	A: NO
BB-CP-120	"		"	A: NO

Signature J. J. Mas



Converse Environmental  
 Consultants Southwest, Inc.  
 731 Pilot Road, Suite H  
 Las Vegas, Nevada 89119-4429  
 Telephone (702) 263-7600 Fax (702) 269-8353

# BULK SAMPLE SHEET

Client Name: CLARK county General Services

Project Name: Bridger Building

Job Number: 96-43 Date: 12-31-96

Sample Number	MATERIAL	AMOUNT, COLOR, SIZE	SAMPLE LOCATION	REPORTED % ASBESTOS BY LAYER
BB-CP-121	Ceiling Plaster		4th level garage	A: NO
BB-CP-122	"		"	A: NO
BB-CP-123	"		"	A: NO
BB-DI-124	Duct Insulation w/ TAPE over fiberglass Insulation		4th level garage	A: NO
BB-DI-125	Duct Insulation NO TAPE		"	A: NO
BB-CT-126	1'x1' Ceiling tile Grom w/Parrell slash Pattern		5th floor near Elevators	A: NO
BB-CA-127	CARPET adhesive TAN		5th floor north side office HALLWAY	A: NO
BB-FT-128	9" x 9" Floor tile Cream w/gray highlight BLACK adhesive		5th floor men's <del>restroom</del> Rest room	A: 2-3 tile B: 5-10 mastic
BB-FTA-129	Floor tile adhesive BLACK		Electrical room ancosi men's room on 5th floor	A: NO
BB-FT-130	9" x 9" Floor tile Cream w/gray highlight BLACK adhesive		5th floor Break room	A: 2-3 tile B: 3-5 mastic

Signature [Handwritten Signature]

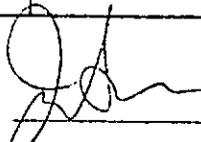


Converse Environmental  
 Consultants Southwest, Inc.  
 731 Pilot Road, Suite H  
 Las Vegas, Nevada 89119-4429  
 Telephone (702) 263-7600 Fax (702) 269-8353

# BULK SAMPLE SHEET

Client Name: CLARK County General Services  
 Project Name: Bridger Building  
 Job Number: \_\_\_\_\_ Date: 12-31-96

Sample Number	MATERIAL	AMOUNT, COLOR, SIZE	SAMPLE LOCATION	REPORTED % ASBESTOS BY LAYER
BB-FT-131	12" x 12" Floor tile TAN w/ Brown + white highlights 2 Layer of Floor tile TAN ADHESIVE		6th Floor closet area <del>East</del> side of west Floor	A: 3-5 tile B: 71-3 <del>max</del> tile
BB-FT-132	unknown size Floor tile white, Black ADHESIVE		6th Floor closet area west side Below sample # BB-FT-131	A: 21-3 tile B: NO C: 5-10 mastic
BB-FT-133	12" x 12" Floor tile gray, white, white chips, TAN adhesive		6th Floor closet area East side of Floor.	A: NO
BB-FT-134	12" x 12" Floor tile gray w/ white chips TAN adhesive		"	A: 61 (Trace) tile B: NO
BB-FT-135	Unknown size Floor tile gray, TAN adhesive		Below sample BB-FT-134	A: NO B: NO
BB-FT-136	12" x 12" Floor tile TAN w/ Brown + white highlights, TAN adhesive Two Layer of Floor tile over GRAY		6th Floor East Closet area	A: NO B: NO C: NO
BB-CT-137	2' x 4' Ceiling tile Small DOT/long-shank Pattern, red Backing		<del>East</del> side offices North, 7th Floor	A: NO
BB-CT-138	"		"	A: NO
BB-CT-139	"		"	A: 41
BB-CT-140	2' x 4' Ceiling tile ms/mo Patter		womens restroom 	A: NO

Signature 





Converse Environmental  
 Consultants Southwest, Inc.  
 731 Pilot Road, Suite H  
 Las Vegas, Nevada 89119-4429  
 Telephone (702) 263-7600 Fax (702) 269-8353

# BULK SAMPLE SHEET

Client Name: CLARK COUNTY GENERAL SERVICES  
 Project Name: BRIDGER BUILDING  
 Job Number: 9643995-01 Date: 1-2-97

Sample Number	MATERIAL	AMOUNT, COLOR, SIZE	SAMPLE LOCATION	REPORTED % ASBESTOS BY LAYER
BB-CTA-145	CERAMIC TILE ADHESIVE (YELLOW)		5TH FLOOR/LADIES REST ROOM SE CORNER @ CEILING LEVEL	A: ND
BB-dwm-146	drywall Compound		5TH FLOOR/INTERIOR office @ HALLWAY above ceiling opposite (RM 513)	A: ND
BB-IWP-147	INTERIOR WALL PLASTER - grey ROUGH TEXTURE		5TH FLOOR/MENS REST ROOM #513 SW CORNER ABOVE CEILING @ LAV	A: ND
BB-dwm-148	drywall Compound		6TH FLOOR/INTERIOR OFFICE CLOSET OPPOSITE ROOM 629 SW ABOVE CEILING	A: ND
BB-IWP 149	INTERIOR WALL PLASTER - grey ROUGH TEXTURE		6TH FLOOR/LADIES ROOM # 601/SOUTH EAST	A: ND B: ND
BB-CT-150	CEILING TILE 2' X 4' <sup>WHITE</sup> SMALL DOT/MED SLASH		6TH FLOOR-ABOVE RECEPTION DESK CENTER of MAIN HALL WAY-OPPOSITE ELEVATOR	A: ND
BB-CT-151	2' X 4' CEILING <sup>WHITE</sup> TILE/SMALL DOT MEDIUM SLASH		6TH FLOOR-NEXT TO ROOM #634 @ ELECTRICAL UTILITY CABINET/SOUTH EAST	A: ND
BB-CT-152	2' X 4' CEILING <sup>WHITE</sup> TILE/SMALL DOT MEDIUM SLASH		SOUTH CENTER CEILING " " " " " " SAME FLOOR/SAME INTERIOR OFFICE	A: ND
BB-CT-153	2' X 4' CEILING <sup>WHITE</sup> TILE/SMALL DOT MEDIUM SLASH		7TH FLOOR CONFERENCE ROOM # 732 NORTHWEST WALL INTERIOR OFFICE	A: ND
BB-CT-154	2' X 4' CEILING <sup>WHITE</sup> TILE/SMALL DOT MEDIUM SLASH		7TH FLOOR/LADIES REST ROOM # 723 SOUTHWEST CEILING	A: ND

Signature ERIK BLANKEN



Converse Environmental  
Consultants Southwest, Inc.  
731 Pict Road, Suite H  
Las Vegas, Nevada 89119-4429  
Telephone (702) 283-7800 Fax (702) 269-8353

# BULK SAMPLE SHEET

Client Name: CLARK COUNTY GENERAL SERVICES

Project Name: BRIDGER BUILDING

Job Number: 9643995-01 Date: 1-2-97

Sample Number	MATERIAL	AMOUNT, COLOR, SIZE	SAMPLE LOCATION	REPORTED % ASBESTOS BY LAYER
BB-dwm-155	drywall compound		7TH FLOOR / ROOM # CONFERENCE - 732 NORTH WEST WALL ABOVE CEILING	A: ND
BB-CT-156	2' X 4' CEILING TILE / SMALL dot - MEDIUM SLASH		7TH FLOOR / CENTER HALLWAY - OPPOSITE LADIES RESTROOM # 723	QC # 1 A: ND
BB-IWP-157	INTERIOR WALL PLASTER - grey - ROUGH TEXTURE		7TH FLOOR / LADIES RESTROOM # 732 ABOVE CEILING & SOUTHWEST CORNER	QC # 2 A: ND
BB-dwm-158	drywall compound		8TH FLOOR INTERIOR OFFICE MARKED ENTRANCE CENTER of SW WALL	A: ND
BB-IWP-159	INTERIOR WALL PLASTER - grey - ROUGH TEXTURE		8TH FLOOR / LADIES RESTROOM / SOUTH EAST CORNER - ABOVE CEILING ABOVE LAV	A: 71-3 REINCE 4.5 %
BB-IWP-160	INTERIOR WALL PLASTER - grey - ROUGH TEXTURE		9TH FLOOR, LADIES RESTROOM # 921 SE CORNER ABOVE CEILING @ LAV	A: ND
BB-dwm-161	drywall compound		9TH FLOOR / ABOVE CEILING IN MAIN HALLWAY NORTH of ELEVATOR'S / E. GRM 904	A: 3-5 compound B: ND
BB-IWP-162	INTERIOR WALL PLASTER grey - ROUGH TEXTURE		10TH FLOOR LADIES RESTROOM SOUTH EAST CORNER ABOVE CEILING @ LAV	A: ND
BB-dwm-163	drywall compound		10TH FLOOR - ABOVE CEILING IN HALLWAY NORTH of ELEVATOR BANK - EAST of RM 1001	A: ND
BB-RM-164	Roof MATERIAL (FLASHING)		NORTH WEST CORNER of MAIN Roof @ slope	A: ND B: ND C: ND D: ND

Signature EMILY BLACKMAN



Converse Environmental  
 Consultants Southwest, Inc.  
 731 Pilot Road, Suite H  
 Las Vegas, Nevada 89119-4429  
 Telephone (702) 263-7600 Fax (702) 269-8353

# BULK SAMPLE SHEET

Client Name: CLARK COUNTY GENERAL SERVICES  
 Project Name: BRIDGER BUILDING  
 Job Number: 9643995-01 Date: 1-2-97

Sample Number	MATERIAL	AMOUNT, COLOR, SIZE	SAMPLE LOCATION	REPORTED % ASBESTOS BY LAYER
BB-RM-165	Roof MATERIAL BLACK/MASTIC		NORTH WEST SIDE of MAIN Roof-	A: ND B: ND
BB-RM-166	Roof MATERIAL LAYERED ASPHALT		NW AREA of MAIN Roof & METAL dome	A: ND
BB-RM-167	Roof MATERIAL BLACK/MASTIC		NORTHWEST SIDE of MAIN Roof	A: ND
BB-IWP-168	INTERIOR WALL PLASTER - grey - ROUGH TEXTURE		6TH FLOOR / ladies REST ROOM - west WALL ABOVE CEILING	A: ND
BB-RM-169	Roof MATERIAL LAYERED / FOAM INSULATION + ASPHALT		SOUTHWEST corner UPPER SECONDARY Roof	A: ND B: ND C: ND F: ND D: ND
BB-RM-170	Roof MATERIAL LAYERED / FOAM INSULATION + ASPHALT		NORTH EAST AREA of MAIN Roof of NEW METAL dome	A: ND B: ND C: ND F: ND D: ND

Signature EMERAL BLACKMAN



Converse Inspectors: <u>John Watkins</u>		Project Name: <u>Bridge Building</u>		Project Number: <u>99-43324-07</u>		Date Sampled: <u>7-23-99</u>	
Converse Contact: <u>John Watkins</u>		Project Location: <u>225 Bridge Ave</u>		Analysis Type: <u>Asbestos</u> Air PCM <u>Bulk</u> (PLM)		Lab: <u>CCMR</u>	
Converse Phone No. (702) 263-7600		Client/Contact:		(Please Circle) Lead Wipe Air (TEM) Bulk			
Turn-A-Round Time: (Circle) <u>RUSH</u>		24 Hours		2 Days		Requested: Verbal <u>File</u>	

LAB #	SAMPLE #	MATERIAL DESCRIPTION	SAMPLE LOCATION	QTY	COND	F/NF	COMMENTS	RESULTS
68648	BB-CP-127	Blue Paint	5th Floor Stairwell exterior					N.D.
68649	BB-CP-126	Ceiling Plaster	3rd Floor Garage					<1% Chry.
68650	BB-CP-129	" "	2nd Floor Garage					N.D.
68651	BB-CP-130	" "	3rd Floor Garage					<1% Chry.
68652	BB-WP-131	Wall Plaster	3rd Floor Garage					N.D.
68653	BB-WP-132	" "	" "					N.D.
68654	BB-WP-133	" "	" "					<1% Chry.
68655	BB-WP-134	" "	" "					N.D.
68656	BB-WP-135	" "	" "					<1% Chry.
68657	BB-C-136	Concrete Panel	South Exterior of Building					N.D.

PF1 - Pipe Fitting Insulation PPI - Pipe Part Insulation DI - Duct Insulation TI - Tank Insulation EJ - Expansion Joint BI - Boiler Insulation FT - Floor Tile M - Mastic CBM - Core Block Mastic AT - Acoustic Tile SA - Spray Acoustic WP - Wall Plaster GA - Gasket D - Ducts TH - Thermal System Insulation R - Roof DW - Drywall JC - Joint Compound G - Good (No maintenance is required currently) <10% D - Damaged (Some repair needed) SD - Significantly Damaged (Repair or replace ASAP)	LF - Linear Feet SF - Square Feet CF - Cubic Feet A - Amosite Asbestos C - Crocidolite Asbestos NDA - No Asbestos Detected Assured ACM - No Samples Taken
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Retrieved By: <u>[Signature]</u>	Retrieved By: _____	Retrieved By: _____	Retrieved By: _____
Date/Time: <u>7-23-99</u>	Date/Time: _____	Date/Time: _____	Date/Time: _____
Received By: <u>[Signature]</u>	Received By: _____	Received By: _____	Received By: _____

P.02  
 98%  
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P. 01  
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JUL-26-1999 13:44

Converse Inspector: <u>John Wattles</u>		Project Name: <u>Bridge Building</u>		Project Number: <u>99-43324-07</u>		Date Sampled: <u>7-23-99</u>	
Converse Contact: <u>John Wattles</u>		Project Location: <u>225 Bridge</u>		Analysis Type: <u>Asbestos</u> Air <u>OCM</u> <u>Bulk</u> PLMI		Lab: <u>CCMR</u>	
Converse Phone No. (702) 263-7600		Client/Contact:		(Please Circle) Lead Wipe Air (TMS) Bulk			
Turn-A-Round Time: (Circle) <u>RUSH</u>		24 Hours		2 Days		Requested: Verbal <u>Fax</u>	

LAB #	SAMPLE #	MATERIAL DESCRIPTION	SAMPLE LOCATION	QTY	COND	FNF	COMMENTS	RESULTS
68638	BB-PB/C-117	Blue Point + concrete	6th Floor Stairwell Exterior					N.D.
68639	BB-WP+116	<del>interior wall</del> Plaster	6th Floor Stairwell wall					N.D.
68640	BB-DW/JC-119	Drywall + Joint compound	6th Floor Hallway near Elevator					<1% chg texture
68641	BB-DW/JC-120	" "	7th Floor East/central					N.D.
68642	BB-PB-121	Blue Point	7th Floor Stairwell Exterior					<1% chg
68643	BB-DW/JC-122	Drywall + Joint compound	6th Floor South East					3-5% chg tex.
68644	BB-FWP-123	Interior wall Plaster	6th Floor next to RR + Elevator					N.D.
68645	BB-PB/C-124	Blue Point + concrete	6th Floor Stairwell Exterior					N.D.
68646	BB-DW/JC-125	Drywall + Joint compound	5th Floor Hallway					3-5% chg JC.
68647	BB-FWP-126	Interior wall Plaster	5th Floor near Elevator					N.D.

PF - Pipe Fitting Insulation PFI - Pipe Fitting Insulation DI - Duct Insulation TI - Tank Insulation EJ - Expansion Joint BI - Boiler Insulation	FT - Floor Tile M - Mastic CBM - Core Base Mastic AT - Acoustic Tile SA - Spray Acoustic WP - Wall Plaster	GA - Gasket D - Debris TSI - Thermal System Insulation R - Roof DW - Drywall JC - Joint Compound	G - Good (No maintenance is required currently) < 10% D - Damaged (Some repair needed) SD - Significantly Damaged (Repair or replace ASAP)	LF - Linear Feet SF - Square Feet CF - Cubic Feet	A - Asbestos C - Crysotile Asbestos NDA - No Asbestos Detected Assumed ACM - No Samples Taken
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Relinquished By: <u>[Signature]</u>	Relinquished By: _____	Relinquished By: _____	Relinquished By: _____
Date: <u>7-23-99</u>	Date: _____	Date: _____	Date: _____
Received By: <u>[Signature]</u>	Received By: _____	Received By: _____	Received By: _____

Converse Inspectors: <u>John Watkins</u>		Project Name: <u>Bridge Building</u>		Project Number: <u>99-43324-07</u>		Date Sampled: <u>7-22-99</u>	
Converse Contact: <u>John Watkins</u>		Project Location: <u>225 Bridge Ave</u>		Analysis Type: <u>Asbestos Air (PCM)</u> <del>Bulk</del>		Lab: <u>CMR</u>	
Converse Phone No. (702) 263-7600		Client/Contact:		(Please Circle) <u>Lead Wipe Air (TEM)</u> Bulk			
Turn-A-Round Time: (Circle) <u>RUSH</u>		24 Hours		2 Days		Requested: Verbal <u>Fax</u>	

LAB #	SAMPLE #	MATERIAL DESCRIPTION	SAMPLE LOCATION	QTY	COND	F/NF	COMMENTS	RESULTS
<u>BB-03</u>	<u>BB-EWP -117</u>	<u>Exterior wall Plaster (stucco)</u>	<u>West High Block Exterior wall on Bridge Building</u>					<u>&gt;1-3 Chy Paint NO Plaster</u>
<u>BB-04</u>	<u>BB-EWP -118</u>	<u>"</u>	<u>"</u>					<u>NO</u>
<u>BB-05</u>	<u>BB-EWP -119</u>	<u>"</u>	<u>"</u>					<u>&lt;1% Chy Paint NO Plaster</u>
<u>BB-06</u>	<u>BB-EWP -120</u>	<u>"</u>	<u>"</u>					<u>&lt;1% Chy Paint NO Plaster</u>
<u>BB-07</u>	<u>BB-EWP -121</u>	<u>"</u>	<u>"</u>					<u>&lt;1% Chy Plaster NO Paint</u>

PFI - Pipe Fitting Insulation PPI - Pipe Part Insulation DI - Duct Insulation TI - Tank Insulation EJ - Expansion Joint BI - Boiler Insulation	FT - Floor Tile M - Mastic CBM - Core Brick Mastic AT - Acoustic Tile SA - Spray Acoustic WP - Wall Plaster	OA - Gasket D - Debris TSI - Thermal System Insulation R - Roof DW - Drywall JC - Joint Compound	G - Good (No maintenance is required currently) <10% D - Damaged (Some repair needed) SD - Significantly Damaged (Repair or replace ASAP)	LF - Linear Feet SF - Square Feet CF - Cubic Feet	A - Amosite Asbestos C - Crocidolite Asbestos NDA - No Asbestos Detected Assured ACM - No Samples Taken
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Relinquished By: <u>[Signature]</u>	Relinquished By: _____	Relinquished By: _____	Relinquished By: _____
Date/Time: <u>7-22-99 7:23 AM</u>	Date/Time: _____	Date/Time: _____	Date/Time: _____
Received By: <u>[Signature]</u>	Received By: _____	Received By: _____	Received By: _____

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P. 01

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Converse Inspector: <u>John Watkins</u>	Project Name: <u>Bridger Building</u>	Project Number: <u>99-43324-07</u>	Date Sampled: <u>8-3-99</u>
Converse Contact: <u>John Watkins</u>	Project Location: <u>225 Bridger Ave</u>	Analysis Type: <u>Asbestos Air (PCM) Bulk</u> (PLM)	Lab: <u>CCMR</u>
Converse Phone No. (702) 283-7600	Client/Contact:	(Please Circle) Lead Wipe Air (TEM) Bulk	
Turn-A-Round Time: (Circle) <u>RUSH</u> 24 Hours <u>2 Days</u>	Requested:	Verbals <u>Fax</u>	

LAB #	SAMPLE #	MATERIAL DESCRIPTION	SAMPLE LOCATION	QTY	COND	F/NF	COMMENTS	RESULTS
69172	BB-EP-137	Exterior Paint Blue/green w	4th level garage sub panel Blue/green Paint					N.D.
69173	BB-EP-138	" "	" "					N.D.
69174	BB-EP-139	" "	" "					N.D.
69175	BB-EP-140	Exterior Paint white	3rd panel from East end					<1% Chy
69176	BB-EP-141	" "	6th Panel from " "					<1% Chy
69177	BB-EP-142	" "	9th Panel from " "					<1% Chy
69178	BB-EP-143	" "	11th Panel from " "					N.D.
69179	BB-EP-144	" "	14th Panel from " "					N.D.
69180	BB-EP-145	" "	17th Panel from " "					N.D.
69181	BB-EP-146	Exterior Paint Blue/green	southwest panel East					N.D.

PFI - Pipe Fitting Insulation PPI - Pipe Part Insulation DI - Duct Insulation TI - Tank Insulation EJ - Expansion Joint BI - Boiler Insulation FT - Floor Tile M - Mastic CBM - Core Basic Mastic AT - Acoustical Tile SA - Spray Acoustic WP - Wall Plaster GA - Gasket D - Debris TSI - Thermal System Insulation R - Roof DW - Drywall JC - Joint Compound G - Good (No maintenance is required currently) <10% D - Damaged (Some repair needed) SD - Significantly Damaged (Repair or replace ASAP) LF - Linear Feet SF - Square Feet CF - Cubic Feet A - Amosite Asbestos C - Crocidolite Asbestos NDA - No Asbestos Detected Assumed ACM - No Samples Taken
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Relinquished By: <u>[Signature]</u>	Relinquished By: _____	Relinquished By: _____	Relinquished By: _____
Date Time: <u>8-3-99</u>	Date Time: _____	Date Time: _____	Date Time: _____
Received By: <u>[Signature]</u>	Received By: _____	Received By: _____	Received By: _____

Converse Inspectors: <u>John Watkins</u>		Project Name: <u>Bridger Building</u>		Project Number: <u>99-47324-07</u>		Date Sampled: <u>8-3-99</u>	
Converse Contact: <u>John Watkins</u>		Project Location: <u>225 Bridger Building</u>		Analysis Type: <u>Asbestos</u> Air (PCM) <u>Bulk</u> (PLM)		Lab: <u>CMR</u>	
Converse Phone No. (702) 263-7600		Client/Contact:		(Please Circle) Lead Wipe Air (TEM) Bulk		[REDACTED]	
Turn-A-Round Time: (Circle) RUSH 24 Hours <u>2 Days</u>		Requested:		Verbate		Fax	

LAB #	SAMPLE #	MATERIAL DESCRIPTION	SAMPLE LOCATION	QTY	COND	F/NF	COMMENTS	RESULTS
69182	BB-EP - 147	Exterior Paint Blue/green (w)	South west Panel					<1% Chy
69183	BB-EP - 148	" "	Southwest Panel					N.D.
69184	BB-EP - 149	Exterior Paint white	Northwest Panel 5th from west					N.D.
69185	BB-EP - 150	" "	5th from west					N.D.
69186	BB-EP - 151	" "	11th " "					<1% Chy
69187	BB-EP - 152	" "	16th from west					<1% Chy
69188	BB-EP - 153	" "	21st from west					<1% Chy
69189	BB-EP - 154	" "	27th from west					N.D.
69190	BB-EP - 155	Exterior Blue/green	10th Floor Stair well					>1-3% Chy
69191	BB-EP - 156	" "	9th Floor Stair well					<1% Chy

PFI - Pipe Fitting Insulation	FT - Floor Tile	GA - Gasket	G - Good (No maintenance is required currently) < 10%	LF - Linear Feet	A - Amosite Asbestos
PPI - Pipe Part Insulation	M - Mastic	D - Debris	D - Damaged (Some repair needed)	SF - Square Feet	C - Crocidolite Asbestos
DI - Duct Insulation	CBM - Core Basic Mastic	TSI - Thermal System Insulation	SD - Significantly Damaged (Repair or replace ASAP)	CF - Cubic Feet	NDA - No Asbestos Detected
TI - Tank Insulation	AT - Acoustic Tile	R - Roof			Assumed ACM - No Samples Taken
EJ - Expansion Joint	SA - Spray Acoustic	DW - Drywall			
BI - Boiler Insulation	WP - Wall Plaster	JC - Joint Compound			

Requisitioned By: <u>[Signature]</u>	Requisitioned By: _____	Requisitioned By: _____	Requisitioned By: _____
Date of Time: <u>8-3-99</u>	Date of Time: _____	Date of Time: _____	Date of Time: _____
Received By: <u>[Signature]</u>	Received By: _____	Received By: _____	Received By: _____

P.02  
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Converse Inspectors: John Watkins Project Name: Bridger Project Number: 99-43324-07 Date Sampled: 8-6-99

Converse Contact: John Watkins Project Location: 225 Bridger Av Analysis Type: Asbestos Air (PCM) Bulk Lab: CCMR

Converse Phone No. (702) 263-7600 Client/Contact: \_\_\_\_\_ (Please Circle) Lead Wipe Air (TEM) Bulk

Turn-A-Round Time: (Circle) RUSH 24 Hours 2 Days Requested: Verbal Fax

LAB #	SAMPLE #	MATERIAL DESCRIPTION	SAMPLE LOCATION	QTY	COND	F/NF	COMMENTS	RESULTS
69296	BB-EP-161	Exterior Plaster	West wall North End					N.D.
69297	BB-EP-162	"	" " " "					N.D.
69298	BB-EP-163	"	" " " "					N.D.
69299	BB-EP-164	"	West wall South End					N.D.
69300	BB-EP-165	"	" " " "					N.D.
69301	BB-EP-166	"	" " " "					N.D.

PFI - Pipe Fitting Installation  
 PPI - Pipe Part Installation  
 DI - Duct Installation  
 TI - Tank Installation  
 EJ - Expansion Joint  
 BI - Boiler Installation  
 FT - Floor Tile  
 M - Mosaic  
 CBM - Core Base Mastic  
 AT - Acoustic Tile  
 SA - Spray Acoustic  
 WP - Wall Plaster  
 GA - Gasket  
 D - Debris  
 TS - Thermal System Insulation  
 R - Roof  
 DW - Drywall  
 JC - Joint Compound  
 G - Good (No maintenance is required currently) <10%  
 D - Damaged (Some repair needed)  
 SD - Significantly Damaged (Repair or replace ASAP)  
 LF - Linear Feet  
 SF - Square Feet  
 CF - Cubic Feet  
 A - Amosite Asbestos  
 C - Crocidolite Asbestos  
 NOA - No Asbestos Detected  
 Assured ACM - No Samples Taken

Reinspected By: [Signature] Reinspected By: \_\_\_\_\_ Reinspected By: \_\_\_\_\_  
 Date of Time: 8-6-99 Date of Time: \_\_\_\_\_ Date of Time: \_\_\_\_\_  
 Received By: [Signature] Received By: \_\_\_\_\_ Received By: \_\_\_\_\_

P.01  
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 AUG-10-1999 06:23



731 Pilot Road, Suite H, Las Vegas, NV 89119

(702) 263-7600 FAX (702) 269-8353

NO. 980 P. 3/4

Converse Inspectors: <u>John Watkins</u>		Project Name: <u>Centennial Building</u>		Project Number: <u>99-43324-07</u>		Date Sampled: <u>8-3-99</u>	
Converse Contact: <u>John Watkins</u>		Project Location: <u>310 3rd St.</u>		Analysis Type: Asbestos Air (PCM) Bulk (PLM)		Lab: <u>CEMP</u>	
Converse Phone No. (702) 283-7600		Client/Contact:		(Please Circle) Lead Wipe Air (TEM) Bulk			
Turn-A-Round Time: (Circle) RUSH 24 Hours 2 Days		Requested:		Verbale		Fax	

LAB #	SAMPLE #	MATERIAL DESCRIPTION	SAMPLE LOCATION	QTY	COND	F/NF	COMMENTS	RESULTS
69214	310-CT-121	2x4 Ceiling tile	2nd Floor East End					N.D.
69215	310-CT-122	2x4 Ceiling tile	" " Central					N.D.
69216	310-CT-123	2x4 Ceiling tile	" " West End					N.D.
69217	310-PR-124	Primary roof	Southwest					N.D.
69218	310-PR-125	" "	Northwest					< 2% ch
69219	310-PR-126	" "	East					N.D.
69220	310-RR-127	Roof	around protrusion					N.D.
69221	310-EWP-128	Exterior wall Plaster	East wall L north					< 0.1 % ch
69222	310-EWP-129	" "	" " Central					N.D.
69223	310-EWP-130	" "	" " South					N.D.

CONV CONS SW

AUG. 6. 1999 3:04PM

PF - Pipe Fitting Insulation PFI - Pipe Fitting Insulation DI - Duct Insulation TI - Tank Insulation EJ - Expansion Joint BI - Boiler Insulation	FT - Floor Tile M - Mastic CBM - Core Basic Mastic AT - Acoustic Tile SA - Spray Acoustic WP - Wall Plaster	GA - Gasket D - Details TS1 - Thermal System Insulation R - Roof DW - Drywall JC - Joint Compound	G - Good (No maintenance is required currently) < 10% D - Damaged (Some repair needed) SD - Significantly Damaged (Repair or replace ASAP)	LF - Linear Feet SF - Square Feet CF - Cubic Feet	A - Asbestos C - Control Asbestos NDA - No Asbestos Detected Assured ACM - No Samples Taken
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Requisitioned By: <u>[Signature]</u>	Requisitioned By: _____	Requisitioned By: _____	Requisitioned By: _____
Date/Time: <u>8/3/99</u>	Date/Time: _____	Date/Time: _____	Date/Time: _____
Received By: <u>[Signature]</u>	Received By: _____	Received By: _____	Received By: _____

P. 03

98%

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AUG-06-1999 16:07

731 Pilot Road, Suite H, Las Vegas, NV 89119

(702) 263-7600 FAX (702) 269-8353

NO. 980 P. 1/4

Converse Inspectors: <u>John Wotkowiak</u>		Project Name: <u>Centennial</u>		Project Number: <u>99 43 324 07</u>		Date Sampled: <u>8-3-99</u>	
Converse Contact: <u>John Wotkowiak</u>		Project Location: <u>310 3<sup>rd</sup> St</u>		Analysis Type: Asbestos Air (PCM) Bulk (PLM)		Label: <u>[REDACTED]</u>	
Converse Phone No. (702) 263-7600		Client/Contact:		(Please Circle) Lead Wipe Air (TEM) Bulk		CCMR	
Turn-A-Round Time: (Circle) RUSH		24 Hours		2 Days		Requested: Verbal Fax	

LAB #	SAMPLE #	MATERIAL DESCRIPTION	SAMPLE LOCATION	QTY	COND	F/NF	COMMENTS	RESULTS
69196	310-CT-101	2x4 Ceiling tile	1st Floor Central					ND
69197	310-CT-102	" "	" "					ND
69198	310-CT-103	" "	" "					ND
69199	20-SFP-104	Structural fire Protection	4th Fl East side				Part of Bridgman	5-10% Ch
69200	310-SFP-105	" "	" Central				"	3-5% Chry
69201	310-SFP-106	" "	" West side				"	5-10% Ch
69202	310-FT-107	12" x 12" Floor Grey	1st Floor Records					ND
69203	310-DW/SC-108	Drywall + Joint Compound	1st Floor Records					ND
69204	310-DW/SC-109	" "	" "					ND
69205	310-DW/SC-110	" "	" "					<1% Ch JC

CONV CONS SW

AUG. 6. 1999 3:03PM

PF1 - Pipe Fitting Insulation PF2 - Pipe Part Insulation DI - Duct Insulation TI - Tank Insulation EJ - Expansion Joint BI - Boiler Insulation	FT - Floor Tile M - Mastic CBM - Core Basic Mastic AT - Acoustic Tile SA - Spray Acoustic WP - Wall Plaster	GA - Gasket D - Dishes TM - Thermal System Insulation R - Roof DW - Drywall JC - Joint Compound	G - Good (No maintenance is required currently) <10% D - Damaged (Some repair needed) SD - Significantly Damaged (Repair or replace ASAP)	LF - Linear Feet SF - Square Feet CF - Cubic Feet	A - Asbestos C - Chrysotile Asbestos NDA - No Asbestos Detected Assumed ACM - No Sample Taken
Relinquished By: <u>[Signature]</u>	Relinquished By: _____	Relinquished By: _____	Relinquished By: _____	Relinquished By: _____	Relinquished By: _____
Date/Time: <u>8-3-99</u>	Date/Time: _____	Date/Time: _____	Date/Time: _____	Date/Time: _____	Date/Time: _____
Received By: <u>[Signature]</u>	Received By: _____	Received By: _____	Received By: _____	Received By: _____	Received By: _____

F:\MSTR\WFORMS\SURVEY DATA (Asbestos, Lead, Air, Bulk)

P.01

98%

7028563513

AUG-06-1999 16:06

Converse Inspectors: <u>John Watkins</u>		Project Name: <u>Centennial</u>		Project Number: <u>99-43324-07</u>		Date Sampled: <u>8-3-99</u>	
Converse Contact: <u>John Watkins</u>		Project Location: <u>310 3rd ST.</u>		Analysis Type: <u>Asbestos</u> Air (PCM) <u>Bulk</u> (PLM)		Lab: <u>CKMP</u>	
Converse Phone No. (702) 263-7600		Client/Contact:		(Please Circle) Lead Wipe Air (TEM) Bulk			
Turn-A-Round Time: (Circle) RUSH 24 Hours <u>2 Days</u>		Requested:		Verbals <u>Yes</u>			

LAB #	SAMPLE #	MATERIAL DESCRIPTION	SAMPLE LOCATION	QTY	COND	F/NF	COMMENTS	RESULTS
9206	310-CT-111	2x4 ceiling tile	3rd Floor East End					N.D.
9207	310-CT-112	" "	" " central					N.D.
9208	310-CT-113	" "	" " west End					N.D.
9209	310-DW/R-114	Drywall + Joint compound	3rd Floor East End					N.D.
9210	310-DW/R-115	" "	" " central					N.D.
9211	310-DW/R-116	" "	" " west End					N.D.
9212	310-RWP-117	Interior wall Plaster	3rd Floor East End above ceiling					<190cb
9213	310-JC-118	Joint compound	2nd Floor next to Elevator					N.D.
X	310-JC-119	Joint compound	<del>central hallway</del>				VOID	<del>N.D.</del>
X	310-JC-120	" "	<del>gpr</del>				VOID	

FI - Pipe Fitting Insulation	FT - Floor Tile	GA - Gasket	G - Good (No maintenance is required currently) <10%	LF - Linear Feet	A - Amosite Asbestos
PI - Pipe Part Insulation	M - Mastic	D - Delta	D - Damaged (Some repair needed)	SF - Square Feet	C - Crocidolite Asbestos
D - Duct Insulation	CBM - Core Base Mastic	TSI - Thermal System Insulation	SD - Significantly Damaged (Repair or replace ASAP)	CF - Cubic Feet	NDA - No Asbestos Detected
T - Tank Insulation	AT - Acoustic Tile	R - Roof			Assumed ACM - No Samples Taken
EJ - Expansion Joint	SA - Spray Acoustic	DW - Drywall			
BI - Boiler Insulation	WP - Wall Plaster	JC - Joint Compound			

Prepared By: <u>[Signature]</u>	Prepared By: _____	Prepared By: _____	Prepared By: _____
Date: <u>8/3/99</u>	Date: _____	Date: _____	Date: _____
Received By: <u>[Signature]</u>	Received By: _____	Received By: _____	Received By: _____



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**Previous Survey Reports**

**Appendix D**



# UNIVERSITY ASSOCIATES, LTD.

*Occupational and Environmental Health*

10 November 1987

**RECEIVED**

NOV 12 1987

DESIGN & CONST.  
MNGT. DIVISION

James V. Wondra  
Clark County  
Dept. of Public Works  
5051 Paradise Road  
Las Vegas, NV 89119

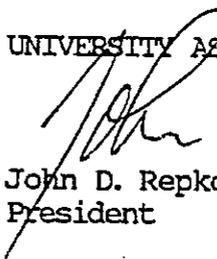
Dear Whitey,

Attached please find the report of the asbestos survey of the Bridger Building. You will find the cost estimate high, but it does include the fact that we would have to do the abatement floor by floor with moving times allotted between floors. I have also addressed the problem of renovation until such time as abatement can be completed.

If you have any questions, do not hesitate to call.

Sincerely,

UNIVERSITY ASSOCIATES, LTD.

  
John D. Repko, Ph.D.  
President

/dm  
WONDRA2.LTR

3791 NORTH CAMINO DE OESTE

CORPORATE OFFICES:

TUCSON, ARIZONA 85745

(602) 743-7918

BRANCH OFFICES:

LOS ANGELES AREA: (213) 541-3061

LAS VEGAS AREA: (702) 732-8818

Whitey  
file  
11-10-87



CLARK COUNTY DEPARTMENT OF PUBLIC WORKS  
BRIDGER BUILDING  
LAS VEGAS, NEVADA

REPORT OF SURVEY AND RECOMMENDATIONS

SURVEY

On October 10, 1987, University Associates, Ltd., conducted an asbestos evaluation<sup>1</sup> of the Bridger Building. The purpose of this survey was to thoroughly and totally access, test, and document the existence of asbestos-containing material in order to make logical and prudent decisions regarding abatement actions. This inspection involved specified ceiling and mechanical and plumbing systems, including but not limited to the following area: mechanical and equipment rooms, roof and attic. The inspection included looking for and touching all suspect friable materials, including surfaces above ceilings and non-permanently concealed areas which may be entered during normal maintenance and repair. For purposes of this inspection and according to 40 CFR 763.103(d), friable material is regarded as any material applied on ceilings, walls, structural members, piping, ductwork or any other part of the building surfaces which, when dry, may be crumbled, pulverized or reduced to a powder by hand pressure. Also, because of the many uses to which asbestos has been put in public buildings, non-friable asbestos material was also noted wherein it may pose a special problem. Vinyl asbestos floor tile and roofing materials were sampled and analyzed in this inspection.

ANALYSIS

Asbestos identification is concerned with determining the presence, type and amount of asbestos within a bulk sample, such as insulation or ceiling material. The technique for examination of bulk samples are relatively straightforward and give an unambiguous result in most cases. All bulk samples were analyzed for asbestos using polarized light microscopy coupled with dispersion staining. This method utilizes a petrographic microscope which is a transmitted polarized light instrument, widely used in the geological and chemical sciences for identification and characterization of crystallographic properties.

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<sup>1</sup>Other potentially hazardous materials were evaluated, however, none were found.



Identification of asbestos is enhanced by the use of a McCrone dispersion staining objective. The term dispersion staining is used to describe the color effects produced when a transparent, colorless particle or fiber immersed in a liquid having a refractive index near to that of the particle, is viewed under a microscope by transmitted white light. While the accuracy of refractive index measurements by the dispersion staining technique (+0.001) is not much different from that obtainable by the well-known Becke line method, it has several important advantages. Primary among them is that in a preparation of several substances, it imparts diagnostic colors and relief effects only to the specific particles which the microscopist wishes to observe or count. Other colorless particles either are not optically stained, or are stained a different color, or possess a different morphology or orientation.

#### DISCUSSIONS

The samples were obtained from throughout the building, generally following a random sampling pattern and following the EPA procedures. The results of all samples are provided in Table 1. This table gives a listing of the samples obtained within the building areas, the location from which the sample was obtained, and the results, showing the type of asbestos and the percent content. Appended to this report are mini-drawings which show the locations from which samples were obtained. Each original sample obtained has been appropriately marked with the sample number, and date sample was taken to develop a chain of custody for each sample. These samples have been archived should they be needed in the future. The specific results of the laboratory analyses for all bulk samples are included with this report.

Analyses showed that there are asbestos-containing materials in the mechanical and plumbing systems, in the fireproofing on steel beams with a significant amount of overspray on the deck, and on some of the floor areas in the form of vinyl asbestos floor tile. No asbestos was found in the acoustical ceiling tiles, either the 2' X 4' or 12" X 12" configuration, or in the acoustical plaster on the ceilings of the parking garage (second through fourth floor areas). Figures, also included with this report, are illustrative of the asbestos-containing material and not meant to be exhaustive of all locations of asbestos-containing material.

In general, none of the areas surveyed contained asbestos in a form and condition which would constitute an eminent health hazard to building occupants. Of course, whenever asbestos occurs in buildings, there is always a probability of a potential health hazard if the material is disturbed or the condition of the material changes. Boiler and mechanical rooms, which possessed the greatest concentration of asbestos (both amosite and chrysotile, generally), present a potentially greater hazard and potentially



greater liability during periods of maintenance or repair. Areas beneath the existing fireproofing and above the suspended ceiling (i.e., in the air plenum) also present a greater hazard and liability when ceiling tiles are removed such as for maintenance or new construction. It is strongly recommended that ceiling tiles only be removed for necessary and required maintenance, that work be done during off-hours, and that new construction or remodeling be deferred until control actions can be instituted.

Until such time as an appropriate abatement program is implemented, a special operations and maintenance program should be implemented. This special program is recommended in order to clean up any existing asbestos fibers previously released, to prevent future release by minimizing asbestos disturbance or damage, and monitoring the condition of asbestos-containing material. The operations and maintenance program should continue until all asbestos-containing material is removed or the building demolished. This program should alert workers and building occupants to the location of asbestos-containing materials, train custodial and maintenance personnel in proper cleaning and maintenance, implement initial and periodic cleaning using special methods (for surfacing materials and pipe and boiler insulation only), establish a process that assures asbestos-containing material is not disturbed during building repairs and renovations, and periodically re-inspect areas with asbestos-containing materials

#### RECOMMENDATIONS

Based upon this survey and the preceding analysis and discussion, it is recommended that the most appropriate method for control in non-enclosed areas is complete removal. This recommendation is based upon the apparent risk and the fact that removal removes the asbestos completely, there is no ongoing monitoring required, and no record-keeping system need be established. In addition, removal is recommended because in most cases encapsulation is only a short-term solution; in a few years, depending on the quality of the encapsulant, whatever surface was encapsulated must be encapsulated again. In the case of pipe lagging, whenever pipe damage occurs, the friable asbestos is revealed and the health hazard also exposed. Vinyl asbestos floor tile does not need to be removed since it is non-friable and does not present a health hazard in its present form.

The total amount for the removal of asbestos-containing material from steel beams and decking and from mechanical and plumbing systems (all in non-enclosed areas) is estimated at \$1,230,000. This is based upon an approximate square footage of 78,400 square feet of fireproofing and approximately 4,500 lineal feet of mechanical system and pipe lagging insulation. If the enclosed ceiling areas are included (second through fourth floor parking garage steel beams, etc.) and an additional 29,400 square feet of fire-



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proofing, and approximately 750 lineal feet of piping is involved, the additional cost for this three-floor area is estimated at \$450,000. Thus, the total cost for removal from non-enclosed areas (i.e., penthouse, floors 10 through 5, and 1) and enclosed areas (i.e., floors 2 through 4) is estimated at \$1,680,000.

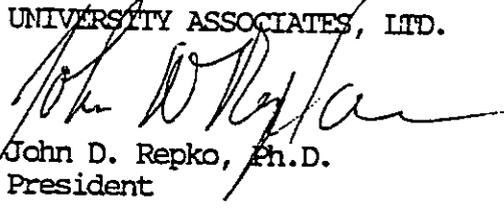
Because of the nature of the work being conducted in this building, abatement will have to be phased. That is, the contractor would only be able to work in certain portions of the building at any one time — this is taken into account in the cost estimates. The above cost also takes into account prequalification of the contractor, that all work would be done under a single contract, and that the facility would be available to the contractor in a timely manner.

Added to these construction costs are consultant design services for preparation of drawings and specifications, air monitoring and abatement contract administration, and owner-related costs associated with partial shut-down of the facility and relocation of personnel to an alternate facility. In asbestos control work design, contract administration, and air monitoring may be as high as 10 to 15% of total construction costs.

Should you have any questions about this report, methodology, analysis, recommendations, or costs, do not hesitate to contact us.

Respectfully Submitted,

UNIVERSITY ASSOCIATES, LTD.

  
John D. Repko, Ph.D.  
President

November 6, 1987

xc: Valerie Mitchell, CIH  
University Associates, Ltd.



Table 1

Results of Polarized Light Microscopy with Dispersion Staining  
Clark County Bridger Building

Sample Number	Date	Type of Sample	Result
<u>Penthouse</u>			
CCBB-1001B	10/10/87	Roofing Material	ND*
CCBB-1002B	10/10/87	Insulation, Cold Water Fire Back-up Tank	10% Amosite 65% Chrysotile
CCBB-1003B	10/10/87	Insulation, Cold Water Fire Back-up Tank	45% Amosite 20% Chrysotile
CCBB-1004B	10/10/87	Pipe Elbow	10% Chrysotile
CCBB-1005B	10/10/87	Pipe Elbow	2% Amosite 25% Chrysotile
CCBB-1006B	10/10/87	Fireproofing (An overhead structural members)	10% Chrysotile
CCBB-1007B	10/10/87	Fireproofing	15% Chrysotile
CCBB-1008B	10/10/87	Duct Tape	ND*
CCBB-1009B	10/10/87	Pipe Insulation (Straight Run)	50% Amosite 5% Chrysotile
CCBB-1010B	10/10/87	Pipe Insulation (Straight Run)	60% Amosite 10% Chrysotile
CCBB-1011B	10/10/87	Fireproofing	20% Chrysotile
CCBB-1012B	10/10/87	Fireproofing	20% Chrysotile

\*ND: No Asbestos Detected.



Table 1, Continued

Results of Polarized Light Microscopy with Dispersion Staining  
Clark County Bridger Building

Sample Number	Date	Type of Sample	Result
CCBB-1013B	10/10/87	Insulation from under metal casing on boiler	ND*
CCBB-1014B	10/10/87	Pipe Elbow Insulation	ND*
CCBB-1015B	10/10/87	Valve Cover Insulation	30% Amosite 5% Chrysotile
CCBB-1016B	10/10/87	Fireproofing	15% Chrysotile
CCBB-1017B	10/10/87	Caulking from air handler	3% Chrysotile
CCBB-1018B	10/10/87	Duct Tape	ND*
CCBB-1019B	10/10/87	Duct Tape	ND*
CCBB-1020B	10/10/87	Roof walking surface material	ND*
CCBB-1021B	10/10/87	Roofing material from south side of roof	ND*
<u>Tenth Floor</u>			
CCBB-1022B	10/10/87	Main (central) corridor, Fireproofing above susp. ceiling	15% Chrysotile
CCBB-1023B	10/10/87	Main corridor pipe elbow above susp. ceiling	20% Chrysotile

\*ND: No Asbestos Detected.



Table 1, Continued

Results of Polarized Light Microscopy with Dispersion Staining  
Clark County Bridger Building

Sample Number	Date	Type of Sample	Result
CCBB-1024B	10/10/87	Main corridor above susp. ceiling pipe insulation (straight run)	70% Amosite
CCBB-1025B	10/10/87	Stairwell (west) Floor tile	5% Chrysotile
CCBB-1026B	10/10/87	Office-NE corner (Room 1015) Fireproofing	15% Chrysotile
CCBB-1027B	10/10/87	Office-NW corner (Room 1007) Fireproofing	10% Chrysotile
CCBB-1028B	10/10/87	SW corner (Room 1027) Fireproofing	20% Chrysotile
CCBB-1029B	10/10/87	SE corner (Room 1019) Fireproofing	20% Chrysotile
CCBB-1030B	10/10/87	SE corner (Room 1019) Floor tile	<1%-1% Chrysotile
<u>Ninth Floor</u>			
CCBB-1031B	10/10/87	Main Corridor E. of elevator Fireproofing	20% Chrysotile

\*ND: No Asbestos Detected.



## UNIVERSITY ASSOCIATES, LTD.

Table 1, Continued

Results of Polarized Light Microscopy with Dispersion Staining  
Clark County Bridger Building

Sample Number	Date	Type of Sample	Result
CCBB-1032B	10/10/87	NE corner (Room 937) Fireproofing	7% Chrysotile
CCBB-1033B	10/10/87	NW corner (Room 907) Fireproofing	10% Chrysotile
CCBB-1034B	10/10/87	SW corner (Room 912) Fireproofing	1% Tremolite 10% Chrysotile
CCBB-1035B	10/10/87	SE corner (Room 928) Fireproofing	<1% Chrysotile
CCBB-1036B	10/10/87	NE corner (Room 937) Floor tile Kitchen area	ND*
<u>Eighth Floor</u>			
CCBB-1037B	10/10/87	Main corridor E. of elevator above susp. ceiling - Fireproofing	15% Chrysotile
CCBB-1038B	10/10/87	NE corner of floor-Attorney's office Fireproofing above ceiling	15% Chrysotile

\*ND: No Asbestos Detected.



Table 1, Continued

Results of Polarized Light Microscopy with Dispersion Staining  
Clark County Bridger Building

Sample Number	Date	Type of Sample	Result
CCBB-1039B	10/10/87	NW corner of floor-Attorney's office Fireproofing above ceiling	15% Chrysotile
CCBB-1040B	10/10/87	SW corner of floor-Attorney's office Fireproofing above ceiling	15% Chrysotile
CCBB-1041B	10/10/87	SE corner Attorney's office Fireproofing above ceiling	20% Chrysotile
<u>Seventh Floor</u>			
CCBB-1042B	10/10/87	E. of Elevator Fireproofing above ceiling	20% Chrysotile
CCBB-1043B	10/10/87	NE corner Fireproofing above ceiling	15% Chrysotile
CCBB-1044B	10/10/87	SE corner (com- puter room) Fireproofing above ceiling	15% Chrysotile
CCBB-1045B	10/10/87	SW corner Fireproofing above ceiling	20% Chrysotile

\*ND: No Asbestos Detected.



Table 1, Continued

Results of Polarized Light Microscopy with Dispersion Staining  
Clark County Bridger Building

Sample Number	Date	Type of Sample	Result
CCBB-1046B	10/10/87	NW corner Fireproofing above ceiling	20% Chrysotile
CCBB-1047B	10/10/87	SE corner (com- puter room) Floor tile	5% Chrysotile
CCBB-1048B	10/10/87	NW corner Floor tile	1% Chrysotile
<u>Sixth Floor</u>			
CCBB-1049B	10/10/87	Main corridor W. of elevator Fireproofing above susp. ceiling	15% Chrysotile
CCBB-1050B	10/10/87	SW corner of floor (Room 630) Fireproofing above susp. ceiling	10% Chrysotile
CCBB-1051B	10/10/87	NW corner of floor (Room 625) Fireproofing above ceiling	15% Chrysotile
CCBB-1052B	10/10/87	NE corner (Room 611) Fireproofing above ceiling	15% Chrysotile

\*ND: No Asbestos Detected.



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Table 1, Continued

Results of Polarized Light Microscopy with Dispersion Staining  
Clark County Bridger Building

Sample Number	Date	Type of Sample	Result
CCBB-1053B	10/10/87	SE corner (Room 610) Fireproofing above ceiling	20% Chrysotile
<u>Fifth Floor</u>			
CCBB-1054B	10/10/87	Men's Restroom (Room 513) Pipe elbow insulation	35% Chrysotile
CCBB-1055B	10/10/87	Men's Restroom (Room 514) Fireproofing above ceiling	15% Chrysotile
CCBB-1056B	10/10/87	Room 513 Pipe insulation from straight sect.	50% Amosite 5% Chrysotile
CCBB-1057B	10/10/87	Room 513 Suspended ceiling material (2' X 4 panels)	ND*
CCBB-1058B	10/10/87	Lobby near ele- vator-12" X 12" ceiling tile material	ND*
CCBB-1059B	10/10/87	Room 520 - NW corner of floor Fireproofing above ceiling	20% Chrysotile

\*ND: No Asbestos Detected.



Table 1, Continued

Results of Polarized Light Microscopy with Dispersion Staining  
Clark County Bridger Building

Sample Number	Date	Type of Sample	Result
CCBB-1060B	10/10/87	SE corner-near Room 509 (1' X 1') ceiling tile sample	ND*
<u>Fourth Floor Parking Area</u>			
CCBB-1061B	10/10/87	Sprayed on ceiling plaster near space #93	ND*
CCBB-1062B	10/10/87	Fireproofing - above ceiling near space #93	15% Chrysotile
CCBB-1063B	10/10/87	Chiller room Pipe insulation	45% Amosite
CCBB-1064B	10/10/87	Chiller room Pipe insulation	50% Amosite
CCBB-1065B	10/10/87	Chiller room Pipe elbow mud	25% Chrysotile
<u>First Floor</u>			
CCBB-1066B	10/10/87	Janitorial closet W of main entrance Floor tile	ND*

\*ND: No Asbestos Detected.



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Table 1, Continued

Results of Polarized Light Microscopy with Dispersion Staining  
Clark County Bridger Building

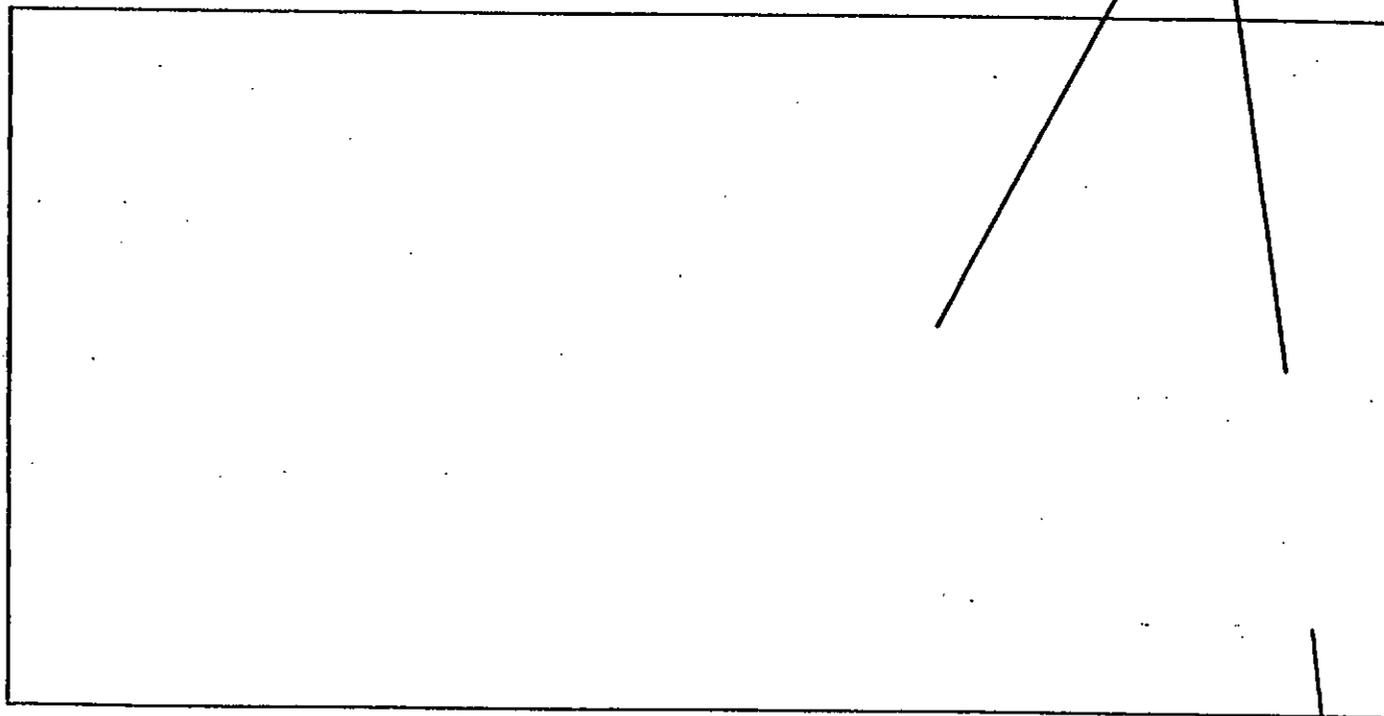
Sample Number	Date	Type of Sample	Result
CCBB-1067B	10/10/87	Rom 106 Ceiling tile (This ceiling in room 106, room 110, & in auditorium of Commissioner's Hearing Chambers.)	ND*
CCBB-1068B	10/10/87	Bottom of west stairwell Fireproofing	10% Chrysotile

\*ND: No Asbestos Detected.



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1068 SOUTHWEST STAIRWELL  
1067 CONFERENCE ROOM



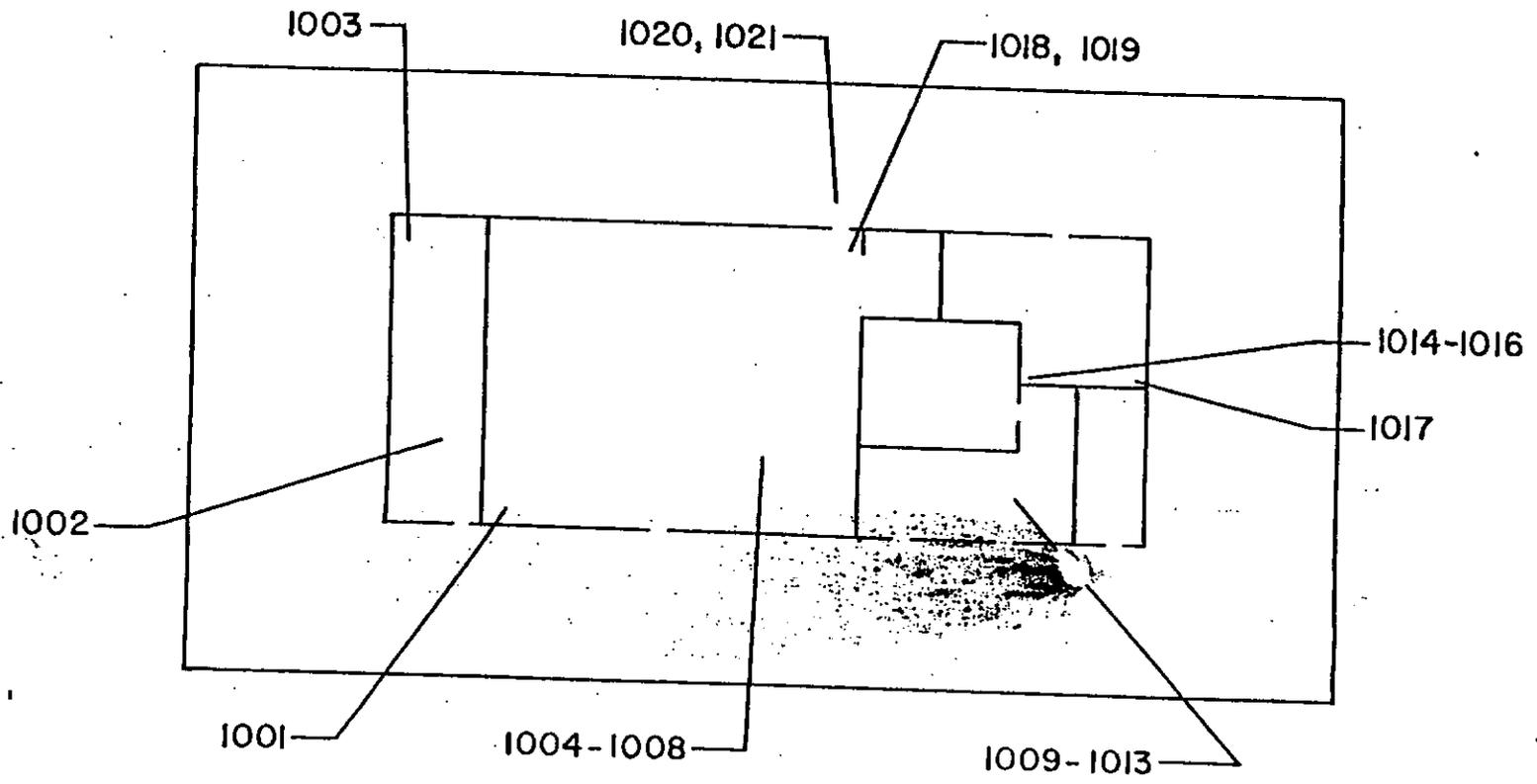
1066 JANITORS CLOSET

SAMPLE LAYOUT—1ST FLOOR



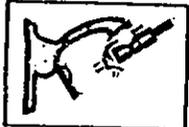


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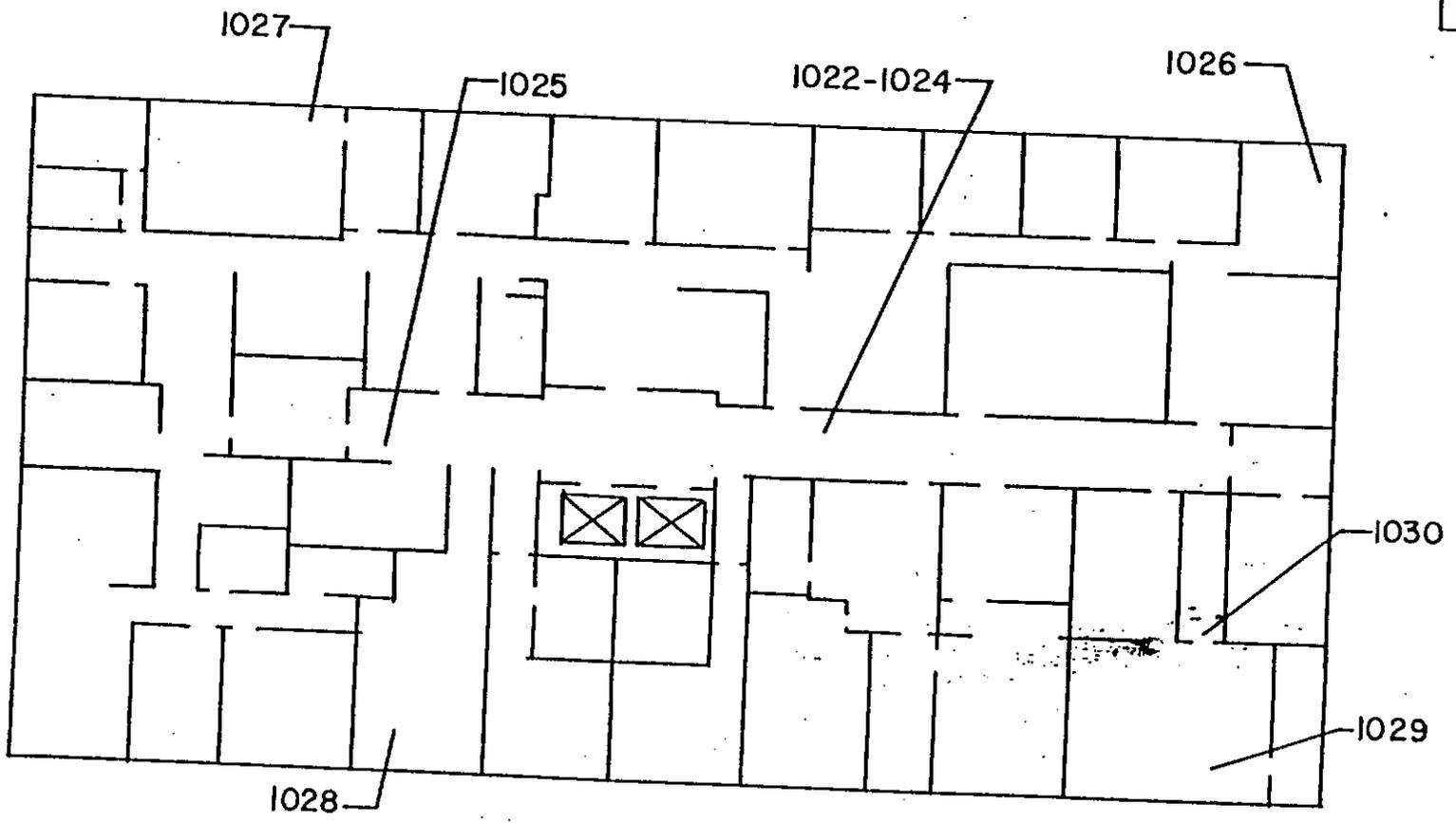


SAMPLE LAYOUT - PENTHOUSE





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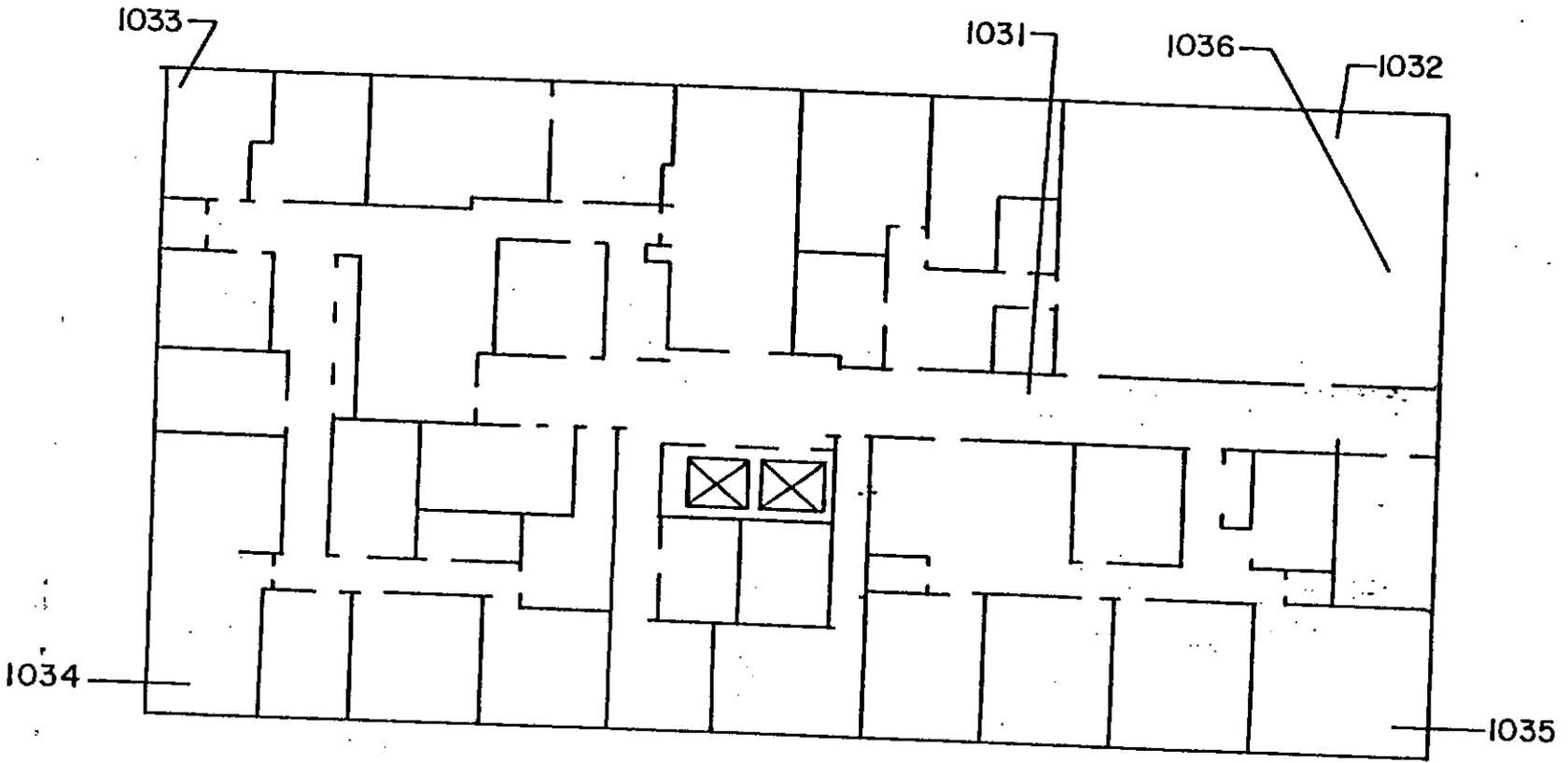


SAMPLE LAYOUT-10TH FLOOR





UNIVERSITY ASSOCIATES, LTD.

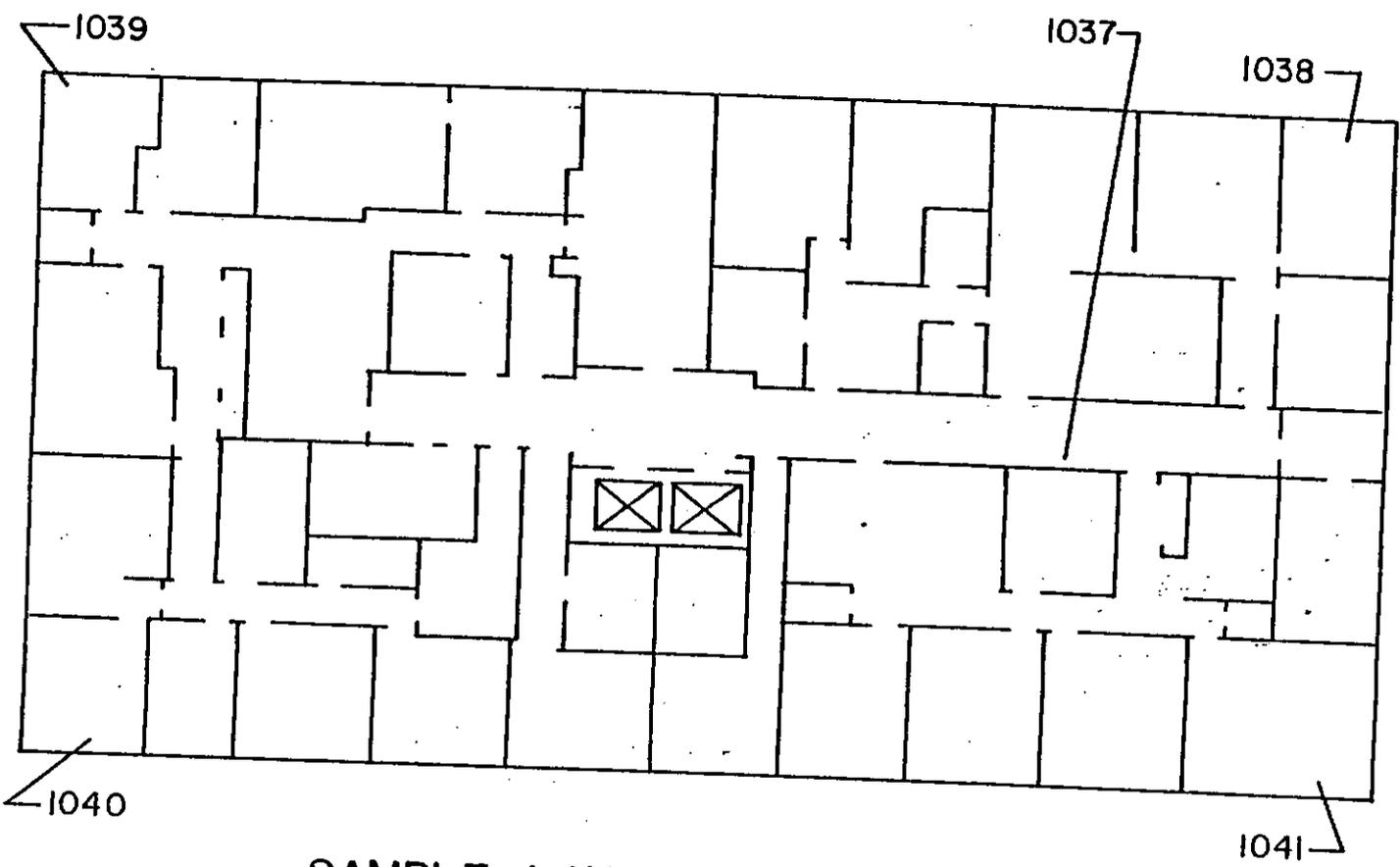


SAMPLE LAYOUT - 9TH FLOOR





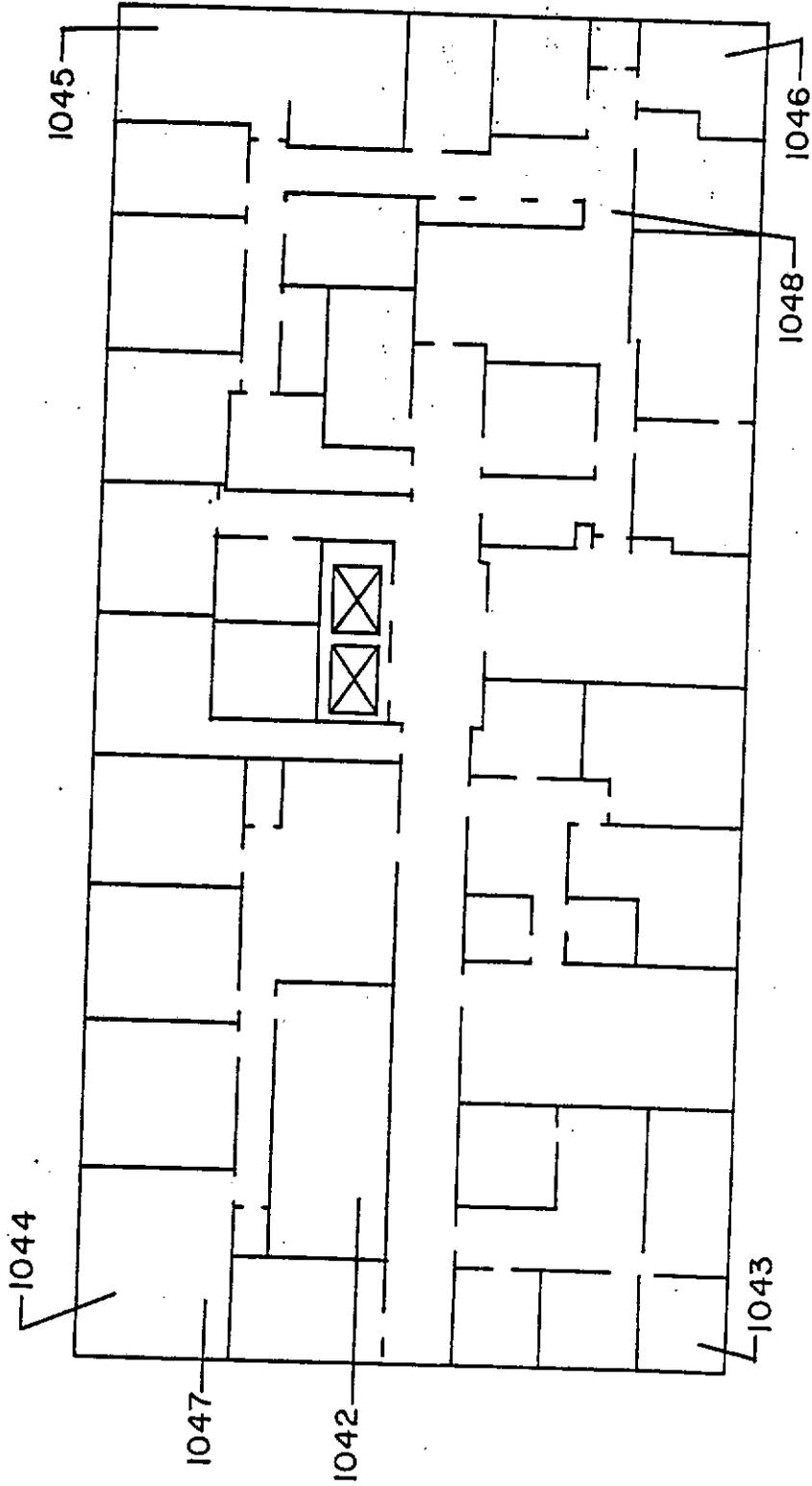
UNIVERSITY ASSOCIATES, LTD.



SAMPLE LAYOUT - 8TH FLOOR



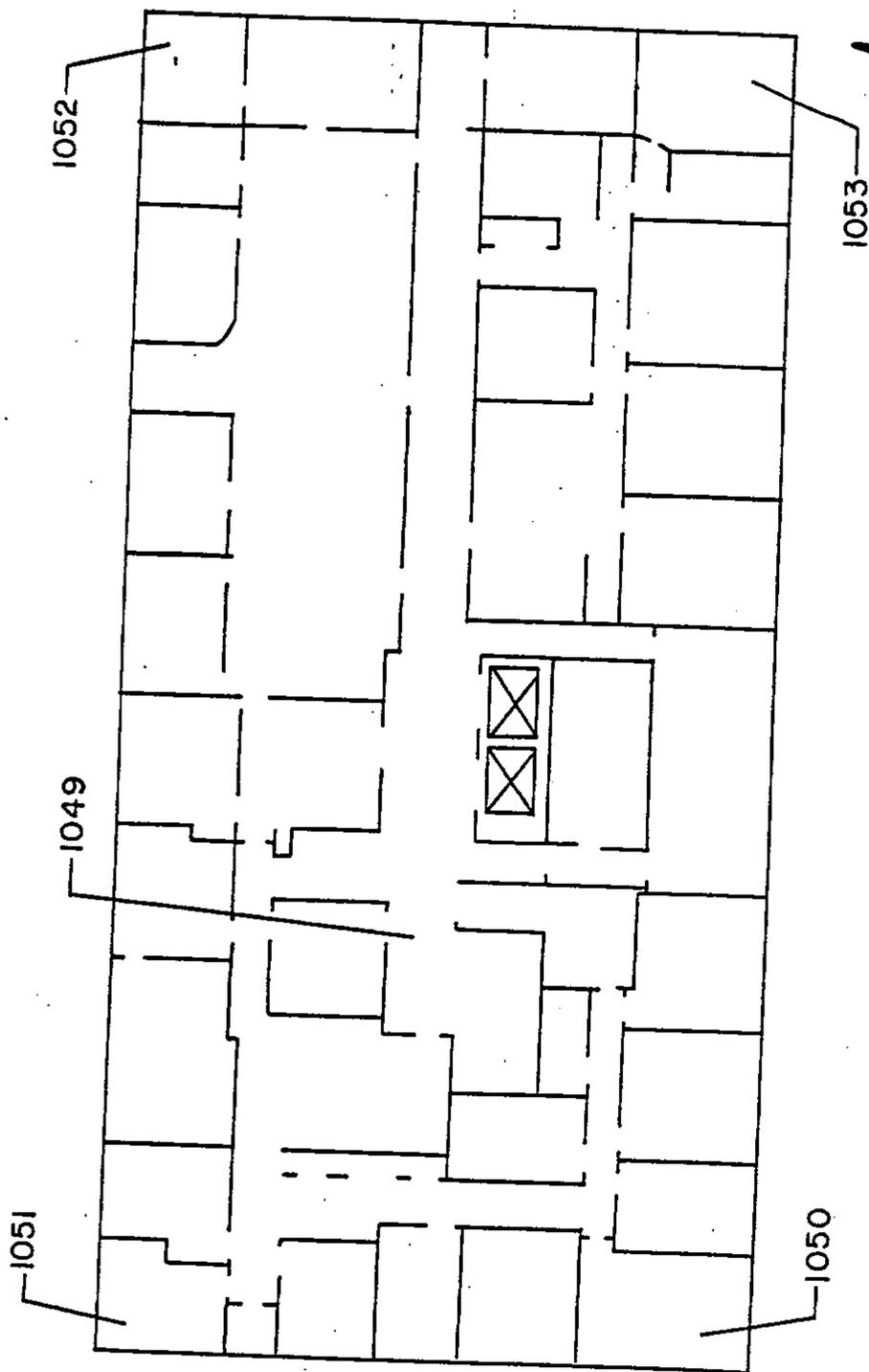
UNIVERSITY ASSOCIATES, LTD.



SAMPLE LAYOUT -- 7TH FLOOR



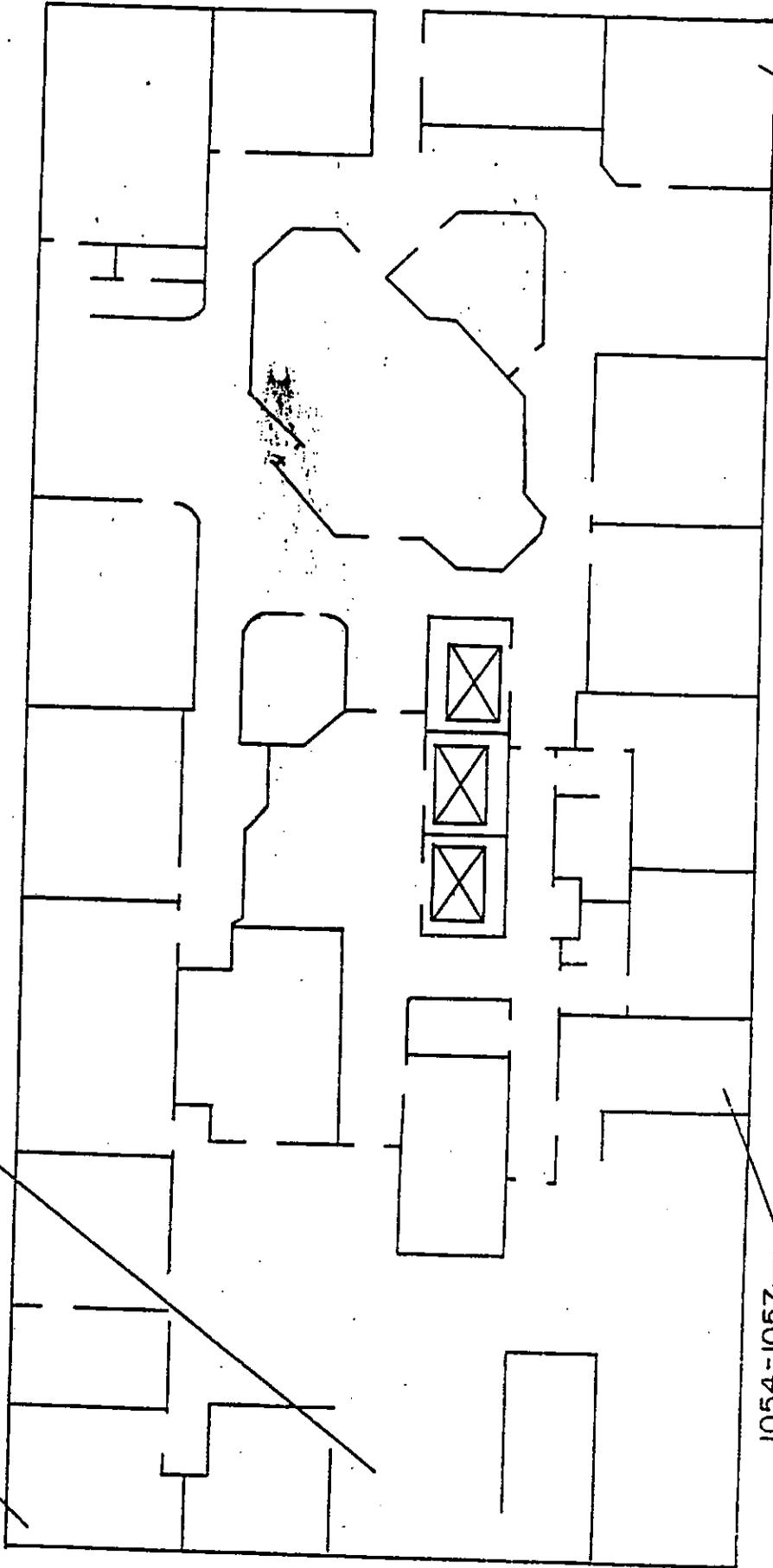
UNIVERSITY ASSOCIATES, LTD.



SAMPLE LAYOUT - 6TH FLOOR



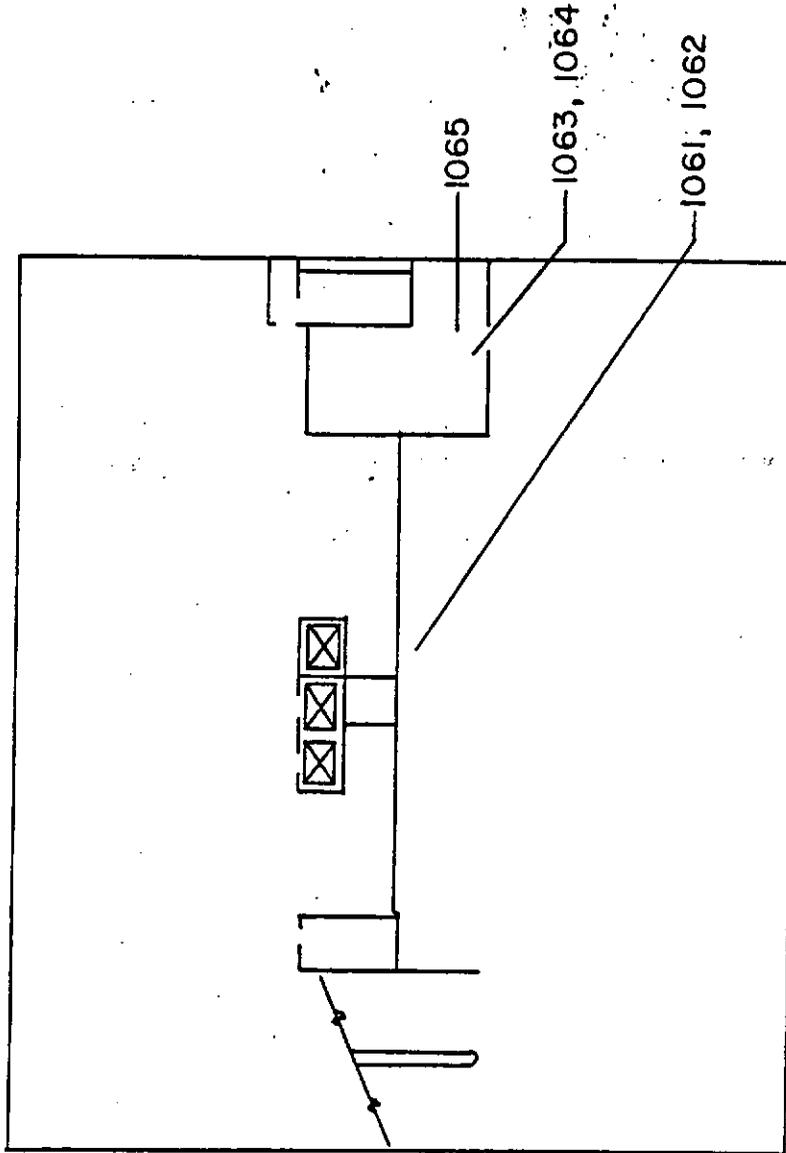
UNIVERSITY ASSOCIATES, LTD.



SAMPLE LAYOUT - 5TH FLOOR



UNIVERSITY ASSOCIATES, LTD.



SAMPLE LAYOUT - 4TH FLOOR

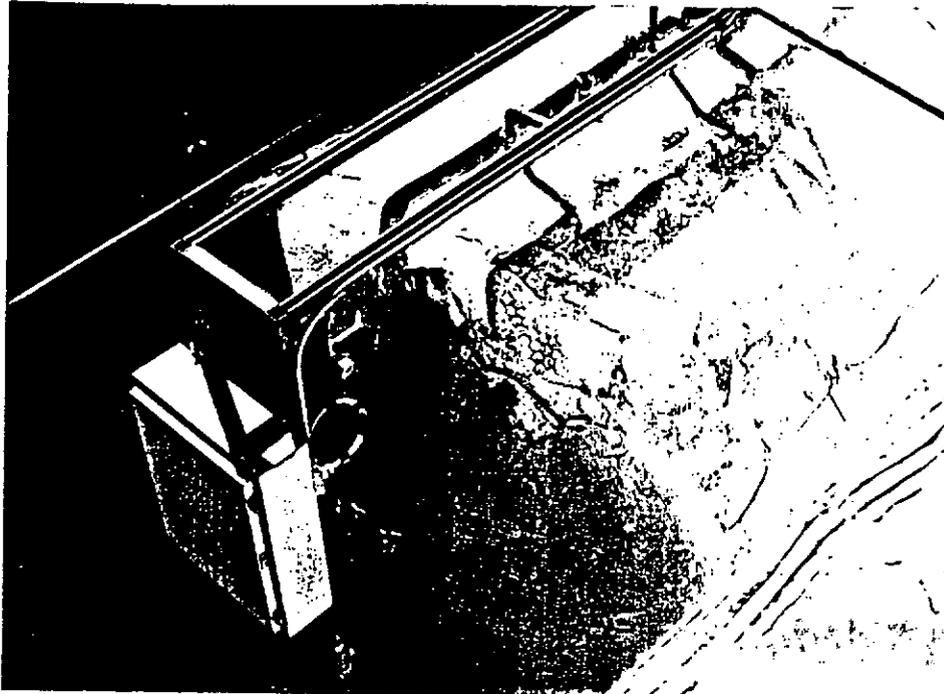


Figure 1. Penthouse Mechanical Area: Top View of Damaged Water Storage Tank Insulation.

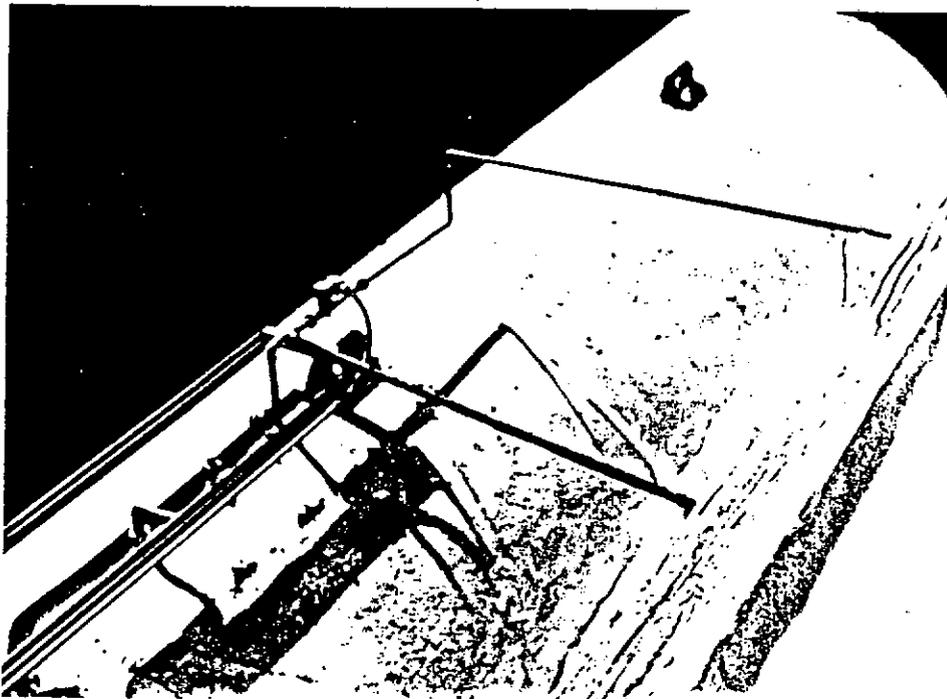


Figure 2. Penthouse Mechanical Area: Top View of Damaged Water Storage Tank Insulation.



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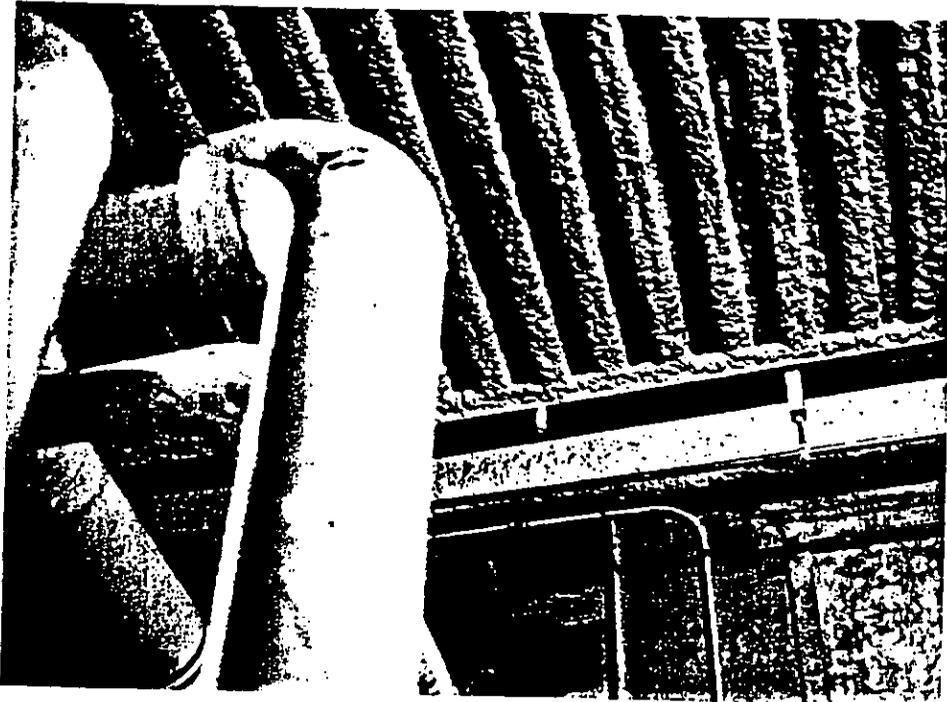


Figure 3. Penthouse Mechanical Room: View of Piping Insulation and Ceiling Deck Fireproofing.

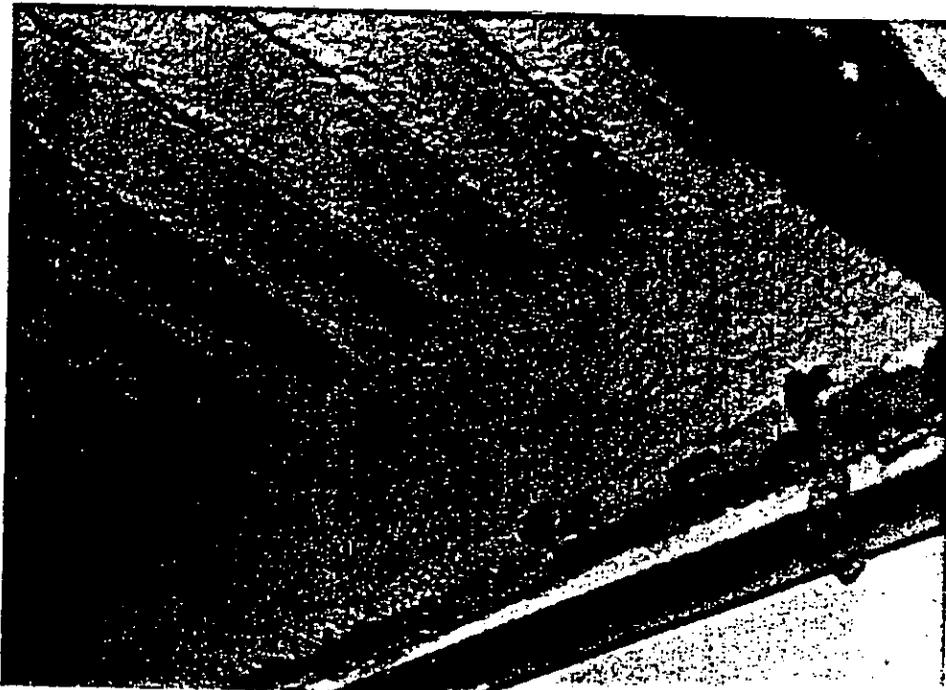


Figure 4. Penthouse Mechanical Room: View of Ceiling Deck Fireproofing

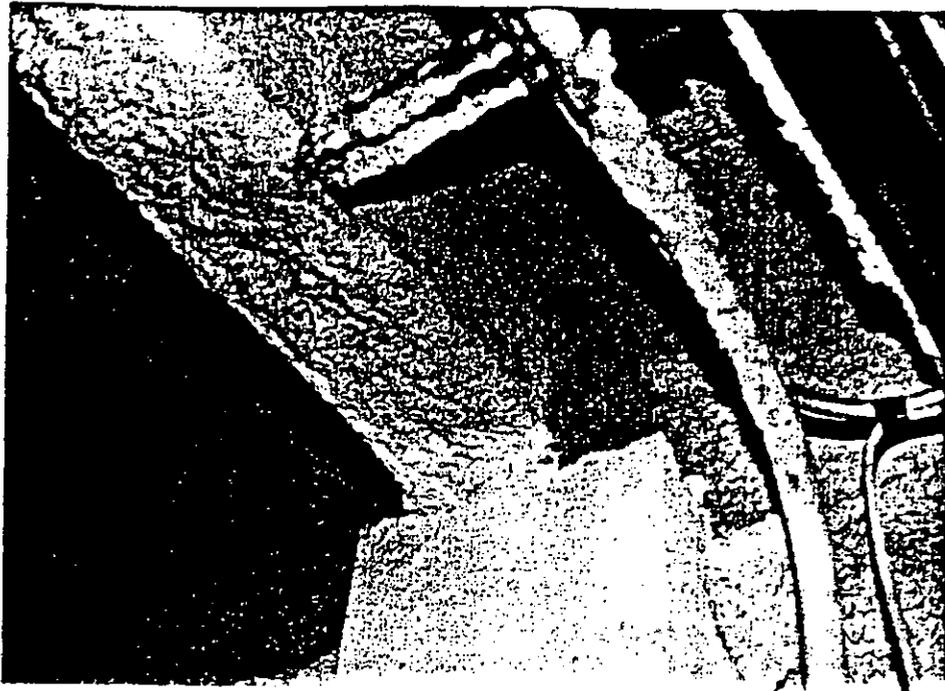


Figure 5. Penthouse Mechanical Room: View of Ceiling Deck Fireproofing

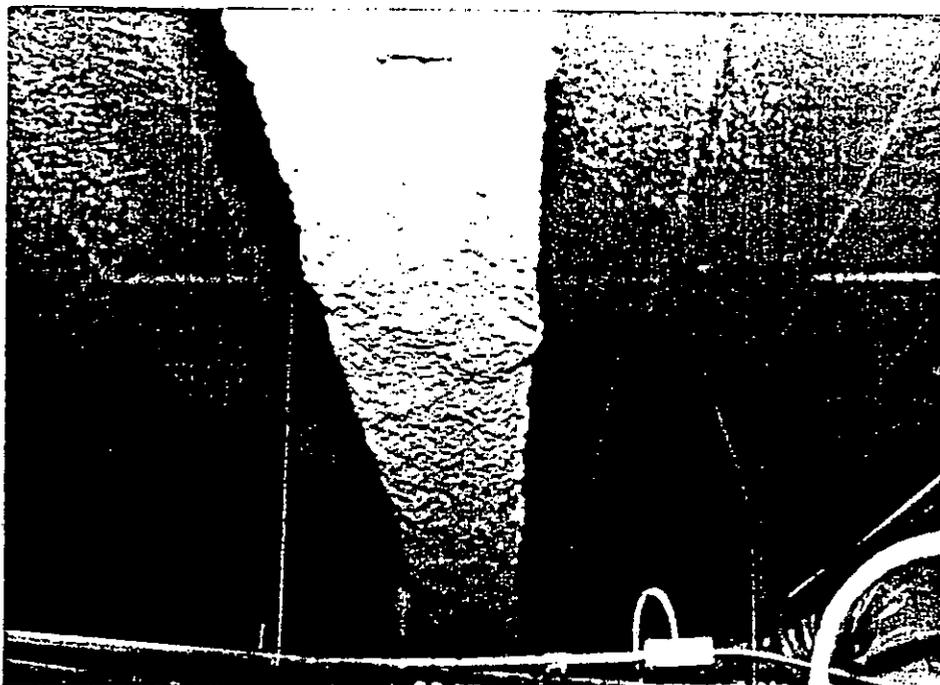


Figure 6. Typical Fireproofing on Structural Members With Over-spray on Associated Surfaces (Located Above Suspended Ceiling Panels).

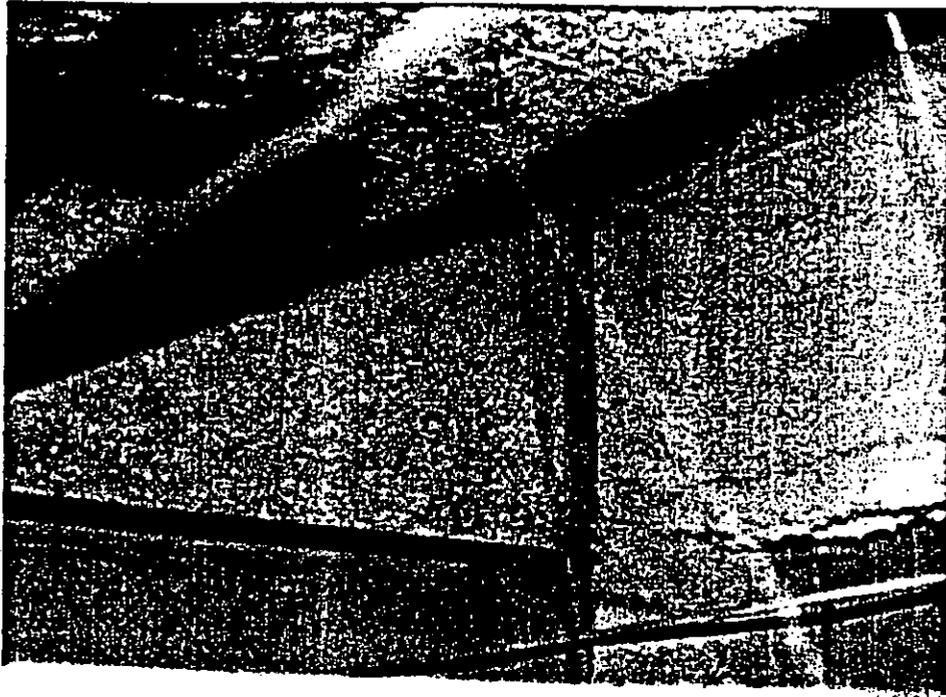


Figure 7. Typical Fireproofing on Structural Members With Over-spray on Associated Surfaces (Located Above Suspended Ceiling Panels).

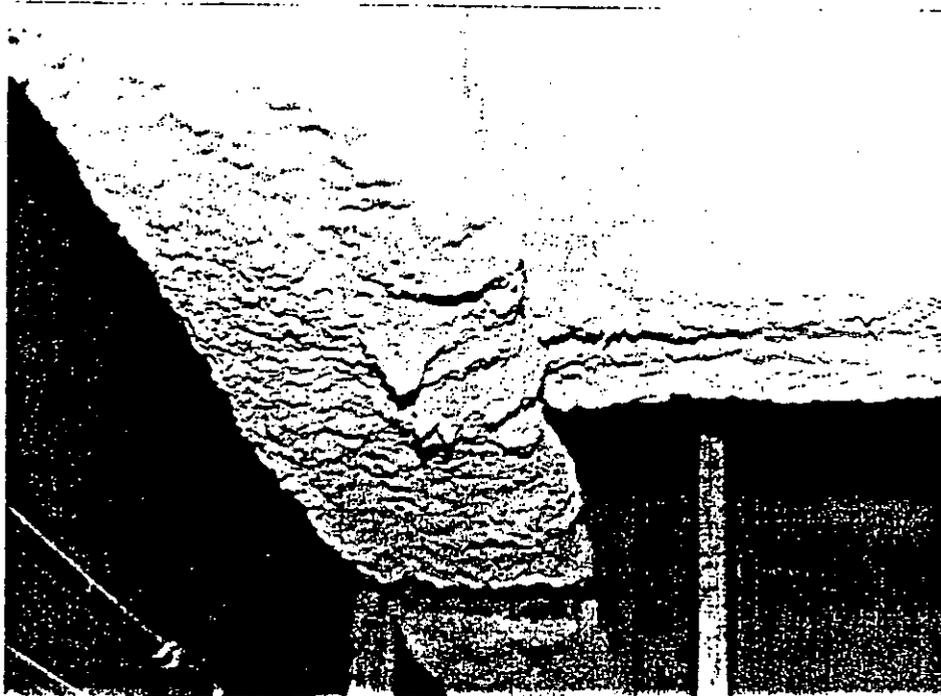


Figure 8. Typical Fireproofing on Structural Members (Located Above Suspended Ceiling Panels).

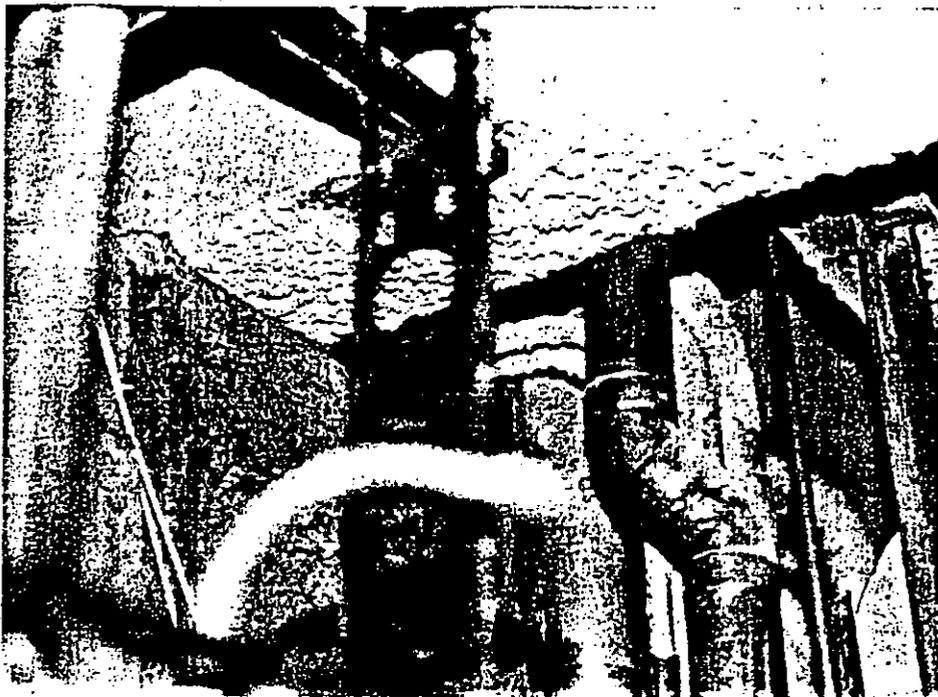


Figure 9. Typical Fireproofing on Structural Members With Over-spray on Associated Surfaces (Located Above Suspended Ceiling Panels).

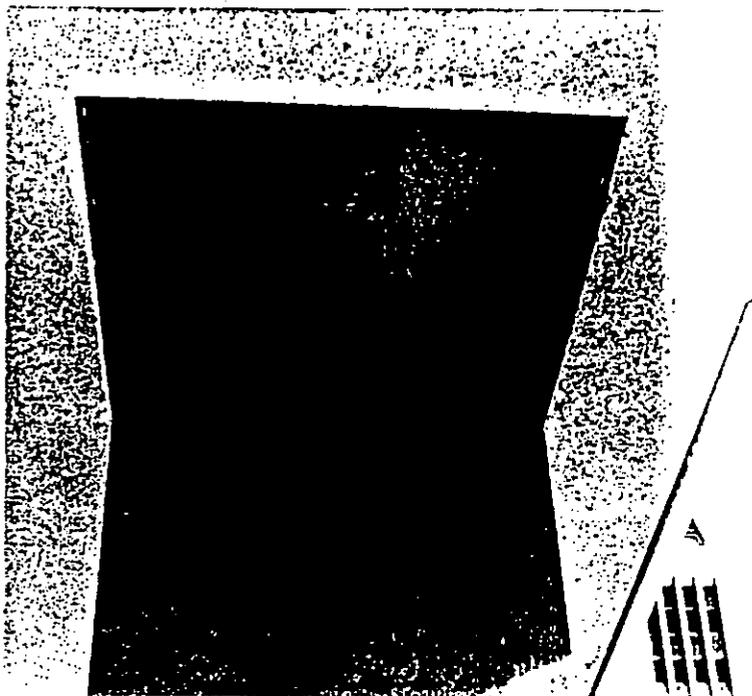
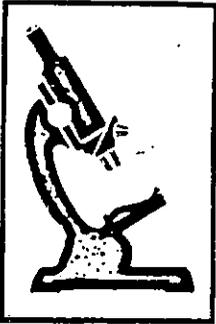


Figure 10. Fourth Floor Parking Area: View Through Ceiling Access Door of Fireproofing on Structural Member.



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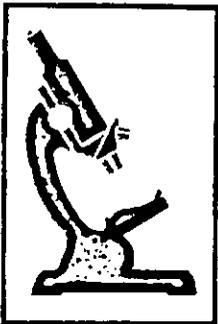
TO: Clark County Bridger Building  
225 Bridger Avenue  
Las Vegas, Nevada 89155

Sample Identification	CCBB-1001B	CCBB-1002B	CCBB-1003B
Laboratory Code Number	5257	5258	5259
Stereomicroscope Examination			
Is sample homogenous?	No	Yes	Yes
Does it contain layers?	Yes	No	No
Does it contain fibers?	No	Yes	Yes
Gross sample color.	black	white	white
Polarized Light Analysis			
Type of Asbestos Present 1 Amosite 2 Chrysotile 3 Crocidolite 4 Other, specify	None Detected	1 - 10% 2 - 65%	1 - 45% 2 - 20%
Total Percent Asbestos	0%	75%	65%
Other Fibrous Material 1 Fibrous glass 2 Cellulose 3 Synthetic 4 Other, specify	2 - <1%	1 - 2%	1 - 15% 2 - 5%
Nonfibrous Material 1 Calcite 2 Gypsum 3 Quartz 4 Other, specify	Clay - 1% Binder - 99%	Diatoms - 15% Binders - 8%	Clay and Binders - 15%

Analyst Juan Garcia

Date 10/15/87

Comments 1001B contained a piece of metal as one layer.



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TO: Clark County Bridger Building  
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Sample Identification	CCBB-1004B	CCBB-1005B	CCBB-1006B
Laboratory Code Number	5260	5261	5262
Stereomicroscope Examination			
Is sample homogenous?	Yes	No	Yes
Does it contain layers?	No	No	No
Does it contain fibers?	Yes	Yes	No
Gross sample color.	off white	white/off white	brown
Polarized Light Analysis			
Type of Asbestos Present 1 Amosite 2 Chrysotile 3 Crocidolite 4 Other, specify	2 - 10%	1 - 2% 2 - 25%	2 - 10%
Total Percent Asbestos	10%	27%	10%
Other Fibrous Material 1 Fibrous glass 2 Cellulose 3 Synthetic 4 Other, specify	1 - 50%	1 - 35%	1 - 1%
Nonfibrous Material 1 Calcite 2 Gypsum 3 Quartz 4 Other, specify	Diatoms - 25% Clay and Binders - 15%	Diatoms - 30% Clay and Binders - 13%	Mica - 40% Clay and Binders - 49%

Analyst Juan Garcia

Date 10/15/87

Comments 1005B contains a piece of styrofoam.



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TO: Clark County Bridger Building  
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Sample Identification	CCBB-1007B	CCBB-1008B	CCBB-1009B
Laboratory Code Number	5263	5264	5265
Stereomicroscope Examination			
Is sample homogenous?	Yes	Yes	Yes
Does it contain layers?	No	No	No
Does it contain fibers?	Yes	Yes	Yes
Gross sample color.	brown	off white	white
Polarized Light Analysis			
Type of Asbestos Present 1 Amosite 2 Chrysotile 3 Crocidolite 4 Other, specify	2 - 15%	None Detected	1 - 50% 2 - 5%
Total Percent Asbestos	15%	0%	55%
Other Fibrous Material 1 Fibrous glass 2 Cellulose 3 Synthetic 4 Other, specify		2 - 100%	2 - 1%
Nonfibrous Material 1 Calcite 2 Gypsum 3 Quartz 4 Other, specify	Mica - 35% Clays and Binders - 50%		Binders - 44%

Analyst Juan Garcia

Date 10/15/87

Comments \_\_\_\_\_

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TO: Clark County Bridger Building

225 Bridger Avenue

Las Vegas, Nevada 89155

Sample Identification	CCBB-1010B	CCBB-1011B	CCBB-1012B
Laboratory Code Number	5266	5267	5268
	Stereomicroscope Examination		
Is sample homogenous?	Yes	Yes	Yes
Does it contain layers?	No	No	No
Does it contain fibers?	Yes	Yes	Yes
Gross sample color.	white	brown	brown
	Polarized Light Analysis		
Type of Asbestos Present 1 Amosite 2 Chrysotile 3 Crocidolite 4 Other, specify	1 - 60% 2 - 10%	2 - 20%	2 - 20%
Total Percent Asbestos	70%	20%	20%
Other Fibrous Material 1 Fibrous glass 2 Cellulose 3 Synthetic 4 Other, specify			
Nonfibrous Material 1 Calcite 2 Gypsum 3 Quartz 4 Other, specify	Clay and Binders - 30%	Mica - 35% Binders - 45%	Mica - 40% Binders - 40%

Analyst Juan Garcia

Date 10/15/87

Comments \_\_\_\_\_  
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Occupational and Environmental Health: Laboratory Services

TO: Clark County Bridger Building  
225 Bridger Avenue  
Las Vegas, Nevada 89155

Sample Identification	CCBB-1013B	CCBB-1014B	CCBB-1015B
Laboratory Code Number	5269	5270	5271
Stereomicroscope Examination			
Is sample homogenous?	No	No	Yes
Does it contain layers?	No	No	No
Does it contain fibers?	Yes	No	Yes
Gross sample color.	off white	white	lt. brown
Polarized Light Analysis			
Type of Asbestos Present 1 Amosite 2 Chrysotile 3 Crocidolite 4 Other, specify	None Detected	None Detected	1 - 30% 2 - 5%
Total Percent Asbestos	0%	0%	35%
Other Fibrous Material 1 Fibrous glass 2 Cellulose 3 Synthetic 4 Other, specify	1 - 100%		1 - 15% 2 - 15%
Nonfibrous Material 1 Calcite 2 Gypsum 3 Quartz 4 Other, specify		Styrofoam-100%	Diatoms - 10% Clay and Binders - 25%

Analyst Juan Garcia

Date 10/15/87

Comments 1013B contained some black non-fibrous material. 1014B contains some brown fibrous material as a contaminant over the styrofoam. Contaminant contains about 25 - 30% chrysotile and at least 5% amosite.



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TO: Clark County Bridger Building  
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Sample Identification	CCBB-1016B	CCBB-1017B	CCBB-1018B
Laboratory Code Number	5272	5273	5274
Stereomicroscope Examination			
Is sample homogenous?	Yes	No	Yes
Does it contain layers?	No	Yes	No
Does it contain fibers?	Yes	Yes	Yes
Gross sample color.	brown	off white/black	white
Polarized Light Analysis			
Type of Asbestos Present 1 Amosite 2 Chrysotile 3 Crocidolite 4 Other, specify	2 - 15%	2 - 3%	None Detected
Total Percent Asbestos	15%	3%	0%
Other Fibrous Material 1 Fibrous glass 2 Cellulose 3 Synthetic 4 Other, specify			2 - 99%
Nonfibrous Material 1 Calcite 2 Gypsum 3 Quartz 4 Other, specify	Mica - 40% Binders - 45%	Clay - 90% Binders - 7%	Binders - 1%

Analyst Juan Garcia

Date 10/15/87

Comments 1017B contains 10% chrysotile in black felt material.



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TO: Clark County Bridger Building  
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Sample Identification	CCBB-1019B	CCBB-1040B	CCBB-1041B
Laboratory Code Number	5275	5285	5286
Stereomicroscope Examination			
Is sample homogenous?	Yes	Yes	Yes
Does it contain layers?	No	No	No
Does it contain fibers?	Yes	Yes	Yes
Gross sample color.	lt. brown	brown	lt. brown
Polarized Light Analysis			
Type of Asbestos Present 1 Amosite 2 Chrysotile 3 Crocidolite 4 Other, specify	None Detected	2 - 15%	2 - 20%
Total Percent Asbestos		15%	20%
Other Fibrous Material 1 Fibrous glass 2 Cellulose 3 Synthetic 4 Other, specify	2 - 99%		
Nonfibrous Material 1 Calcite 2 Gypsum 3 Quartz 4 Other, specify	Binders - 1%	Mica - 30% Clay and Binders - 40%	Mica - 25% Clay and Binders - 55%

Analyst Juan Garcia

Date 10/15/87 and 10/16/87

Comments \_\_\_\_\_  
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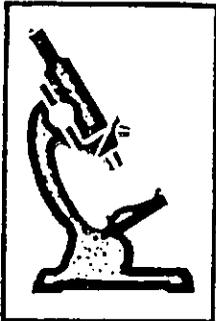
TO: Clark County Bridger Building  
225 Bridger Avenue  
Las Vegas, Nevada 89155

Sample Identification	CCBB-1042B	CCBB-1043B	CCBB-1044B
Laboratory Code Number	5287	5288	5289
Stereomicroscope Examination			
Is sample homogenous?	Yes	Yes	Yes
Does it contain layers?	No	No	No
Does it contain fibers?	Yes	Yes	Yes
Gross sample color.	brown	brown	brown
Polarized Light Analysis			
Type of Asbestos Present 1 Amosite 2 Chrysotile 3 Crocidolite 4 Other, specify	2 - 20%	2 - 15%	2 - 15%
Total Percent Asbestos	20%	15%	15%
Other Fibrous Material 1 Fibrous glass 2 Cellulose 3 Synthetic 4 Other, specify			
Nonfibrous Material 1 Calcite 2 Gypsum 3 Quartz 4 Other, specify	Mica - 30% Clay and Binders - 50%	Mica - 40% Clay and Binders - 45%	Mica - 35% Clay and Binders - 50%

Analyst Juan Garcia

Date 10/16/87

Comments \_\_\_\_\_  
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TO: Clark County Bridger Building  
225 Bridger Avenue  
Las Vegas, Nevada 89155

Sample Identification	CCBB-1045B	CCBB-1046B	CCBB-1047B
Laboratory Code Number	5290	5291	5292
Stereomicroscope Examination			
Is sample homogenous?	Yes	Yes	No
Does it contain layers?	No	No	Yes
Does it contain fibers?	Yes	Yes	No
Gross sample color.	brown	brown	tan/black
Polarized Light Analysis			
Type of Asbestos Present 1 Amosite 2 Chrysotile 3 Crocidolite 4 Other, specify	2 - 20%	2 - 20%	2 - 5%
Total Percent Asbestos	20%	20%	5%
Other Fibrous Material 1 Fibrous glass 2 Cellulose 3 Synthetic 4 Other, specify			
Nonfibrous Material 1 Calcite 2 Gypsum 3 Quartz 4 Other, specify	Mica - 40% Clay and Binders - 40%	Mica - 30% Clay and Binders - 50%	1 - 40% Clay and Binders - 55%

Analyst Juan Garcia

Date 10/16/87

Comments 1047B contains 30% chrysotile in adhesive.



# UNIVERSITY ASSOCIATES, LTD.

Occupational and Environmental Health: Laboratory Services

TO: Clark County Bridger Building  
225 Bridger Avenue  
Las Vegas, Nevada 89155

Sample Identification	CCBB-1048B	CCBB-1049B	CCBB-1020B
Laboratory Code Number	5293	5294	5295
Stereomicroscope Examination			
Is sample homogenous?	No	Yes	Yes
Does it contain layers?	Yes	No	No (Paint)
Does it contain fibers?	No	Yes	Yes
Gross sample color.	tan/black	lt. brown	black
Polarized Light Analysis			
Type of Asbestos Present 1 Amosite 2 Chrysotile 3 Crocidolite 4 Other, specify	2 - 1%	2 - 15%	None Detected
Total Percent Asbestos	1%	15%	0%
Other Fibrous Material 1 Fibrous glass 2 Cellulose 3 Synthetic 4 Other, specify	2 - 1%		2 - 15%
Nonfibrous Material 1 Calcite 2 Gypsum 3 Quartz 4 Other, specify	1 - 40% Clay and Binders - 58%	Mica - 30% Clay and Binders - 55%	Mica - 25% Clay - 30% Binders - 30%

Analyst Juan Garcia

Date 10/16/87

Comments 1048B contains 10% chrysotile in adhesive.



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TO: Clark County Bridger Building  
225 Bridger Avenue  
Las Vegas, Nevada 89155

Sample Identification	CCBB-1021B	CCBB-1022B	CCBB-1023B
Laboratory Code Number	5296	5297	5298
Stereomicroscope Examination			
Is sample homogenous?	Yes	Yes	Yes
Does it contain layers?	No (Metal)	No	No
Does it contain fibers?	No	Yes	Yes
Gross sample color.	black	brown	off white
Polarized Light Analysis			
Type of Asbestos Present 1 Amosite 2 Chrysotile 3 Crocidolite 4 Other, specify	None Detected	2 - 15%	2 - 20%
Total Percent Asbestos		15%	20%
Other Fibrous Material 1 Fibrous glass 2 Cellulose 3 Synthetic 4 Other, specify	2 - <1%		1 - 35%
Nonfibrous Material 1 Calcite 2 Gypsum 3 Quartz 4 Other, specify	Clay - 25% Binders - 75%	Mica - 35% Clay and Binders - 50%	Diatoms - 30% Clay and Binders - 15%

Analyst Juan Garcia

Date 10/16/87

Comments \_\_\_\_\_  
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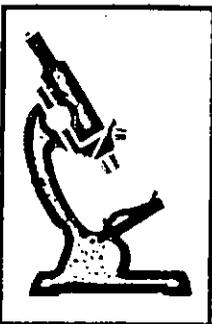
TO: Clark County Bridger Building  
225 Bridger Avenue  
Las Vegas, Nevada 89155

Sample Identification	CCBB-1024B	CCBB-1025B	CCBB-1026B
Laboratory Code Number	5299	5300	5301
Stereomicroscope Examination			
Is sample homogenous?	Yes	No	Yes
Does it contain layers?	No	Yes	No
Does it contain fibers?	Yes	No	Yes
Gross sample color.	white	off white/black	lt. brown
Polarized Light Analysis			
Type of Asbestos Present 1 Amosite 2 Chrysotile 3 Crocidolite 4 Other, specify	1 - 70%	2 - 5%	2 - 15%
Total Percent Asbestos	70%	5%	15%
Other Fibrous Material 1 Fibrous glass 2 Cellulose 3 Synthetic 4 Other, specify	2 - 1%	2 - <1%	
Nonfibrous Material 1 Calcite 2 Gypsum 3 Quartz 4 Other, specify	Binders - 29%	1 - 45% Clay and Binders - 50%	Mica - 35% Clay - 50%

Analyst Juan Garcia

Date 10/16/87

Comments 1025B contains 7% chrysotile in adhesive.



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Occupational and Environmental Health: Laboratory Services

TO: Clark County Bridger Building  
225 Bridger Avenue  
Las Vegas, Nevada 89155

Sample Identification	CCBB-1027B	CCBB-1028B	CCBB-1029B
Laboratory Code Number	5302	5303	5304
Stereomicroscope Examination			
Is sample homogenous?	Yes	Yes	Yes
Does it contain layers?	No	No	No
Does it contain fibers?	Yes	Yes	Yes
Gross sample color.	lt. brown	lt. brown	lt. brown
Polarized Light Analysis			
Type of Asbestos Present 1 Amosite 2 Chrysotile 3 Crocidolite 4 Other, specify	2 - 10%	2 - 20%	2 - 20%
Total Percent Asbestos	10%	20%	20%
Other Fibrous Material 1 Fibrous glass 2 Cellulose 3 Synthetic 4 Other, specify	2 - <1%		
Nonfibrous Material 1 Calcite 2 Gypsum 3 Quartz 4 Other, specify	Mica - 35% Clay - 55%	Mica - 30% Clay and Binders - 50%	Mica - 40% Clay and Binders - 40%

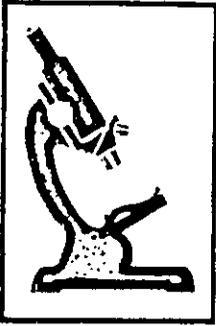
Analyst Juan Garcia

Date 10/16/87

Comments \_\_\_\_\_

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*Occupational and Environmental Health: Laboratory Services*

To: Clark County Bridger Building

225 Bridger Avenue

Las Vegas, Nevada 89155

Sample Identification	CCBB-1030B	CCBB-1032B	CCBB-1033B
Laboratory Code Number	5305	5306	5307
Stereomicroscope Examination			
Is sample homogenous?	No	Yes	Yes
Does it contain layers?	Yes	No	No
Does it contain fibers?	No	Yes	Yes
Gross sample color.	white/brown	white	white
Polarized Light Analysis			
Type of Asbestos Present 1 Amosite 2 Chrysotile 3 Crocidolite 4 Other, specify	2 - <1%-1%	2 - 7%	2 - 10%
Total Percent Asbestos	<1% - 1%	7%	10%
Other Fibrous Material 1 Fibrous glass 2 Cellulose 3 Synthetic 4 Other, specify			
Nonfibrous Material 1 Calcite 2 Gypsum 3 Quartz 4 Other, specify	1 - 65% Clay and Binders - 34%	Mica - 40% Clay and Binders - 53%	Mica - 40% Clay and Binders - 50%

Analyst Juan Garcia

Date 10/16/87 & 10/20/87

Comments 1030B <1% chrysotile in adhesive/matting material.



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TO: Clark County Bridger Building

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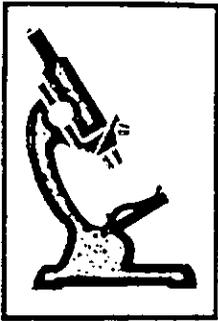
Sample Identification	CCBB-1034B	CCBB-1036B	CCBB-1037B
Laboratory Code Number	5308	5309	5310
Stereomicroscope Examination			
Is sample homogenous?	Yes	Yes	Yes
Does it contain layers?	No	No	No
Does it contain fibers?	Yes	No	Yes
Gross sample color.	white	off white	brown
Polarized Light Analysis			
Type of Asbestos Present 1 Amosite 2 Chrysotile 3 Crocidolite 4 Other, specify	2 - 10% Tremolite - 1%	None Detected	2 - 15%
Total Percent Asbestos	11%	0%	15%
Other Fibrous Material 1 Fibrous glass 2 Cellulose 3 Synthetic 4 Other, specify		2 - 1%	
Nonfibrous Material 1 Calcite 2 Gypsum 3 Quartz 4 Other, specify	Mica - 50% Clay and Binders - 39%	1 - 60% Clay - 30% Binders - 9%	Mica - 40% Clay and Binders - 45%

Analyst Juan Garcia

Date 10/20/87

Comments \_\_\_\_\_

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TO: Clark County Bridger Building

225 Bridger Avenue

Las Vegas, Nevada 89155

Sample Identification	CCBB-1038B	CCBB-1039B	CCBB-1050B
Laboratory Code Number	5311	5312	5313
Stereomicroscope Examination			
Is sample homogenous?	Yes	Yes	Yes
Does it contain layers?	No	No	No
Does it contain fibers?	Yes	No	Yes
Gross sample color.	brown	brown	brown
Polarized Light Analysis			
Type of Asbestos Present 1 Amosite 2 Chrysotile 3 Crocidolite 4 Other, specify	2 - 15%	2 - 15%	2 - 10%
Total Percent Asbestos	15%	15%	10%
Other Fibrous Material 1 Fibrous glass 2 Cellulose 3 Synthetic 4 Other, specify		2 - 1%	
Nonfibrous Material 1 Calcite 2 Gypsum 3 Quartz 4 Other, specify	Mica - 50% Clay and Binders - 35%	Mica - 55% Clay and Binders - 29%	Mica - 45% Clay and Binders - 45%

Analyst Juan Garcia

Date 10/20/87

Comments \_\_\_\_\_

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TO: Clark County Bridger Building  
225 Bridger Avenue  
Las Vegas, Nevada 89155

Sample Identification	CCBB-1051B	CCBB-1052B	CCBB-1053B
Laboratory Code Number	5314	5315	5316
Stereomicroscope Examination			
Is sample homogenous?	Yes	Yes	Yes
Does it contain layers?	No	No	No
Does it contain fibers?	Yes	Yes	Yes
Gross sample color.	brown	brown	brown
Polarized Light Analysis			
Type of Asbestos Present 1 Amosite 2 Chrysotile 3 Crocidolite 4 Other, specify	2 - 15%	2 - 15%	2 - 20%
Total Percent Asbestos	15%	15%	20%
Other Fibrous Material 1 Fibrous glass 2 Cellulose 3 Synthetic 4 Other, specify			2 - 1%
Nonfibrous Material 1 Calcite 2 Gypsum 3 Quartz 4 Other, specify	Mica - 45% Clay and Binders - 40%	Mica - 50% Clay and Binders - 35%	Mica - 45% Clay and Binders - 34%

Analyst Juan Garcia

Date 10/20/87

Comments \_\_\_\_\_  
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TO: Clark County Bridger Building

225 Bridger Avenue

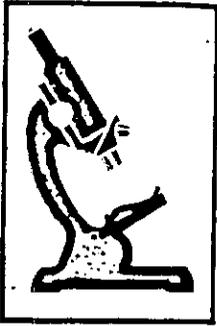
Las Vegas, Nevada 89155

Sample Identification	CCBB-1060B	CCBB-1061B	CCBB-1062B
Laboratory Code Number	5323	5324	5325
Stereomicroscope Examination			
Is sample homogenous?	Yes	Yes	Yes
Does it contain layers?	No	No (Paint)	No
Does it contain fibers?	Yes	No	Yes
Gross sample color.	lt. brown	brown	lt. brown
Polarized Light Analysis			
Type of Asbestos Present 1 Amosite 2 Chrysotile 3 Crocidolite 4 Other, specify	None Detected	None Detected	2 - 15%
Total Percent Asbestos	0%	0%	15%
Other Fibrous Material 1 Fibrous glass 2 Cellulose 3 Synthetic 4 Other, specify	1 - 60% 2 - 30%		
Nonfibrous Material 1 Calcite 2 Gypsum 3 Quartz 4 Other, specify	Clay - 10%	1 - 15% 3 - 35% Clay - 30% Binders - 20%	Mica - 45% Clay and Binders - 40%

Analyst Juan Garcia

Date 10/20/87

Comments \_\_\_\_\_  
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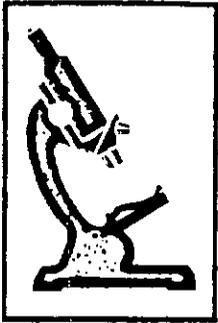
TO: Clark County Bridger Building  
225 Bridger Avenue  
Las Vegas, Nevada 89155

Sample Identification	CCBB-1057B	CCBB-1058B	CCBB-1059B
Laboratory Code Number	5320	5321	5322
<b>Stereomicroscope Examination</b>			
Is sample homogenous?	Yes	Yes	Yes
Does it contain layers?	No (Paint)	No	No
Does it contain fibers?	Yes	Yes	Yes
Gross sample color.	brown	off white	brown
<b>Polarized Light Analysis</b>			
Type of Asbestos Present 1 Amosite 2 Chrysotile 3 Crocidolite 4 Other, specify	None Detected	None Detected	2 - 20%
Total Percent Asbestos	0%	0%	20%
Other Fibrous Material 1 Fibrous glass 2 Cellulose 3 Synthetic 4 Other, specify	1 - 45% 2 - 40%	1 - 60% 2 - 30%	
Nonfibrous Material 1 Calcite 2 Gypsum 3 Quartz 4 Other, specify	Perlite - 15%	Binders - 10%	Mica - 50% Clay and Binders - 30%

Analyst Juan Garcia

Date 10/20/87

Comments \_\_\_\_\_  
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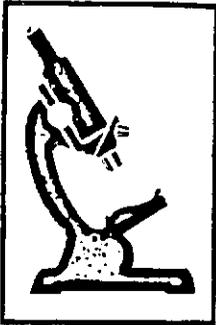
Sample Identification	CCBB-1054B	CCBB-1055B	CCBB-1056B
Laboratory Code Number	5317	5318	5319
Stereomicroscope Examination			
Is sample homogenous?	Yes	Yes	Yes
Does it contain layers?	No	No	No
Does it contain fibers?	Yes	Yes	Yes
Gross sample color.	white	white	white
Polarized Light Analysis			
Type of Asbestos Present 1 Amosite 2 Chrysotile 3 Crocidolite 4 Other, specify	2 - 35%	2 - 15%	1 - 50% 2 - 5%
Total Percent Asbestos	35%	15%	55%
Other Fibrous Material 1 Fibrous glass 2 Cellulose 3 Synthetic 4 Other, specify	1 - 40%		
Nonfibrous Material 1 Calcite 2 Gypsum 3 Quartz 4 Other, specify	Diatoms - 5% Clay and Binders - 20%	Mica - 50% Clay and Binders - 35%	Diatoms - 1% Binders - 44%

Analyst Juan Garcia

Date 10/20/87

Comments \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_



# UNIVERSITY ASSOCIATES, LTD.

*Occupational and Environmental Health: Laboratory Services*

TO: Clark County Bridger Building

225 Bridger Avenue

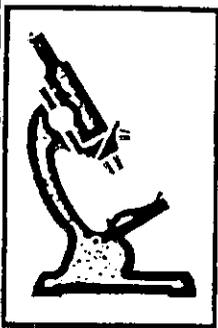
Las Vegas, Nevada 89155

Sample Identification	CCBB-1063B	CCBB-1064B	CCBB-1065B
Laboratory Code Number	5326	5327	5328
Stereomicroscope Examination			
Is sample homogenous?	Yes	No	Yes
Does it contain layers?	No	Yes	No
Does it contain fibers?	Yes	Yes	Yes
Gross sample color.	white	lt. brown	off white
Polarized Light Analysis			
Type of Asbestos Present 1 Amosite 2 Chrysotile 3 Crocidolite 4 Other, specify	1 - 45%	1 - 50%	2 - 25%
Total Percent Asbestos	45%	50%	25%
Other Fibrous Material 1 Fibrous glass 2 Cellulose 3 Synthetic 4 Other, specify	2 - 1%		1 - 20%
Nonfibrous Material 1 Calcite 2 Gypsum 3 Quartz 4 Other, specify	Clay and Binders - 54%	Clay and Binders - 50%	Diatoms - 20% Clay and Binders - 35%

Analyst Juan Garcia

Date 10/20/87

Comments 1064B is a mixture of asbestos containing pipe insulation and a cloth (cellulose) wrap.



# UNIVERSITY ASSOCIATES, LTD.

*Occupational and Environmental Health: Laboratory Services*

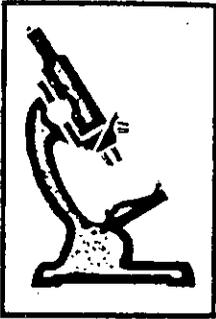
TO: Clark County Bridger Building  
225 Bridger Avenue  
Las Vegas, Nevada 89155

Sample Identification	CCBB-1066B	CCBB-1067B	CCBB-1068B
Laboratory Code Number	5329	5330	5331
Stereomicroscope Examination			
Is sample homogenous?	Yes	Yes	Yes
Does it contain layers?	No	No (Paint)	No
Does it contain fibers?	No	Yes	Yes
Gross sample color.	off white	brown	lt. brown
Polarized Light Analysis			
Type of Asbestos Present 1 Amosite 2 Chrysotile 3 Crocidolite 4 Other, specify	None Detected	None Detected	2 - 10%
Total Percent Asbestos	0%	0%	10%
Other Fibrous Material 1 Fibrous glass 2 Cellulose 3 Synthetic 4 Other, specify	2 - 5%	1 - 60% 2 - 30%	2 - 1%
Nonfibrous Material 1 Calcite 2 Gypsum 3 Quartz 4 Other, specify	1 - 35% Clay - 15% Binders - 45%	Clay and Binders - 10%	Mica - 50% Clay and Binders - 39%

Analyst Juan Garcia

Date 10/20/87

Comments \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



# UNIVERSITY ASSOCIATES, LTD.

*Occupational and Environmental Health: Laboratory Services*

TO: Clark County Bridger Building

225 Bridger Avenue

Las Vegas, Nevada 89155

Sample Identification	CCBB-1031B	CCBB-1035B	
Laboratory Code Number	5357	5358	
Stereomicroscope Examination			
Is sample homogenous?	Yes	Yes	
Does it contain layers?	No	No	
Does it contain fibers?	Yes	No	
Gross sample color.	brown	white	
Polarized Light Analysis			
Type of Asbestos Present 1 Amosite 2 Chrysotile 3 Crocidolite 4 Other, specify	2 - 20%	2 - Trace (<1%)	
Total Percent Asbestos	20%	<1%	
Other Fibrous Material 1 Fibrous glass 2 Cellulose 3 Synthetic 4 Other, specify	None Detected	None Detected	
Nonfibrous Material 1 Calcite 2 Gypsum 3 Quartz 4 Other, specify	2 - 40% Vermiculite 40%	2 - 40% Sand - 50% Vermiculite 10%	

Analyst James Kessler

Date 10/18/87

Comments \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



# 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: Limited Asbestos Survey  
& Report

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

Date of Report: December 2, 1991,



# 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 initially 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.



# AB-HAZ ENVIRONMENTAL

*Consultants in Environmental and Occupational Health*

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## 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 Microscopy, 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

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

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

Analysts :

R. Paul

\_\_\_\_\_

the STIERS group, inc.

the STIERS group, inc.

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December 4, 1991

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

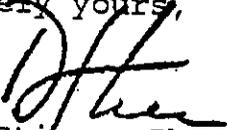
Re: Results of Samples analyzed utilizing  
Polarized Light Microscopy (PLM)

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 48hrs *per Dennis Price*

PROJECT NAME Commission Chambers PO# -

REC'D BY Im DATE 12/2/91 TIME 8:45 AM/PM

DELIVERED BY fed ex SHIPPING BILL RETAINED (C) YES OR NO

CONDITION OF PACKAGE/SAMPLES good

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

ANALYZED BY R. Reul DATE 12-2-91

QUALITY CONTROL CHECKED BY Y.B. Meyer DATE 12-2-91

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

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

SAMPLES TO BE RETURNED YES/NO (NO)

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

Methodology : Polarized Light Microscopy EPA-600M4-82-020  
Account # : 110147

LAB NVLAP CODE : 1875

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 : CLIENT

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

---

This Laboratory Report may not be reproduced except in full and with prior approval.  
This Laboratory Report relates only to the samples tested. This Report does not claim  
product endorsement by NVLAP or any other agency of the US Government.

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

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

Analysts :

R. P. Puel



Date 1/26/91

S	M	<input checked="" type="checkbox"/> T	W	TH	F	S
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BULK SAMPLES

CHAIN OF CUSTODY / SAMPLE TRANSMITTAL

CLIENT: Clark County / Br. of 12 Bld

CONTACT: GARY KENNEDY

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 BEAMS RUNNING 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 ON TOP OF CEILING BY FAR EAST WALL	
BB/CC 012	MATERIAL THAT WAS LAYING ON TOP OF CEILING BY ACCESS POINT	



Date 11/26/91

S	M	T	<del>W</del>	Th	F	S
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FAX #  
702-452-6360

BULK SAMPLES

CHAIN OF CUSTODY / SAMPLE TRANSMITTAL

CLIENT: CLARK COUNTY / BRIDGECRENS

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 HEAD ON	
BB/CC 006	BEAM RUNNING E/W - 2RD BEAM RUNNING N	



# AB-HAZ ENVIRONMENTAL

*Consultants in Environmental and Occupational Health*

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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.



# AB-HAZ ENVIRONMENTAL

*Consultants in Environmental and Occupational Health*

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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, or may occur in the future. According to the EPA, the only recognized method of eliminating the exposure is via removal.

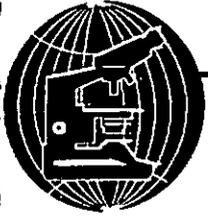
Health experts agree that exposure to airborne asbestos, regardless of concentrations, involves a health risk. Persons exposed to asbestos have an increased risk to developing asbestosis, lung cancer, silicosis, and mesothelioma.

## 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 activities 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 don 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 respiratory protection.



# AB-HAZ ENVIRONMENTAL

*Specializing in Hazardous Waste Management*

## 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.



# AB-HAZ ENVIRONMENTAL

*Specializing in Hazardous Waste Management*

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.



## AB-HAZ ENVIRONMENTAL

*Specializing in Hazardous Waste Management*

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.

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

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



**AB-HAZ ENVIRONMENTAL**  
Specializing in Hazardous Waste Management

**TATE & SNYDER ARCHITECTS**  
709 VALLE VERDE CT  
HENDERSON, NV 89014

## Environmental Health Survey Report

**Bridger Building**  
**225 Bridger Avenue**  
**Las Vegas, Nevada**

Survey Conducted By: *Rocco DiPentino*  
Rocco DiPentino,  
NV.# IJPMO118/  
Dennis T. Price,  
NV.# IJPM0117

Management Contact: David Laman,  
Facilities Supervisor

Project: Asbestos Survey

Site: Bridger Building  
225 Bridger  
Las Vegas, NV

Date of Report: February 4, 1994,

**RECEIVED**

FEB 07 1994

**ARCHITECTURAL/ENGR.**



**AB-HAZ ENVIRONMENTAL**  
Specializing in Hazardous Waste Management

February 4, 1994,

Clark County Division of Facilities  
Attn: Mr. David Laman, Facilities Supervisor  
200 South 3rd Street  
Las Vegas, Nevada

RE: Asbestos Survey conducted at the Clark County Bridger Bldg.  
225 Bridger Avenue  
Las Vegas, Nevada

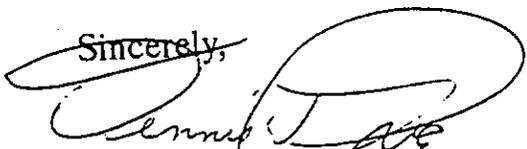
Dear Mr. Laman,

Ab-Haz Environmental Services (Ab-Haz) are pleased to present the results of our complete asbestos survey conducted at the Clark County Bridger Building. The survey was performed in response to your request for the above referenced project.

Ab-Haz surveyed and collected representative bulk construction materials to confirm asbestos content. Ab-Haz also quantified and identified the locations of confirmed asbestos containing materials.

Ab-Haz will generate the necessary documentation and recommendation to abate the confirmed asbestos containing materials. Should you have any questions concerning this information, please contact the undersigned.

Sincerely,

  
Dennis T. Price,  
President

Page #2



# AB-HAZ ENVIRONMENTAL

Specializing in Hazardous Waste Management

## 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.



# AB-HAZ ENVIRONMENTAL

*Specializing in Hazardous Waste Management*

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.

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## 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.



## AB-HAZ ENVIRONMENTAL

*Specializing in Hazardous Waste Management*

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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.

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

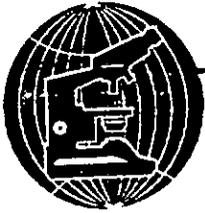
	<b>SURFACE</b>	<b>THERMAL</b>	<b>MISC</b>
	<p>ASBESTOS CONTAINING FIREPROOFING:  118,288 SQUARE FEET</p> <p>TOTAL FIREPROOFING ON STRUCTURAL MEMBERS ARE  118,288 SQUARE FEET</p>	<p>LINEAR ASBESTOS PIPE INSULATION:  5380 LINEAR FEET</p> <p>TOTAL MECHANICAL JOINTS (90° ELBOWS &amp; TEES) RANGING FROM 6"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



**AB-HAZ ENVIRONMENTAL**

*Specializing in Hazardous Waste Management*

## BULK SAMPLE LOG



# AB-HAZ ENVIRONMENTAL

Specializing in Hazardous Waste Management

Date 1-31-94

	S	M	T	W	Th	F	S
Day		X					

## BULK SAMPLES CHAIN OF CUSTODY/SAMPLE TRANSMITTAL

CLIENT: CLARK COUNTY

CONTACT: DENNIS PRICE

PROJECT: BRIDGER BUILDING

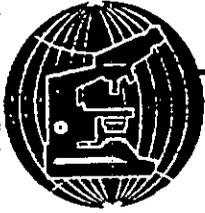
PROJ. #: BB-9401

ANALYSIS: (X) PLM ( ) SEM ( ) TEM  
 TURNAROUND TIME: ( ) Normal (X) Priority ( ) Rush

Samples Transmitted By: Decco DiPentone, AB-HAZ  
 Samples Received By: Joey M. Price, KEVCO  
 Samples Analyzed By: \_\_\_\_\_  
 Samples Stored By: \_\_\_\_\_  
 Samples Returned By: \_\_\_\_\_

Date: 1-31-94 Time: \_\_\_\_\_  
 Date: 2-2-94 Time: 9:30 AM  
 Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Date: \_\_\_\_\_ Time: \_\_\_\_\_

AREA	SAMPLE #	LOCATION	RESULTS
✓ B-ER	BB-1001	Elevator room fireproofing on ceiling	
✓ B-ER	BB-1002	Elevator room - ceiling spray	
✓ B-ER	BB-1003	Elevator room - Ceiling spray	
✓ B-ER	BB-1004	Blower room Ceiling spray	
✓ B-BR	BB-1005	Blower room Ceiling Spray	
✓ B-BR	BB-1005	Blower room Ceiling Spray	
✓ B-BR	BB-1007	Blower Room Pipe Insulation 4"	



# AB-HAZ ENVIRONMENTAL

Specializing in Hazardous Waste Management

Date 1-31-94

S	M	T	W	Th	F	S
		X				

## BULK SAMPLES CHAIN OF CUSTODY/SAMPLE TRANSMITTAL

CLIENT: CLARK COUNTY

CONTACT: DENNIS PRICE

PROJECT: BRIDGER BUILDING

PROJ. #: BB-9401

ANALYSIS: (X) PLM ( ) SEM ( ) TEM

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

Samples Transmitted By: Rocco DiPietro

Samples Received By: Geary M. Boyd KEVCO

Samples Analyzed By: \_\_\_\_\_

Samples Stored By: \_\_\_\_\_

Samples Returned By: \_\_\_\_\_

Date: 1-31-94 Time: \_\_\_\_\_

Date: 2-2-94 Time: 9:30 Am

Date: \_\_\_\_\_ Time: \_\_\_\_\_

Date: \_\_\_\_\_ Time: \_\_\_\_\_

Date: \_\_\_\_\_ Time: \_\_\_\_\_

AREA	SAMPLE #	LOCATION	RESULTS
✓ B-BR	BB-1008	Blower Room pipe insulation 1 1/2"	
✓ B-BR	BB-1009	Blower Room Pipe Insulation 3/4"	
✓ B-10th floor	BB-1010	Fireproofing on beams above drop ceiling in elevator lobby	
✓ B-10th floor	BB-1011	Floor tile in maintenance room	
B-10th floor	BB-1011	Vinyl wall covering in hallway	
✓ B-10th floor	BB-1012	Structural fireproofing hallway south end	
✓ B-10th floor	BB-1013	Structural fireproofing in office - N/W	

NOT  
ENCLOSED  
(GB)



# AB-HAZ ENVIRONMENTAL

Specializing in Hazardous Waste Management

Date 1-31-94

	S	M	T	W	Th	F	S
Day		X					

## BULK SAMPLES CHAIN OF CUSTODY/SAMPLE TRANSMITTAL

CLIENT: CLARK COUNTY

CONTACT: DENNIS PRICE

PROJECT: BRIDGER BUILDING

PROJ. #: BB-9401

ANALYSIS: (X) PLM ( ) SEM ( ) TEM  
 TURNAROUND TIME: ( ) Normal (X) Priority ( ) Rush

Samples Transmitted By: Jocco DiPentia Date: 1-31-94 Time: \_\_\_\_\_  
 Samples Received By: Greg Bueh KEVCO Date: 2-2-94 Time: 9:30 AM  
 Samples Analyzed By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Samples Stored By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Samples Returned By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

AREA	SAMPLE #	LOCATION	RESULTS
✓ B-10th floor	BB-1015	Structural fireproofing Womens Restroom	
✓ B-10th floor	BB-1016	Pipe Insulation on lateral run Womens Restroom	
✓ B-10th floor	BB-1017	Pipe Insulation on lateral run along N/E of lobby hallway	
✓ B-10th floor	BB-1018	Pipe Insulation on lateral run along S/E end of lobby hallway	
✓ B-10th floor	BB-1019	N/W office/Structuring fire- proofing above drop ceiling	
✓ B-9th floor	BB-1020	Floor material maintenance hall	
✓ B-9th floor	BB-1021	Base cove mastic hallway west side	



# AB-HAZ ENVIRONMENTAL

Specializing in Hazardous Waste Management

Date 1-31-94

	S	M	T	W	Th	F	S
Day		X					

## BULK SAMPLES CHAIN OF CUSTODY/SAMPLE TRANSMITTAL

CLIENT: CLARK COUNTY

CONTACT: DENNIS PRICE

PROJECT: BRIDGER BUILDING

PROJ. #: BB-9401

ANALYSIS: (X) PLM ( ) SEM ( ) TEM

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

Samples Transmitted By: Loce Di Pietro, Arthur

Date: 1-31-94 Time: \_\_\_\_\_

Samples Received By: Greg Bab, KEVCO

Date: 2-2-94 Time: 9:30 AM

Samples Analyzed By: \_\_\_\_\_

Date: \_\_\_\_\_ Time: \_\_\_\_\_

Samples Stored By: \_\_\_\_\_

Date: \_\_\_\_\_ Time: \_\_\_\_\_

Samples Returned By: \_\_\_\_\_

Date: \_\_\_\_\_ Time: \_\_\_\_\_

AREA	SAMPLE #	LOCATION	RESULTS
✓ B-9th floor	BB-1022	Structural fireproofing Conference Room	
✓ B-9th floor	BB-1023	Thermal Insulation in ceiling - Mens Restroom	
✓ B-9th floor	BB-1024	Beam Structure Fireproofing Mens Restroom	
✓ B-9th floor	BB-1025	S/W end of hallway thermal insulation	
✓ B-9th floor	BB-1026	Base cove mastic in hallway east side	
✓ B-9th floor	BB-1027	South side secretary/lobby structural fireproofing	
✓ B-9th floor	BB-1028	Thermal pipe insulation Womens Restroom	



# AB-HAZ ENVIRONMENTAL

Specializing in Hazardous Waste Management

Date 1-31-94

S M T W Th F S

Day

	X					
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## BULK SAMPLES CHAIN OF CUSTODY/SAMPLE TRANSMITTAL

CLIENT: CLARK COUNTY

CONTACT: DENNIS PRICE

PROJECT: BRIDGER BUILDING

PROJ. #: BB-9401

ANALYSIS: (X) PLM ( ) SEM ( ) TEM

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

Samples Transmitted By: Rocco DiPentia AB-HAZ Date: 1-31-94 Time: \_\_\_\_\_

Samples Received By: Greg M. Bell Date: 2-2-94 Time: 9:30 AM

Samples Analyzed By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Samples Stored By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Samples Returned By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

AREA	SAMPLE #	LOCATION	RESULTS
✓ B-9th floor	BB-1029	Structural fireproofing Womens Restroom	
✓ B-8th floor	BB-1030	Base Cove Mastic Hallway	
✓ B-8th floor	BB-1031	Floor cover material in N/W office	
✓ B-8th floor	BB-1032	S end of main hallway structural fireproofing	
✓ B-8th floor	BB-1033	S end of hallway thermal pipe insulation	
✓ B-8th floor	BB-1034	N/W office structural fireproofing	
✓ B-8th floor	BB-1035	Thermal pipe insulation N/W office	



# AB-HAZ ENVIRONMENTAL

Specializing in Hazardous Waste Management

Date 1-31-94

	S	M	T	W	Th	F	S
Day		X					

## BULK SAMPLES CHAIN OF CUSTODY/SAMPLE TRANSMITTAL

CLIENT: CLARK COUNTY

CONTACT: DENNIS PRICE

PROJECT: BRIDGER BUILDING

PROJ. #: BB-9401

ANALYSIS: (X) PLM ( ) SEM ( ) TEM

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

Samples Transmitted By: Rocio DiPenturo, AB-Haz

Date: 1-31-94

Time: \_\_\_\_\_

Samples Received By: Gregory M. Bax, KEVCO

Date: 2-2-94

Time: 9:30 AM

Samples Analyzed By: \_\_\_\_\_

Date: \_\_\_\_\_

Time: \_\_\_\_\_

Samples Stored By: \_\_\_\_\_

Date: \_\_\_\_\_

Time: \_\_\_\_\_

Samples Returned By: \_\_\_\_\_

Date: \_\_\_\_\_

Time: \_\_\_\_\_

AREA	SAMPLE #	LOCATION	RESULTS
✓ B-8th floor	BB-1036	Structural fireproofing W/End Hallway	
✓ B-8th floor	BB-1037	Thermal Joint Insulation on Pipe west end hall	
✓ B-8th floor	BB-1038	Thermal Joint Insulation middle of hallway	
✓ B-8th floor	BB-1039	Thermal Joint Insulation Mens Restroom	
✓ B-7th floor	BB-1040	Base Cove Mastic Hallway South End	
✓ B-7th floor	BB-1041	South End Hallway fireproofing	
✓ B-7th floor	BB-1042	Thermal pipe insulation South End Hallway	



# AB-HAZ ENVIRONMENTAL

Specializing in Hazardous Waste Management

Date 1-31-94

	S	M	T	W	Th	F	S
Day		X					

## BULK SAMPLES CHAIN OF CUSTODY/SAMPLE TRANSMITTAL

CLIENT: CLARK COUNTY

CONTACT: DENNIS PRICE

PROJECT: BRIDGER BUILDING

PROJ. #: BB-9401

ANALYSIS: (X) PLM ( ) SEM ( ) TEM  
 TURNAROUND TIME: ( ) Normal (X) Priority ( ) Rush

Samples Transmitted By: Rocco DiPietro AB-HAZ Date: 1-31-94 Time: \_\_\_\_\_  
 Samples Received By: Greg M. Bell KEVCO Date: 2-2-94 Time: 9:30 AM  
 Samples Analyzed By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Samples Stored By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Samples Returned By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

AREA	SAMPLE #	LOCATION	RESULTS
✓ B-7th floor	BB-1043	Thermal Joint Insulation on pipe S/End Hallway	
✓ B-7th floor	BB-1044	Fireproofing west end hall	
✓ B-7th floor	BB-1045	Thermal Pipe Insulation W/End of hallway	
✓ B-7th floor	BB-1046	Thermal Joint Insulation W/ Hallway	
✓ B-7th floor	BB-1047	N/W office Fireproofing	
✓ B-7th floor	BB-1048	Thermal Pipe Insulation N/W office	
✓ B-7th floor	BB-1049	Thermal joint insulation N/W Office	



# AB-HAZ ENVIRONMENTAL

Specializing in Hazardous Waste Management

Date 1-31-94

	S	M	T	W	Th	F	S
Day		X					

## BULK SAMPLES CHAIN OF CUSTODY/SAMPLE TRANSMITTAL

CLIENT: CLARK COUNTY

CONTACT: DENNIS PRICE

PROJECT: BRIDGER BUILDING

PROJ. #: BB-9401

ANALYSIS: (X) PLM ( ) SEM ( ) TEM

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

Samples Transmitted By: Patricia D. Poytiss, AB-Haz

Date: 1-31-94 Time: \_\_\_\_\_

Samples Received By: Jimmy Best KEVCO

Date: 2-2-94 Time: 9:30 AM

Samples Analyzed By: \_\_\_\_\_

Date: \_\_\_\_\_ Time: \_\_\_\_\_

Samples Stored By: \_\_\_\_\_

Date: \_\_\_\_\_ Time: \_\_\_\_\_

Samples Returned By: \_\_\_\_\_

Date: \_\_\_\_\_ Time: \_\_\_\_\_

AREA	SAMPLE #	LOCATION	RESULTS
✓ B-6th floor	BB-1050	Base Cove Mastic on wall S/End Hallway	
✓ B-6th floor	BB-1051	Fireproofing on beaming conference room	
✓ B-6th floor	BB-1052	Thermal Pipe Insulation Conference Room	
✓ B-6th floor	BB-1053	Pipe Joint Insulation Conference Room	
✓ B-6th floor	BB-1054	N/E Lobby Fireproofing	
✓ B-6th floor	BB-1055	Thermal Pipe Insulation N/W lobby	
✓ B-6th floor	BB-1056	Thermal joint insulation S/E Hallway	



# AB-HAZ ENVIRONMENTAL

Specializing in Hazardous Waste Management

Date 1-31-94

	S	M	T	W	Th	F	S
Day		X					

## BULK SAMPLES CHAIN OF CUSTODY/SAMPLE TRANSMITTAL

CLIENT: CLARK COUNTY

CONTACT: DENNIS PRICE

PROJECT: BRIDGER BUILDING

PROJ. #: BB-9401

ANALYSIS: (X) PLM ( ) SEM ( ) TEM  
 TURNAROUND TIME: ( ) Normal (X) Priority ( ) Rush

Samples Transmitted By: Lucas DiPentino (AB-HAZ) Date: 1-31-94 Time: \_\_\_\_\_  
 Samples Received By: George M. Price (KEVCO) Date: 2-2-94 Time: 9:30 AM  
 Samples Analyzed By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Samples Stored By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Samples Returned By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

AREA	SAMPLE #	LOCATION	RESULTS
✓ B-6th floor	BB-1057	Fireproofing S/W Hallway	
✓ B-6th floor	BB-1058	Pipe Insulation S/W Hallway	
✓ B-6th floor	BB-1059	Thermal Joint Insulation N/W Lobby	
✓ B-5th floor	BB-1060	Floor Tile in N/W Secretary Room	
✓ B-5th floor	BB-1061	Thermal Pipe Insulation - Lobby	
✓ B-5th floor	BB-1062	Fireproofing - Lobby - beams	
✓ B-5th floor	BB-1063	Thermal joint insulation on Pipe/Lobby	



# AB-HAZ ENVIRONMENTAL

Specializing in Hazardous Waste Management

Date 1-31-94

S M T W Th F S

Day

	X					
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## BULK SAMPLES CHAIN OF CUSTODY/SAMPLE TRANSMITTAL

CLIENT: CLARK COUNTY

CONTACT: DENNIS PRICE

PROJECT: BRIDGER BUILDING

PROJ. #: BB-9401

ANALYSIS: (X) PLM ( ) SEM ( ) TEM

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

Samples Transmitted By: Peter DiPietro, AB-HAZ

Date: 1-31-94 Time: \_\_\_\_\_

Samples Received By: Gregory M. Reid, KRCWC

Date: 2-2-94 Time: 9:30 Am

Samples Analyzed By: \_\_\_\_\_

Date: \_\_\_\_\_ Time: \_\_\_\_\_

Samples Stored By: \_\_\_\_\_

Date: \_\_\_\_\_ Time: \_\_\_\_\_

Samples Returned By: \_\_\_\_\_

Date: \_\_\_\_\_ Time: \_\_\_\_\_

AREA	SAMPLE #	LOCATION	RESULTS
✓ B-5th floor	BB-1064	Fireproofing S/W Lounge Room	
✓ B-5th floor	BB-1065	Thermal Pipe Insulation S/W Lobby	
✓ B-5th floor	BB-1066	Thermal Pipe Joint Insulation S/W Lobby	
✓ B-5th floor	BB-1067	Base Cove Mastic N/W Lobby	
✓ B-5th floor	BB-1068	N/W Reception Area Fireproofing	
✓ B-5th floor	BB-1069	Thermal Pipe Insulation N/W Reception	
✓ B-4C	BB-1070	Chiller Room Pipe Insulation on Joints	



# AB-HAZ ENVIRONMENTAL

Specializing in Hazardous Waste Management

Date 1-31-94

S M T W Th F S

Day

	X					
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## BULK SAMPLES CHAIN OF CUSTODY/SAMPLE TRANSMITTAL

CLIENT: CLARK COUNTY

CONTACT: DENNIS PRICE

PROJECT: BRIDGER BUILDING

PROJ. #: BB-9401

ANALYSIS: (X) PLM ( ) SEM ( ) TEM

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

Samples Transmitted By: Rocco DiPentia, AB-HAZ Date: 1-31-94 Time: \_\_\_\_\_

Samples Received By: Gregory M. Bell, KEVCO Date: 2-2-94 Time: 9:30 AM

Samples Analyzed By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Samples Stored By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Samples Returned By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

AREA	SAMPLE #	LOCATION	RESULTS
B-4th floor	BB-1071	Exterior Ceiling Plaster North Side	
B-4th floor	BB-1072	Fireproofing on Structurebeams North Side above plaster ceiling	
B-4C	BB-1073	Thermal Joint Insulation on pipe in Chiller Room	
B-4C	BB-1074	Thermal Pipe Insulation Chiller Room	
B-4th floor	BB-1075	Thermal Pipe Insulation Parking Garage above Plaster Ceiling	
B-4th floor	BB-1076	Fireproofing on Beams on Soffit	
B-3rd floor	BB-1077	Fireproofing on beams Mechanical Room	

NOT ENCLOSED (6B)



# AB-HAZ ENVIRONMENTAL

Specializing in Hazardous Waste Management

Date 1-31-94

	S	M	T	W	Th	F	S
Day		X					

## BULK SAMPLES CHAIN OF CUSTODY/SAMPLE TRANSMITTAL

CLIENT: CLARK COUNTY

CONTACT: DENNIS PRICE

PROJECT: BRIDGER BUILDING

PROJ. #: BB-9401

ANALYSIS: (X) PLM ( ) SEM ( ) TEM

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

Samples Transmitted By: Loce Di Pentino, AB-H42 Date: 1-31-94 Time: \_\_\_\_\_  
 Samples Received By: Greg M. Price, KEVCO Date: 2-2-94 Time: 9:30 Am  
 Samples Analyzed By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Samples Stored By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Samples Returned By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

AREA	SAMPLE #	LOCATION	RESULTS
✓ B-3rd floor	BB-1078	Thermal Pipe Insulation above Ceiling - Mechanical Room	
✓ B-3rd floor	BB-1079	Pipe Joint Insulation above Ceiling - Mechanical Room	
✓ B-3rd floor	BB-1080	Fireproofing above plaster lathe ceiling	
✓ B-3rd floor	BB-1081	Pipe Joint Insulation above ceiling in parking garage	
✓ B-3rd floor	BB-1082	Thermal Pipe Insulation Parking Garage above Plaster Ceiling	
B-3rd floor	BB-1083	"Exterior" surface plaster parking garage	
✓ B-2nd floor	BB-1084	Thermal Pipe Insulation above plaster ceiling in parking garage	



# AB-HAZ ENVIRONMENTAL

Specializing in Hazardous Waste Management

Date 1-31-94

	S	M	T	W	Th	F	S
Day		X					

## BULK SAMPLES CHAIN OF CUSTODY/SAMPLE TRANSMITTAL

CLIENT: CLARK COUNTY

CONTACT: DENNIS PRICE

PROJECT: BRIDGER BUILDING

PROJ. #: BB-9401

ANALYSIS: (X) PLM ( ) SEM ( ) TEM

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

Samples Transmitted By: Rocco DiPentia AB HAZ Date: 1-31-94 Time: \_\_\_\_\_

Samples Received By: Jerry M. Bell KEVCO Date: 2-2-94 Time: 9:30 Am

Samples Analyzed By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Samples Stored By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Samples Returned By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

\* NOTE: 1084 - 1089 Were all taken from above plaster ceiling in Parking Garage

AREA	SAMPLE #	LOCATION	RESULTS
✓ B-2nd floor	BB-1085	Thermal Pipe Joint Insulation	
✓ B-2nd floor	BB-1086	Thermal Pipe Joint Insulation	
✓ B-2nd floor	BB-1087	Fireproofing on structure beams	
✓ B-2nd floor	BB-1088	Fireproofing on structure beams	
✓ B-2nd floor	BB-1089	Thermal Pipe Insulation	
✓ B-1st floor	BB-1090	"Exterior" surface plaster Spray on beams above	
✓ B-1st floor	BB-1091	Commissioners Chambers	

NOT ENCLOSED (6B)



# AB-HAZ ENVIRONMENTAL

Specializing in Hazardous Waste Management

Date 1-31-94

S M T W Th F S

Day

	X					
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## BULK SAMPLES CHAIN OF CUSTODY/SAMPLE TRANSMITTAL

CLIENT: CLARK COUNTY

CONTACT: DENNIS PRICE

PROJECT: BRIDGER BUILDING

PROJ. #: BB-9401

ANALYSIS: (X) PLM ( ) SEM ( ) TEM

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

Samples Transmitted By: Dennis Price, AB-HAZ Date: 1-31-94 Time: \_\_\_\_\_

Samples Received By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

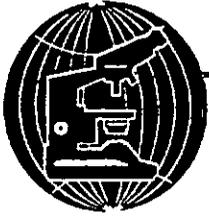
Samples Analyzed By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Samples Stored By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Samples Returned By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

AREA	SAMPLE #	LOCATION	RESULTS
B-1st floor	BB-1092	Exterior Plaster on wall in Alley	

NOT ENCLOSED  
(673)  
SEE BB-1092  
MISSIONERS  
CHAMBERS



# AB-HAZ ENVIRONMENTAL

Specializing in Hazardous Waste Management

Date 1-31-94

	S	M	T	W	Th	F	S
Day		X					

## BULK SAMPLES CHAIN OF CUSTODY/SAMPLE TRANSMITTAL

CLIENT: CLARK COUNTY

CONTACT: DENNIS PRICE

PROJECT: BRIDGER BUILDING

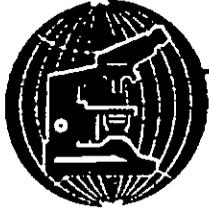
PROJ. #: BB-9401

ANALYSIS: (X) PLM ( ) SEM ( ) TEM

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

Samples Transmitted By: Rocco DiPentia AB-HAZ Date: 1-31-94 Time: \_\_\_\_\_  
 Samples Received By: Greg M. Price KENCO Date: 2-2-94 Time: 9:30 AM  
 Samples Analyzed By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Samples Stored By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Samples Returned By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

AREA	SAMPLE #	LOCATION	RESULTS
✓ B-1st floor	BB-1092	Commissioners Chambers Spray on Beams	
✓ B-1st floor	BB-1093	Commissioners Chambers Water Pipe Insulation	
✓ B-1	BB-1094	Front Lobby Area above ceiling Thermal Mud on pipe elbow	
✓ B-1	BB-1095	Maintenance Room above hard drop ceiling Fireproofing	
✓ B-1	BB-1096	Floor tile in hallway leading side "exit" alley	
✓ B-1	BB-1097	Spray on beams above drop ceiling in "exit" hallway	
✓ B-1	BB-1098	Thermal mud insulation on pipe elbows above drop ceiling in "exit" hallway	



**AB-HAZ ENVIRONMENTAL**

*Specializing in Hazardous Waste Management*

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## BULK SAMPLING RESULTS

# Kevco

LABORATORY & CONSULTING SERVICES

BULK ASBESTOS SAMPLE ANALYSIS REPORT

REPORT DATE: 2/07/94

TEST METHOD: 40 CFR CH. I (1-1-87 EDITION) PT 763, SUBPT. F APP. A. PAGES 293-299.

REPORT TO: AB/HAZ ENVIRONMENTAL  
2242 Placer Creek  
Las Vegas NV 89115  
ATTENTION: Dennis Price

ANALYST SIGNATURE: Paul Hurm  
PAUL HURM

KEVCO JOB NUMBER:	19817	19817	19817
DATE RECEIVED:	2/02/94	2/02/94	2/02/94
DATE ANALYZED:	2/03/94	2/04/94	2/04/94
CLIENT SAMPLE ID:	1001	1002	1003
PROJECT ID:	BRIDGER BUILDING	BRIDGER BUILDING	BRIDGER BUILDING
SAMPLE LOCATION:	ELEVATOR ROOM FIRE-PROOFING ON CEILING	ELEVATOR ROOM CEILING SPRAY	ELEVATOR ROOM CEILING SPRAY
IS THE SAMPLE HOMOGENEOUS?	YES	YES	YES
DOES IT CONTAIN LAYERS?	NO	NO	NO
IS THE SAMPLE FIBROUS?	YES	YES	YES
SAMPLE COLOR:	WHITE	WHITE	WHITE
SAMPLE CONTAIN ASBESTOS FIBERS?	YES	YES	YES
ASBESTOS TYPE AND PERCENT:	CHRYSTILE 10 - 20	CHRYSTILE 10 - 20	CHRYSTILE 10 - 20
TOTAL PERCENT ASBESTOS:	TOTAL: 10 - 20	TOTAL: 10 - 20	TOTAL: 10 - 20
FIBROUS MATERIALS AND PERCENT:	CELLULOSE < 1%	CELLULOSE < 1%	CELLULOSE 01 - 02
NONFIBROUS CONSTITUENTS:	BINDER	BINDER/VERMICULITE	BINDER/VERMICULITE
DEVIATION FROM TEST METHOD:			

- THIS TEST REPORT RELATES ONLY TO THE ITEMS TESTED AND MUST NOT BE REPRODUCED EXCEPT WITH THE APPROVAL OF THE LABORATORY.
- ALL SAMPLES WILL BE DISPOSED OF 90 DAYS FOLLOWING SAMPLE RECEIPT UNLESS OTHERWISE INSTRUCTED BY THE CLIENT.
- UNDER CURRENT EPA REGULATIONS, AN "ASBESTOS CONTAINING MATERIAL" CONTAINS MORE THAN ONE PERCENT ASBESTOS.
- UNLESS OTHERWISE STATED, TEST METHOD DOES NOT UTILIZE POINT COUNTING. QUANTITATION OF COMPONENTS BY VISUAL ESTIMATION DURING MACROSCOPIC AND/OR PLM EXAMINATIONS.
- UNDER CURRENT NESHAP REGULATIONS, 40 CFR PART 61, ASBESTOS CONTENT IN SAMPLES WITH LESS THAN 10 PERCENT ASBESTOS MUST BE REVERIFIED BY PLM POINT COUNTING.

# KEVCO

LABORATORY & CONSULTING SERVICES

BULK ASBESTOS SAMPLE ANALYSIS REPORT

REPORT DATE: 2/07/94

TEST METHOD: 40 CFR CH. I (1-1-87 EDITION) PT 763, SUBPT. F APP. A. PAGES 293-299.

REPORT TO: AB/HAZ ENVIRONMENTAL  
 2242 Placer Creek  
 Las Vegas NV 89115  
 ATTENTION: Dennis Price

ANALYST SIGNATURE: Paul Hurm  
 PAUL HURM

KEVCO JOB NUMBER:	19817	19817	19817
DATE RECEIVED:	2/02/94	2/02/94	2/02/94
DATE ANALYZED:	2/04/94	2/04/94	2/04/94
CLIENT SAMPLE ID:	1004	1005	1006
PROJECT ID:	BRIDGER BUILDING	BRIDGER BUILDING	BRIDGER BUILDING
SAMPLE LOCATION:	BLOWER ROOM CEILING SPRAY	BLOWER ROOM CEILING SPRAY	BLOWER ROOM CEILING SPRAY
IS THE SAMPLE HOMOGENEOUS?	YES	YES	YES
DOES IT CONTAIN LAYERS?	NO	NO	NO
IS THE SAMPLE FIBROUS?	YES	YES	YES
SAMPLE COLOR:	WHITE	WHITE	WHITE
SAMPLE CONTAIN ASBESTOS FIBERS?	YES	YES	YES
ASBESTOS TYPE AND PERCENT:	CHRYSTOLE 10 - 20	CHRYSTOLE 10 - 20	CHRYSTOLE 10 - 20
TOTAL PERCENT ASBESTOS:	TOTAL: 10 - 20	TOTAL: 10 - 20	TOTAL: 10 - 20
FIBROUS MATERIALS AND PERCENT:	CELLULOSE < 1%	FIBROUS GLASS < 1%	CELLULOSE < 1%
NONFIBROUS CONSTITUENTS:	BINDER/VERMICULITE	BINDER/VERMICULITE	BINDER/VERMICULITE
DEVIATION FROM TEST METHOD:			

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LABORATORY & CONSULTING SERVICES

BULK ASBESTOS SAMPLE ANALYSIS REPORT

REPORT DATE: 2/07/94

TEST METHOD: 40 CFR CH. I (1-1-87 EDITION) PT 763, SUBPT. F APP. A. PAGES 293-299.

REPORT TO: AB/HAZ ENVIRONMENTAL  
2242 Placer Creek  
Las Vegas NV 89115  
ATTENTION: Dennis Price

ANALYST SIGNATURE: Paul Hurn  
PAUL HURN

KEVCO JOB NUMBER:	19817	19817	19817
DATE RECEIVED:	2/02/94	2/02/94	2/02/94
DATE ANALYZED:	2/04/94	2/04/94	2/04/94
CLIENT SAMPLE ID:	1007	1008	1009
PROJECT ID:	BRIDGER BUILDING	BRIDGER BUILDING	BRIDGER BUILDING
SAMPLE LOCATION:	BLOWER ROOM PIPE INSULATION 4"	BLOWER ROOM PIPE INSULATION 1 1/2"	BLOWER ROOM PIPE INSULATION 3/4"
IS THE SAMPLE HOMOGENEOUS?	YES	YES	YES
DOES IT CONTAIN LAYERS?	NO	NO	NO
IS THE SAMPLE FIBROUS?	YES	YES	YES
SAMPLE COLOR:	WHITE	WHITE	WHITE
SAMPLE CONTAIN ASBESTOS FIBERS?	YES	YES	YES
ASBESTOS TYPE AND PERCENT:	CHRYSTOLE 01 - 02 AMOSITE 30 - 40	CHRYSTOLE 01 - 02 AMOSITE 30 - 40	CHRYSTOLE 01 - 02 AMOSITE 35 - 45
TOTAL PERCENT ASBESTOS:	TOTAL: 31 - 42	TOTAL: 31 - 42	TOTAL: 36 - 47
FIBROUS MATERIALS AND PERCENT:			
NONFIBROUS CONSTITUENTS:	BINDER	BINDER	BINDER
DEVIATION FROM TEST METHOD:			

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# Kevco

LABORATORY & CONSULTING SERVICES

BULK ASBESTOS SAMPLE ANALYSIS REPORT

REPORT DATE: 2/07/94

TEST METHOD: 40 CFR CH. I (1-1-87 EDITION) PT 763, SUBPT. F APP. A. PAGES 293-299.

REPORT TO: AB/HAZ ENVIRONMENTAL  
 2242 Placer Creek  
 Las Vegas NV 89115  
 ATTENTION: Dennis Price

ANALYST SIGNATURE: *Gary Lardini*  
 GARY LARDINI

KEVCO JOB NUMBER:	19817	19817	19817
DATE RECEIVED:	2/02/94	2/02/94	2/02/94
DATE ANALYZED:	2/04/94	2/04/94	2/04/94
CLIENT SAMPLE ID:	1013	1014	1015
PROJECT ID:	BRIDGER BUILDING	BRIDGER BUILDING	BRIDGER BUILDING
SAMPLE LOCATION:	STRUCTURAL FIRE-PROOFING IN OFFICE N/W	10TH FLOOR OFFICE S/E END	STRUCTURAL FIRE-PROOFING WOMENS RESTROOM
IS THE SAMPLE HOMOGENEOUS?	YES	YES	YES
DOES IT CONTAIN LAYERS?	NO	NO	NO
IS THE SAMPLE FIBROUS?	YES	YES	YES
SAMPLE COLOR:	LT. GRAY	LT. GRAY	LT. GRAY
SAMPLE CONTAIN ASBESTOS FIBERS?	YES	YES	YES
ASBESTOS TYPE AND PERCENT:	CHRYSOTILE 10 - 15	CHRYSOTILE 10 - 15	CHRYSOTILE 15 - 20
TOTAL PERCENT ASBESTOS:	TOTAL: 10 - 15	TOTAL: 10 - 15	TOTAL: 15 - 20
FIBROUS MATERIALS AND PERCENT:	FIBROUS GLASS < 1% CELLULOSE < 1%	FIBROUS GLASS < 1% CELLULOSE 01 - 02	FIBROUS GLASS < 1% CELLULOSE 01 - 02
NONFIBROUS CONSTITUENTS:	BINDER/FILLER VERMICULITE	BINDER/FILLER VERMICULITE	BINDER/FILLER VERMICULITE
DEVIATION FROM TEST METHOD:			

- THIS TEST REPORT RELATES ONLY TO THE ITEMS TESTED AND MUST NOT BE REPRODUCED EXCEPT WITH THE APPROVAL OF THE LABORATORY.
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# Kevco

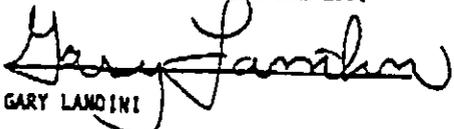
LABORATORY & CONSULTING SERVICES

BULK ASBESTOS SAMPLE ANALYSIS REPORT

REPORT DATE: 2/07/94

TEST METHOD: 40 CFR CH. I (1-1-87 EDITION) PT 763, SUBPT. F APP. A, PAGES 293-299.

REPORT TO: AB/HAZ ENVIRONMENTAL  
2242 Placer Creek  
Las Vegas NV 89115  
ATTENTION: Dennis Price

ANALYST SIGNATURE:   
GARY LANDINI

KEVCO JOB NUMBER:	19817	19817	19817
DATE RECEIVED:	2/02/94	2/02/94	2/02/94
DATE ANALYZED:	2/04/94	2/04/94	2/04/94
CLIENT SAMPLE ID:	1016	1017	1018
PROJECT ID:	BRIDGER BUILDING	BRIDGER BUILDING	BRIDGER BUILDING
SAMPLE LOCATION:	PIPE INSULATION ON LATERAL RUN WOMENS RESTROOM	PIPE INSULATION ON LATERAL RUN ALONG N/E OF LOBBY HALLWAY	PIPE INSULATION ON LATERAL RUN ALONG SE END OF LOBBY HALLWAY
IS THE SAMPLE HOMOGENEOUS?	YES	YES	YES
DOES IT CONTAIN LAYERS?	NO	NO	NO
IS THE SAMPLE FIBROUS?	YES	YES	YES
SAMPLE COLOR:	WHITE	WHITE	WHITE
SAMPLE CONTAIN ASBESTOS FIBERS?	YES	YES	YES
ASBESTOS TYPE AND PERCENT:	CHRYSTOTILE 01 - 02 AMOSITE 35 - 45	CHRYSTOTILE 01 - 02 AMOSITE 35 - 45	CHRYSTOTILE 01 - 02 AMOSITE 35 - 45
TOTAL PERCENT ASBESTOS:	TOTAL: 36 - 47	TOTAL: 36 - 47	TOTAL: 36 - 47
FIBROUS MATERIALS AND PERCENT:		CELLULOSE < 1%	
NONFIBROUS CONSTITUENTS:	BINDER	BINDER	BINDER
DEVIATION FROM TEST METHOD:			

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# Kevco

LABORATORY & CONSULTING SERVICES

BULK ASBESTOS SAMPLE ANALYSIS REPORT

REPORT DATE: 2/07/94

TEST METHOD: 40 CFR CH. I (1-1-87 EDITION) PT 763, SUBPT. F APP. A, PAGES 293-299.

REPORT TO: AB/HAZ ENVIRONMENTAL  
2242 Placer Creek  
Las Vegas  
ATTENTION: Dennis Price

NV. 89115

ANALYST SIGNATURE:

*Gary Landini*  
GARY LANDINI

KEVCO JOB NUMBER:	19817	19817	19817
DATE RECEIVED:	2/02/94	2/02/94	2/02/94
DATE ANALYZED:	2/04/94	2/04/94	2/04/94
CLIENT SAMPLE ID:	1019	1020	1021
PROJECT ID:	BRIDGER BUILDING	BRIDGER BUILDING	BRIDGER BUILDING
SAMPLE LOCATION:	N/W OFFICE/STRUCTURING FIREPROOFING ABOVE DROP CEILING	FLOOR MATERIAL MAINT. HALL *ASB IN TILE & MASTIC	BASE COVE MASTIC HALLWAY WEST SIDE
IS THE SAMPLE HOMOGENEOUS?	YES	NO	NO
DOES IT CONTAIN LAYERS?	NO	YES	YES
IS THE SAMPLE FIBROUS?	YES	NO	NO
SAMPLE COLOR:	LT. GRAY	WHITE/BLACK	WHITE/BLUE/TAN
SAMPLE CONTAIN ASBESTOS FIBERS?	YES	YES	NO
ASBESTOS TYPE AND PERCENT:	CHRYSTOLE 10 - 15	CHRYSTOLE 01 - 05	
TOTAL PERCENT ASBESTOS:	TOTAL: 10 - 15	TOTAL: 1 - 5	0 PERCENT
FIBROUS MATERIALS AND PERCENT:	FIBROUS GLASS < 1% CELLULOSE < 1%	CELLULOSE 01 - 02	CELLULOSE 30 - 35
NONFIBROUS CONSTITUENTS:	BINDER/FILLER VERMICULITE	MATRIX	MATRIX
DEVIATION FROM TEST METHOD:		*1	*1

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- UNDER CURRENT MESHAP REGULATIONS, 40 CFR PART 61, ASBESTOS CONTENT IN SAMPLES WITH LESS THAN 10 PERCENT ASBESTOS MUST BE REVERIFIED BY PLM POINT COUNTING.

\*1 MATRIX OF SAMPLE DISSOLVED IN TETRAHYDROFURAN, HEATED, EVAPORATED, THEN ANALYSIS CONTINUES ACCORDING TO TEST METHOD.

# Kevco

LABORATORY & CONSULTING SERVICES

BULK ASBESTOS SAMPLE ANALYSIS REPORT

REPORT DATE: 2/07/94

TEST METHOD: 40 CFR CH. I (1-1-87 EDITION) PT 763, SUBPT. F APP. A. PAGES 293-299.

REPORT TO: AB/HAZ ENVIRONMENTAL  
2242 Placer Creek  
Las Vegas NV 89115  
ATTENTION: Dennis Price

ANALYST SIGNATURE: *Gary Landini*  
GARY LANDINI

KEVCO JOB NUMBER:	19817	19817	19817
DATE RECEIVED:	2/02/94	2/02/94	2/02/94
DATE ANALYZED:	2/04/94	2/04/94	2/04/94
CLIENT SAMPLE ID:	1022	1023	1024
PROJECT ID:	BRIDGER BUILDING	BRIDGER BUILDING	BRIDGER BUILDING
SAMPLE LOCATION:	STRUCTURAL FIRE-PROOFING CONFERENCE ROOM	THERMAL INSULATION IN CEILING MENS RESTROOM	BEAM STRUCTURE FIREPROOFING MENS RESTROOM
IS THE SAMPLE HOMOGENEOUS?	YES	YES	YES
DOES IT CONTAIN LAYERS?	NO	NO	NO
IS THE SAMPLE FIBROUS?	YES	YES	YES
SAMPLE COLOR:	LT. GRAY	WHITE	LT. GRAY
SAMPLE CONTAIN ASBESTOS FIBERS?	YES	YES	YES
ASBESTOS TYPE AND PERCENT:	CHRYTOSILE 10 - 15	CHRYTOSILE 01 - 02 AMOSITE 35 - 45	CHRYTOSILE 10 - 15
TOTAL PERCENT ASBESTOS:	TOTAL: 10 - 15	TOTAL: 36 - 47	TOTAL: 10 - 15
FIBROUS MATERIALS AND PERCENT:	FIBROUS GLASS < 1% CELLULOSE < 1%		FIBROUS GLASS < 1% CELLULOSE < 1%
NONFIBROUS CONSTITUENTS:	BINDER/FILLER VERMICULITE	BINDER	BINDER/FILLER VERMICULITE
DEVIATION FROM TEST METHOD:			

- THIS TEST REPORT RELATES ONLY TO THE ITEMS TESTED AND MUST NOT BE REPRODUCED EXCEPT WITH THE APPROVAL OF THE LABORATORY.
- ALL SAMPLES WILL BE DISPOSED OF 90 DAYS FOLLOWING SAMPLE RECEIPT UNLESS OTHERWISE INSTRUCTED BY THE CLIENT.
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# Kevco

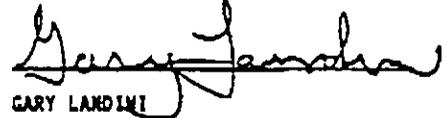
LABORATORY & CONSULTING SERVICES

BULK ASBESTOS SAMPLE ANALYSIS REPORT

REPORT DATE: 2/07/94

TEST METHOD: 40 CFR CH. I (1-1-87 EDITION) PT 763, SUBPT. F APP. A. PAGES 293-299.

REPORT TO: AB/HAZ ENVIRONMENTAL  
2242 Placer Creek  
Las Vegas NV 89115  
ATTENTION: Dennis Price

ANALYST SIGNATURE:   
GARY LANDINI

KEVCO JOB NUMBER:	19817	19817	19817
DATE RECEIVED:	2/02/94	2/02/94	2/02/94
DATE ANALYZED:	2/04/94	2/04/94	2/04/94
CLIENT SAMPLE ID:	1025	1026	1027
PROJECT ID:	BRIDGER BUILDING	BRIDGER BUILDING	BRIDGER BUILDING
SAMPLE LOCATION:	S/W END HALLWAY THERMAL INSULATION	BASE COVE MASTIC IN HALLWAY EAST SIDE	SOUTH SIDE SECRETARY LOBBY STRUCTURAL FIREPROOFING
IS THE SAMPLE HOMOGENEOUS?	YES	NO	YES
DOES IT CONTAIN LAYERS?	NO	YES	NO
IS THE SAMPLE FIBROUS?	YES	NO	YES
SAMPLE COLOR:	WHITE	BROWN/TAN	LT. GRAY
SAMPLE CONTAIN ASBESTOS FIBERS?	YES	NO	YES
ASBESTOS TYPE AND PERCENT:	CHRYBOTILE 01 - 02 AMOSITE 30 - 40		CHRYBOTILE 15 - 20
TOTAL PERCENT ASBESTOS:	TOTAL: 31 - 42	0 PERCENT	TOTAL: 15 - 20
FIBROUS MATERIALS AND PERCENT:	CELLULOSE < 1%	CELLULOSE < 1%	FIBROUS GLASS < 1% CELLULOSE < 1%
NONFIBROUS CONSTITUENTS:	BINDER	MATRIX	BINDER/FILLER
DEVIATION FROM TEST METHOD:		*1	

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\*1 MATRIX OF SAMPLE DISSOLVED IN TETRAHYDROFURAN, HEATED, EVAPORATED, THEN ANALYSIS CONTINUES ACCORDING TO TEST METHOD.

FEB 07 '94 09:45AM KEVCO SERVICES



BULK ASBESTOS SAMPLE ANALYSIS REPORT

REPORT DATE: 2/07/94

TEST METHOD: 40 CFR CH. I (1-1-87 EDITION) PT 763, SUBPT. F APP. A, PAGES 293-299.

REPORT TO: AB/HAZ ENVIRONMENTAL  
2242 Placer Creek  
Las Vegas NV 89115  
ATTENTION: Dennis Price

ANALYST SIGNATURE: *Gary Lardner*  
GARY LARDNER

KEVCO JOB NUMBER:	19817	19817	19817
DATE RECEIVED:	2/02/94	2/02/94	2/02/94
DATE ANALYZED:	2/04/94	2/04/94	2/06/94
CLIENT SAMPLE ID:	1028	1029	1070
PROJECT ID:	BRIDGER BUILDING	BRIDGER BUILDING	BRIDGER BUILDING
SAMPLE LOCATION:	THERMAL PIPE INSULATION WOMENS RESTROOM	STRUCTURAL FIRE-PROOFING WOMENS RESTROOM	CHILLER ROOM PIPE INSULATION ON JOINTS
IS THE SAMPLE HOMOGENEOUS?	YES	YES	NO
DOES IT CONTAIN LAYERS?	NO	NO	NO
IS THE SAMPLE FIBROUS?	YES	YES	NO
SAMPLE COLOR:	WHITE	WHITE	LT. GRAY
SAMPLE CONTAIN ASBESTOS FIBERS?	YES	YES	NO
ASBESTOS TYPE AND PERCENT:	CHRYSTOLE 01 - 02 AMOSITE 35 - 45	CHRYSTOLE 01 - 05	
TOTAL PERCENT ASBESTOS:	TOTAL: 36 - 47	TOTAL: 1 - 5	0 PERCENT
FIBROUS MATERIALS AND PERCENT:		FIBROUS GLASS 30 - 40 CELLULOSE < 1%	FIBROUS GLASS 01 - 02 CELLULOSE 01 - 02
NONFIBROUS CONSTITUENTS:	BINDER	BINDER/GLASS BEADS	BINDER/FILLER
DEVIATION FROM TEST METHOD:			

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# Kevco

LABORATORY & CONSULTING SERVICES

BULK ASBESTOS SAMPLE ANALYSIS REPORT

REPORT DATE: 2/07/94

TEST METHOD: 40 CFR CH. I (1-1-87 EDITION) PT 763, SUBPT. F APP. A. PAGES 293-299.

REPORT TO: AB/HAZ ENVIRONMENTAL  
2242 Placer Creek  
Las Vegas  
ATTENTION: Dennis Price

NV 89115

ANALYST SIGNATURE: Paul Hurm

PAUL HURM

KEVCO JOB NUMBER:	19817	19817	19817
DATE RECEIVED:	2/02/94	2/02/94	2/02/94
DATE ANALYZED:	2/04/94	2/04/94	2/04/94
CLIENT SAMPLE ID:	1030	1031	1032
PROJECT ID:	BRIDGER BUILDING	BRIDGER BUILDING	BRIDGER BUILDING
SAMPLE LOCATION:	BASE COVE MASTIC HALLWAY	FL COVER NW OFFICE *ASB IN TILE (1-5%) AND MASTIC (5-10%)	S END MAIN HALLWAY STRUCTURAL FIRE-PROOFING
IS THE SAMPLE HOMOGENEOUS?	NO	NO	YES
DOES IT CONTAIN LAYERS?	YES	YES	NO
IS THE SAMPLE FIBROUS?	NO	NO	YES
SAMPLE COLOR:	DK. BROWN/BROWN	BLACK/TAN	WHITE
SAMPLE CONTAIN ASBESTOS FIBERS?	NO	YES	YES
ASBESTOS TYPE AND PERCENT:		CHRYSTOLE 05 - 10	CHRYSTOLE 10 - 20
TOTAL PERCENT ASBESTOS:	0 PERCENT	TOTAL: 5 - 10	TOTAL: 10 - 20
FIBROUS MATERIALS AND PERCENT:	CELLULOSE 01 - 02 WOLLASTONITE 01 - 02	CELLULOSE 01 - 02	FIBROUS GLASS < 1% CELLULOSE < 1%
NONFIBROUS CONSTITUENTS:	MATRIX	MATRIX	BINDER/VERMICULITE
DEVIATION FROM TEST METHOD:	*1	*1	

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\*1 MATRIX OF SAMPLE DISSOLVED IN TETRAHYDROFURAN, HEATED, EVAPORATED, THEN ANALYSIS CONTINUES ACCORDING TO TEST METHOD.

# Kevco

LABORATORY & CONSULTING SERVICES

## BULK ASBESTOS SAMPLE ANALYSIS REPORT

REPORT DATE: 2/07/94

REPORT TO: AB/HAZ ENVIRONMENTAL  
 2242 Placer Creek  
 Las Vegas  
 ATTENTION: Dannie Price

NV 89115

TEST METHOD: 40 CFR CH. I (1-1-87 EDITION) PT 763,  
 SUBPT. F APP. A. PAGES 293-299.

ANALYST SIGNATURE:

*Paul Hurn*

PAUL HURN

KEVCO JOB NUMBER:	19817	19817	19817
DATE RECEIVED:	2/02/94	2/02/94	2/02/94
DATE ANALYZED:	2/04/94	2/04/94	2/04/94
CLIENT SAMPLE ID:	1033	1034	1035
PROJECT ID:	BRIDGER BUILDING	BRIDGER BUILDING	BRIDGER BUILDING
SAMPLE LOCATION:	S END HALLWAY THERMAL PIPE INSULATION	N/W OFFICE STRUCTURAL FIRE- PROOFING	THERMAL PIPE INSULATION N/W OFFICE
IS THE SAMPLE HOMOGENEOUS?	YES	YES	YES
DOES IT CONTAIN LAYERS?	NO	NO	NO
IS THE SAMPLE FIBROUS?	YES	YES	YES
SAMPLE COLOR:	WHITE	WHITE	WHITE
SAMPLE CONTAIN ASBESTOS FIBERS?	YES	YES	YES
ASBESTOS TYPE AND PERCENT:	CHRYSOTILE 01 - 02 AMOSITE 35 - 45	CHRYSOTILE 15 - 20	CHRYSOTILE 01 - 02 AMOSITE 35 - 45
TOTAL PERCENT ASBESTOS:	TOTAL: 36 - 47	TOTAL: 15 - 20	TOTAL: 36 - 47
FIBROUS MATERIALS AND PERCENT:	FIBROUS GLASS < 1%	FIBROUS GLASS < 1% CELLULOSE < 1%	
NONFIBROUS CONSTITUENTS:	BINDER	BINDER/VERMICULITE	BINDER
DEVIATION FROM TEST METHOD:			

- THIS TEST REPORT RELATES ONLY TO THE ITEMS TESTED AND MUST NOT BE REPRODUCED EXCEPT WITH THE APPROVAL OF THE LABORATORY.
- ALL SAMPLES WILL BE DISPOSED OF 90 DAYS FOLLOWING SAMPLE RECEIPT UNLESS OTHERWISE INSTRUCTED BY THE CLIENT.
- UNDER CURRENT EPA REGULATIONS, AN "ASBESTOS CONTAINING MATERIAL" CONTAINS MORE THAN ONE PERCENT ASBESTOS.
- UNLESS OTHERWISE STATED, TEST METHOD DOES NOT UTILIZE POINT COUNTING. QUANTITATION OF COMPONENTS BY VISUAL ESTIMATION DURING MACROSCOPIC AND/OR PLM EXAMINATIONS.
- UNDER CURRENT MESHAP REGULATIONS, 40 CFR PART 61, ASBESTOS CONTENT IN SAMPLES WITH LESS THAN 10 PERCENT ASBESTOS MUST BE REVERIFIED BY PLM POINT COUNTING.

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REPORT TO: AB/HAZ ENVIRONMENTAL  
2242 Placer Creek  
Las Vegas  
ATTENTION: Dennis Price

NV 89115

ANALYST SIGNATURE:

*Paul Hurm*

PAUL HURM

KEVCO JOB NUMBER:	19817	19817	19817
DATE RECEIVED:	2/02/94	2/02/94	2/02/94
DATE ANALYZED:	2/04/94	2/04/94	2/04/94
CLIENT SAMPLE ID:	1036	1037	1038
PROJECT ID:	BRIDGER BUILDING	BRIDGER BUILDING	BRIDGER BUILDING
SAMPLE LOCATION:	STRUCTURAL FIRE-PROOFING W/END HALLWAY	THERMAL JOINT INSULATION ON PIPE WEST END HALL	THERMAL JOINT INSULATION MIDDLE OF HALLWAY
IS THE SAMPLE HOMOGENEOUS?	YES	YES	YES
DOES IT CONTAIN LAYERS?	NO	NO	NO
IS THE SAMPLE FIBROUS?	YES	YES	YES
SAMPLE COLOR:	WHITE	WHITE/GRAY	WHITE/GRAY
SAMPLE CONTAIN ASBESTOS FIBERS?	YES	YES	YES
ASBESTOS TYPE AND PERCENT:	CHRYSTOLE 15 - 20	CHRYSTOLE 01 - 05	CHRYSTOLE 01 - 05
TOTAL PERCENT ASBESTOS:	TOTAL: 15 - 20	TOTAL: 1 - 5	TOTAL: 1 - 5
FIBROUS MATERIALS AND PERCENT:	FIBROUS GLASS < 1% CELLULOSE < 1%	FIBROUS GLASS 35 - 45	FIBROUS GLASS 35 - 45
NONFIBROUS CONSTITUENTS:	BINDER/VERMICULITE	BINDER/GLASS BEADS	BINDER/GLASS BEADS
DEVIATION FROM TEST METHOD:			

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REPORT DATE: 2/07/94

TEST METHOD: 40 CFR CK. I (1-1-87 EDITION) PT 763, SUBPT. F APP. A. PAGES 293-299.

REPORT TO: AB/HAZ ENVIRONMENTAL  
2242 Placer Creek  
Las Vegas NV 89115  
ATTENTION: Dennis Price

ANALYST SIGNATURE: Paul Murn

PAUL MURN

KEVCO JOB NUMBER:	19817	19817	19817
DATE RECEIVED:	2/02/94	2/02/94	2/02/94
DATE ANALYZED:	2/04/94	2/05/94	2/05/94
CLIENT SAMPLE ID:	1039	1040	1041
PROJECT ID:	BRIDGER BUILDING	BRIDGER BUILDING	BRIDGER BUILDING
SAMPLE LOCATION:	THERMAL JOINT INSULATION MENS RESTROOM	BASE COVE MASTIC HALLWAY SOUTH END	SOUTH END HALLWAY FIREPROOFING
IS THE SAMPLE HOMOGENEOUS?	YES	NO	YES
DOES IT CONTAIN LAYERS?	NO	YES	NO
IS THE SAMPLE FIBROUS?	YES	NO	YES
SAMPLE COLOR:	WHITE/GRAY	DK. BROWN/BROWN	WHITE
SAMPLE CONTAIN ASBESTOS FIBERS?	YES	NO	YES
ASBESTOS TYPE AND PERCENT:	CHRYSTOLE 01 - 05		CHRYSTOLE 10 - 20
TOTAL PERCENT ASBESTOS:	TOTAL: 1 - 5	0 PERCENT	TOTAL: 10 - 20
FIBROUS MATERIALS AND PERCENT:	FIBROUS GLASS 35 - 45	CELLULOSE 01 - 02 WOLLASTONITE 01 - 02	CELLULOSE < 1%
NONFIBROUS CONSTITUENTS:	BINDER/GLASS BEADS	MATRIX	BINDER/VERMICULITE
DEVIATION FROM TEST METHOD:		*1	

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\*1 MATRIX OF SAMPLE DISSOLVED IN TETRAHYDROFURAN, HEATED, EVAPORATED, THEN ANALYSIS CONTINUES ACCORDING TO TEST METHOD.

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BULK ASBESTOS SAMPLE ANALYSIS REPORT

REPORT DATE: 2/07/94

TEST METHOD: 40 CFR CH. I (1-1-87 EDITION) PT 763, SUBPT. F APP. A, PAGES 293-299.

REPORT TO: AB/HAZ ENVIRONMENTAL  
2242 Placer Creek  
Las Vegas NV 89115  
ATTENTION: Dennis Price

ANALYST SIGNATURE: Paul Hurn

PAUL HURN

KEVCO JOB NUMBER:	19817	19817	19817
DATE RECEIVED:	2/02/94	2/02/94	2/02/94
DATE ANALYZED:	2/05/94	2/05/94	2/05/94
CLIENT SAMPLE ID:	1042	1043	1044
PROJECT ID:	BRIDGER BUILDING	BRIDGER BUILDING	BRIDGER BUILDING
SAMPLE LOCATION:	THERMAL PIPE INSULATION SOUTH END HALLWAY	THERMAL JOINT INSULATION ON PIPE S/END HALLWAY	FIREPROOFING WEST END HALL
IS THE SAMPLE HOMOGENEOUS?	YES	YES	YES
DOES IT CONTAIN LAYERS?	NO	NO	NO
IS THE SAMPLE FIBROUS?	YES	YES	YES
SAMPLE COLOR:	WHITE	WHITE/GRAY	WHITE
SAMPLE CONTAIN ASBESTOS FIBERS?	YES	YES	YES
ASBESTOS TYPE AND PERCENT:	CHRYBOTILE < 1% AMOSITE 35 - 45	CHRYBOTILE 01 - 05	CHRYBOTILE 10 - 20
TOTAL PERCENT ASBESTOS:	TOTAL: 35 - 45	TOTAL: 1 - 5	TOTAL: 10 - 20
FIBROUS MATERIALS AND PERCENT:		FIBROUS GLASS 35 - 45	FIBROUS GLASS < 1%
NONFIBROUS CONSTITUENTS:	BINDER	BINDER/GLASS BEADS	BINDER/VERMICULITE
DEVIATION FROM TEST METHOD:			

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NV 89115

ANALYST SIGNATURE: *Paul Murn*

PAUL MURN

KEYCO JOB NUMBER:	19817	19817	19817
DATE RECEIVED:	2/02/94	2/02/94	2/02/94
DATE ANALYZED:	2/05/94	2/05/94	2/05/94
CLIENT SAMPLE ID:	1045	1046	1047
PROJECT ID:	BRIDGER BUILDING	BRIDGER BUILDING	BRIDGER BUILDING
SAMPLE LOCATION:	THERMAL PIPE INSULATION W/END OF HALLWAY	THERMAL JOINT INSULATION W/HALLWAY	M/W OFFICE FIREPROOFING
IS THE SAMPLE HOMOGENEOUS?	YES	YES	YES
DOES IT CONTAIN LAYERS?	NO	NO	NO
IS THE SAMPLE FIBROUS?	YES	YES	YES
SAMPLE COLOR:	WHITE	WHITE/GRAY	WHITE
SAMPLE CONTAIN ASBESTOS FIBERS?	YES	YES	YES
ASBESTOS TYPE AND PERCENT:	CHRYCOTILE 01 - 02 AMOSITE 35 - 45	CHRYCOTILE 01 - 02	CHRYCOTILE 10 - 20
TOTAL PERCENT ASBESTOS:	TOTAL: 36 - 47	TOTAL: 1 - 2	TOTAL: 10 - 20
FIBROUS MATERIALS AND PERCENT:		FIBROUS GLASS 30 - 40 CELLULOSE < 1%	FIBROUS GLASS < 1%
NONFIBROUS CONSTITUENTS:	BINDER	BINDER/GLASS BEADS	BINDER/VERMICULITE
DEVIATION FROM TEST METHOD:			

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 2242 Placer Creek  
 Las Vegas NV 89115  
 ATTENTION: Dennis Price

ANALYST SIGNATURE: Paul Hurm  
 PAUL HURM

KEYCO JOB NUMBER:	19817	19817	19817
DATE RECEIVED:	2/02/94	2/02/94	2/02/94
DATE ANALYZED:	2/05/94	2/05/94	2/05/94
CLIENT SAMPLE ID:	1048	1049	1050
PROJECT ID:	BRIDGER BUILDING	BRIDGER BUILDING	BRIDGER BUILDING
SAMPLE LOCATION:	THERMAL PIPE INSULATION N/W OFFICE	THERMAL JOINT INSULATION N/W OFFICE	BASE COCE MASTIC ON WALL S/END MALLWAY
IS THE SAMPLE HOMOGENEOUS?	YES	YES	NO
DOES IT CONTAIN LAYERS?	NO	NO	YES
IS THE SAMPLE FIBROUS?	YES	YES	NO
SAMPLE COLOR:	WHITE	WHITE/GRAY	BROWN/DK. BROWN
SAMPLE CONTAIN ASBESTOS FIBERS?	YES	YES	NO
ASBESTOS TYPE AND PERCENT:	CHRYSTOLE 01 - 02 AMOSITE 40 - 45	CHRYSTOLE 01 - 05	
TOTAL PERCENT ASBESTOS:	TOTAL: 41 - 47	TOTAL: 1 - 5	0 PERCENT
FIBROUS MATERIALS AND PERCENT:		FIBROUS GLASS 30 - 40	CELLULOSE 01 - 02 WOLLASTONITE 01 - 02
NONFIBROUS CONSTITUENTS:	BINDER	BINDER/GLASS BEADS	MATRIX
DEVIATION FROM TEST METHOD:			*1

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2242 Placer Creek  
Las Vegas

NV 89115

ANALYST SIGNATURE: Paul Hurn

PAUL HURN

KEVCO JOB NUMBER:	19817	19817	19817
DATE RECEIVED:	2/02/94	2/02/94	2/02/94
DATE ANALYZED:	2/05/94	2/05/94	2/05/94
CLIENT SAMPLE ID:	1051	1052	1053
PROJECT ID:	BRIDGER BUILDING	BRIDGER BUILDING	BRIDGER BUILDING
SAMPLE LOCATION:	FIREPROOFING ON BEAMING CONFERENCE ROOM	THERMAL PIPE INSULATION CONFERENCE ROOM	PIPE JOINT INSULATION CONFERENCE ROOM
IS THE SAMPLE HOMOGENEOUS?	YES	YES	YES
DOES IT CONTAIN LAYERS?	NO	NO	NO
IS THE SAMPLE FIBROUS?	YES	YES	YES
SAMPLE COLOR:	WHITE	WHITE	WHITE/GRAY
SAMPLE CONTAIN ASBESTOS FIBERS?	YES	YES	YES
ASBESTOS TYPE AND PERCENT:	CHRYSTOLE 15 - 20	CHRYSTOLE 01 - 02 AMOSITE 35 - 45	CHRYSTOLE 01 - 05
TOTAL PERCENT ASBESTOS:	TOTAL: 15 - 20	TOTAL: 36 - 47	TOTAL: 1 - 5
FIBROUS MATERIALS AND PERCENT:	FIBROUS GLASS < 1% CELLULOSE < 1%		FIBROUS GLASS 30 - 40 CELLULOSE < 1%
NONFIBROUS CONSTITUENTS:	BINDER/VERMICULITE	BINDER	BINDER/GLASS BEADS
DEVIATION FROM TEST METHOD:			

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2242 Placer Creek  
Las Vegas

NV 89115

ANALYST SIGNATURE: Paul Hurm

PAUL HURM

KEYCO JOB NUMBER:	19817	19817	19817
DATE RECEIVED:	2/02/94	2/02/94	2/02/94
DATE ANALYZED:	2/05/94	2/05/94	2/05/94
CLIENT SAMPLE ID:	1054	1055	1056
PROJECT ID:	BRIDGER BUILDING	BRIDGER BUILDING	BRIDGER BUILDING
SAMPLE LOCATION:	N/E LOBBY FIREPROOFING	THERMAL PIPE INSULATION N/W LOBBY	THERMAL JOINT INSULATION S/E HALLWAY
IS THE SAMPLE HOMOGENEOUS?	YES	YES	YES
DOES IT CONTAIN LAYERS?	NO	NO	NO
IS THE SAMPLE FIBROUS?	YES	YES	YES
SAMPLE COLOR:	WHITE	WHITE	WHITE/GRAY
SAMPLE CONTAIN ASBESTOS FIBERS?	YES	YES	YES
ASBESTOS TYPE AND PERCENT:	CHRYBOTILE 10 - 20	CHRYBOTILE 01 - 02 AMOSITE 40 - 45	CHRYBOTILE 01 - 05
TOTAL PERCENT ASBESTOS:	TOTAL: 10 - 20	TOTAL: 41 - 47	TOTAL: 1 - 5
FIBROUS MATERIALS AND PERCENT:	CELLULOSE < 1%		FIBROUS GLASS 35 - 45
NONFIBROUS CONSTITUENTS:	BINDER/VERMICULITE	BINDER	BINDER/GLASS BEADS
DEVIATION FROM TEST METHOD:			

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ATTENTION: Dennis Price

NV 89115

ANALYST SIGNATURE:

*Paul Hurn*

PAUL HURN

KEVCO JOB NUMBER:	19817	19817	19817
DATE RECEIVED:	2/02/94	2/02/94	2/02/94
DATE ANALYZED:	2/05/94	2/05/94	2/05/94
CLIENT SAMPLE ID:	1057	1058	1059
PROJECT ID:	BRIDGER BUILDING	BRIDGER BUILDING	BRIDGER BUILDING
SAMPLE LOCATION:	FIREPROOFING S/W HALLWAY	PIPE INSULATION S/W HALLWAY	THERMAL JOINT INSULATION N/W LOBBY
IS THE SAMPLE HOMOGENEOUS?	YES	YES	YES
DOES IT CONTAIN LAYERS?	NO	NO	NO
IS THE SAMPLE FIBROUS?	YES	YES	YES
SAMPLE COLOR:	WHITE	WHITE	WHITE/GRAY
SAMPLE CONTAIN ASBESTOS FIBERS?	YES	YES	YES
ASBESTOS TYPE AND PERCENT:	CHRYSTILE 10 - 20	CHRYSTILE 01 - 05 AMOSITE 30 - 40	CHRYSTILE 01 - 05
TOTAL PERCENT ASBESTOS:	TOTAL: 10 - 20	TOTAL: 31 - 45	TOTAL: 1 - 5
FIBROUS MATERIALS AND PERCENT:	FIBROUS GLASS < 1% CELLULOSE < 1%	CELLULOSE < 1%	FIBROUS GLASS 30 - 40
NONFIBROUS CONSTITUENTS:	BINDER/VERMICULITE	BINDER	BINDER/GLASS BEADS
DEVIATION FROM TEST METHOD:			

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 ATTENTION: Dennis Price

ANALYST SIGNATURE: Paul Hurn  
 PAUL HURN

KEYCO JOB NUMBER:	19817	19817	19817
DATE RECEIVED:	2/02/94	2/02/94	2/02/94
DATE ANALYZED:	2/05/94	2/05/94	2/05/94
CLIENT SAMPLE ID:	1060	1061	1062
PROJECT ID:	BRIDGER BUILDING	BRIDGER BUILDING	BRIDGER BUILDING
SAMPLE LOCATION:	FL TILE N/W SEC. RM. *ASB IN TILE (1-5%) AND MASTIC (5-10%)	THERMAL PIPE INSULATION LOBBY	FIREPROOFING LOBBY BEAMS
IS THE SAMPLE HOMOGENEOUS?	NO	YES	YES
DOES IT CONTAIN LAYERS?	YES	NO	NO
IS THE SAMPLE FIBROUS?	NO	YES	YES
SAMPLE COLOR:	TAN/BLACK	WHITE	WHITE
SAMPLE CONTAIN ASBESTOS FIBERS?	YES	YES	YES
ASBESTOS TYPE AND PERCENT:	CHRYBOTILE 01 - 05	CHRYBOTILE 01 - 02 AMOSITE 40 - 50	CHRYBOTILE 10 - 20
TOTAL PERCENT ASBESTOS:	TOTAL: 1 - 5	TOTAL: 41 - 52	TOTAL: 10 - 20
FIBROUS MATERIALS AND PERCENT:	CELLULOSE 01 - 02		FIBROUS GLASS < 1%
NONFIBROUS CONSTITUENTS:	MATRIX	BINDER	BINDER/VERMICULITE
DEVIATION FROM TEST METHOD:	*1		

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\*1 MATRIX OF SAMPLE DISSOLVED IN TETRAHYDROFURAN, HEATED, EVAPORATED, THEN ANALYSIS CONTINUES ACCORDING TO TEST METHOD.

FEB 07 '94 09:54AM KEVCO SERVICES

# KEVCO

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BULK ASBESTOS SAMPLE ANALYSIS REPORT

REPORT DATE: 2/07/94

TEST METHOD: 40 CFR CH. I (1-1-87 EDITION) PT 763, SUBPT. F APP. A. PAGES 293-299.

REPORT TO: AB/HAZ ENVIRONMENTAL  
2242 Placer Creek  
Las Vegas NV 89115  
ATTENTION: Dennis Price

ANALYST SIGNATURE: Paul Hurm  
PAUL HURM

KEVCO JOB NUMBER:	19817	19817	19817
DATE RECEIVED:	2/02/94	2/02/94	2/02/94
DATE ANALYZED:	2/05/94	2/05/94	2/07/94
CLIENT SAMPLE ID:	1063	1064	1065
PROJECT ID:	BRIDGER BUILDING	BRIDGER BUILDING	BRIDGER BUILDING
SAMPLE LOCATION:	THERMAL JOINT INSULATION ON PIPE LOBBY	FIREPROOFING SW LOUNGE ROOM	THERMAL PIPE INSUL. S/W LOBBY
IS THE SAMPLE HOMOGENEOUS?	YES	YES	YES
DOES IT CONTAIN LAYERS?	NO	NO	NO
IS THE SAMPLE FIBROUS?	NO	YES	YES
SAMPLE COLOR:	WHITE	WHITE	WHITE
SAMPLE CONTAIN ASBESTOS FIBERS?	NO	YES	YES
ASBESTOS TYPE AND PERCENT:		CHRYSTOTILE 10 - 20	CHRYSTOTILE 01 - 02 AMOSITE 30 - 40
TOTAL PERCENT ASBESTOS:	0 PERCENT	TOTAL: 10 - 20	TOTAL: 31 - 42
FIBROUS MATERIALS AND PERCENT:	FIBROUS GLASS 01 - 02 CELLULOSE 01 - 02	CELLULOSE < 1%	FIBROUS GLASS < 1% CELLULOSE < 1%
NONFIBROUS CONSTITUENTS:	BINDER/FILLER	BINDER/VERMICULITE	BINDER
DEVIATION FROM TEST METHOD:			

- THIS TEST REPORT RELATES ONLY TO THE ITEMS TESTED AND MUST NOT BE REPRODUCED EXCEPT WITH THE APPROVAL OF THE LABORATORY.
- ALL SAMPLES WILL BE DISPOSED OF 90 DAYS FOLLOWING SAMPLE RECEIPT UNLESS OTHERWISE INSTRUCTED BY THE CLIENT.
- UNDER CURRENT EPA REGULATIONS, AN "ASBESTOS CONTAINING MATERIAL" CONTAINS MORE THAN ONE PERCENT ASBESTOS.
- UNLESS OTHERWISE STATED, TEST METHOD DOES NOT UTILIZE POINT COUNTING. QUANTITATION OF COMPONENTS BY VISUAL ESTIMATION DURING MACROSCOPIC AND/OR PLM EXAMINATIONS.
- UNDER CURRENT NESHAP REGULATIONS, 40 CFR PART 61, ASBESTOS CONTENT IN SAMPLES WITH LESS THAN 10 PERCENT ASBESTOS MUST BE REVERIFIED BY PLM POINT COUNTING.

# **Kevco**

LABORATORY & CONSULTING SERVICES

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REPORT TO: AB/HAZ ENVIRONMENTAL  
2242 Placer Creek  
Las Vegas NV 89115  
ATTENTION: Dennis Price

ANALYST SIGNATURE: Paul Hurm  
PAUL HURM

KEYCO JOB NUMBER:	19817	19817	19817
DATE RECEIVED:	2/02/94	2/02/94	2/02/94
DATE ANALYZED:	2/07/94	2/07/94	2/07/94
CLIENT SAMPLE ID:	1066	1057	1068
PROJECT ID:	BRIDGER BUILDING	BRIDGER BUILDING	BRIDGER BUILDING
SAMPLE LOCATION:	THERMAL PIPE JOINT INSUL. S/W LOBBY	BASE COVE MASTIC N/W LOBBY	N/W RECEPTION AREA FIREPROOFING
IS THE SAMPLE HOMOGENEOUS?	YES	YES	YES
DOES IT CONTAIN LAYERS?	NO	YES	NO
IS THE SAMPLE FIBROUS?	NO	NO	YES
SAMPLE COLOR:	WHITE	BROWN	WHITE
SAMPLE CONTAIN ASBESTOS FIBERS?	NO	NO	YES
ASBESTOS TYPE AND PERCENT:			CHRYSTILE 10 - 20
TOTAL PERCENT ASBESTOS:	0 PERCENT	0 PERCENT	TOTAL: 10 - 20
FIBROUS MATERIALS AND PERCENT:	FIBROUS GLASS < 1% CELLULOSE 01 - 02 SYNTHETIC < 1%	CELLULOSE < 1% WOLLASTONITE 01 - 02	FIBROUS GLASS < 1%
NONFIBROUS CONSTITUENTS:	BINDER/FILLER	MATRIX	BINDER/VERMICULITE
DEVIATION FROM TEST METHOD:		*1	

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\*1 MATRIX OF SAMPLE DISSOLVED IN TETRAHYDROFURAN, HEATED, EVAPORATED, THEN ANALYSIS CONTINUES ACCORDING TO TEST METHOD.

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BULK ASBESTOS SAMPLE ANALYSIS REPORT

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TEST METHOD: 40 CFR CH. I (1-1-87 EDITION) PT 763,  
SUBPT. F APP. A. PAGES 293-299.

REPORT TO: AB/HAZ ENVIRONMENTAL  
2242 Placer Creek  
Las Vegas NV 89115  
ATTENTION: Dennis Price

ANALYST SIGNATURE: Paul Hurn  
PAUL HURN

KEVCO JOB NUMBER:	19817		
DATE RECEIVED:	2/02/94		
DATE ANALYZED:	2/07/94		
CLIENT SAMPLE ID:	1069		
PROJECT ID:	BRIDGER BUILDING		
SAMPLE LOCATION:	THERMAL PIPE INSUL. N/W RECEPTION		
IS THE SAMPLE HOMOGENEOUS?	YES		
DOES IT CONTAIN LAYERS?	NO		
IS THE SAMPLE FIBROUS?	YES		
SAMPLE COLOR:	WHITE		
SAMPLE CONTAIN ASBESTOS FIBERS?	YES		
ASBESTOS TYPE AND PERCENT:	CHRYBOTILE 01 - 02 AMOSITE 30 - 40		
TOTAL PERCENT ASBESTOS:	TOTAL: 31 - 42		
FIBROUS MATERIALS AND PERCENT:			
NONFIBROUS CONSTITUENTS:	BINDER		
DEVIATION FROM TEST METHOD:			

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## BULK ASBESTOS SAMPLE ANALYSIS REPORT

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REPORT TO: AB/HAZ ENVIRONMENTAL  
2242 Placer Creek  
Las Vegas NV 89115  
ATTENTION: Dennis Price

ANALYST SIGNATURE: *Gary Landini*  
GARY LANDINI

KEVCO JOB NUMBER:	19817	19817	19817
DATE RECEIVED:	2/02/94	2/02/94	2/02/94
DATE ANALYZED:	2/06/94	2/06/94	2/06/94
CLIENT SAMPLE ID:	1071	1072	1073
PROJECT ID:	BRIDGER BUILDING	BRIDGER BUILDING	BRIDGER BUILDING
SAMPLE LOCATION:	EXTERIOR CEILING PLASTER NORTH SIDE	FIREPROOFING ON STRUCT. BEAMS NORTH SIDE ABOVE CEILING	THERMAL JOINT INSULATION ON PIPE CHILLER ROOM
IS THE SAMPLE HOMOGENEOUS?	NO	YES	NO
DOES IT CONTAIN LAYERS?	NO	NO	NO
IS THE SAMPLE FIBROUS?	NO	YES	NO
SAMPLE COLOR:	GRAY	GRAY	LT. GRAY
SAMPLE CONTAIN ASBESTOS FIBERS?	YES	YES	NO
ASBESTOS TYPE AND PERCENT:	CHRYBOTILE < 1%	CHRYBOTILE 10 - 15	
TOTAL PERCENT ASBESTOS:	LESS THAN 1 PERCENT	TOTAL: 10 - 15	0 PERCENT
FIBROUS MATERIALS AND PERCENT:	CELLULOSE < 1%	FIBROUS GLASS < 1%	FIBROUS GLASS 01 - 05 CELLULOSE 01 - 02
NONFIBROUS CONSTITUENTS:	BINDER/FILLER	BINDER/FILLER VERMICULITE	BINDER/FILLER
DEVIATION FROM TEST METHOD:			

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2242 Placer Creek  
Las Vegas NV 89115  
ATTENTION: Dennis Price

ANALYST SIGNATURE:

GARY LANGRISH

KEVCO JOB NUMBER:	19817	19817	19817
DATE RECEIVED:	2/02/94	2/02/94	2/02/94
DATE ANALYZED:	2/06/94	2/06/94	2/06/94
CLIENT SAMPLE ID:	1074	1075	1076
PROJECT ID:	BRIDGER BUILDING	BRIDGER BUILDING	BRIDGER BUILDING
SAMPLE LOCATION:	THERMAL PIPE INSUL. CHILLER ROOM	THERMAL PIPE INSUL. PARKING GARAGE ABOVE PLASTER CEILING	FIREPROOFING ON BEAMS ON SOFFIT
IS THE SAMPLE HOMOGENEOUS?	YES	YES	YES
DOES IT CONTAIN LAYERS?	NO	NO	NO
IS THE SAMPLE FIBROUS?	YES	YES	YES
SAMPLE COLOR:	WHITE	WHITE	LT. GRAY
SAMPLE CONTAIN ASBESTOS FIBERS?	YES	YES	YES
ASBESTOS TYPE AND PERCENT:	CHRYSTOLE 01 - 02 AMOSITE 35 - 45	CHRYSTOLE 01 - 02 AMOSITE 35 - 45	CHRYSTOLE 10 - 15
TOTAL PERCENT ASBESTOS:	TOTAL: 36 - 47	TOTAL: 36 - 47	TOTAL: 10 - 15
FIBROUS MATERIALS AND PERCENT:		CELLULOSE < 1%	FIBROUS GLASS < 1% CELLULOSE < 1%
NONFIBROUS CONSTITUENTS:	BINDER	BINDER	BINDER/FILLER VERMICULITE
DEVIATION FROM TEST METHOD:			

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2242 Placer Creek  
Las Vegas NV 89115  
ATTENTION: Dennis Price

ANALYST SIGNATURE: *Gary Landini*  
GARY LANDINI

KEYCO JOB NUMBER:	19817	19817	19817
DATE RECEIVED:	2/02/94	2/02/94	2/02/94
DATE ANALYZED:	2/06/94	2/06/94	2/06/94
CLIENT SAMPLE ID:	1077	1078	1079
PROJECT ID:	BRIDGER BUILDING	BRIDGER BUILDING	BRIDGER BUILDING
SAMPLE LOCATION:	FIREPROOFING ON BEAMS MECH. ROOM	THERMAL PIPE INSUL. ABOVE CEILING MECH. ROOM	PIPE JOINT INSUL. ABOVE CEILING MECH. ROOM
IS THE SAMPLE HOMOGENEOUS?	YES	YES	NO
DOES IT CONTAIN LAYERS?	NO	NO	NO
IS THE SAMPLE FIBROUS?	YES	YES	NO
SAMPLE COLOR:	LT. GRAY	WHITE	LT. GRAY
SAMPLE CONTAIN ASBESTOS FIBERS?	YES	YES	NO
ASBESTOS TYPE AND PERCENT:	CHRYSTOLE 15 - 20	CHRYSTOLE 01 - 02 AMOSITE 30 - 40	
TOTAL PERCENT ASBESTOS:	TOTAL: 15 - 20	TOTAL: 31 - 42	0 PERCENT
FIBROUS MATERIALS AND PERCENT:	FIBROUS GLASS < 1%	CELLULOSE < 1%	FIBROUS GLASS 01 - 02 CELLULOSE < 1%
NONFIBROUS CONSTITUENTS:	BINDER/FILLER VERMICULITE	BINDER	BINDER/FILLER
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2242 Placer Creek  
Las Vegas NV 89115  
ATTENTION: Dennis Price

ANALYST SIGNATURE: *Gary Landin*  
GARY LANDIN

KEYCO JOB NUMBER:	19817	19817	19817
DATE RECEIVED:	2/02/94	2/02/94	2/02/94
DATE ANALYZED:	2/06/94	2/06/94	2/06/94
CLIENT SAMPLE ID:	1080	1081	1082
PROJECT ID:	BRIDGER BUILDING	BRIDGER BUILDING	BRIDGER BUILDING
SAMPLE LOCATION:	FIREPROOFING ABOVE PLASTER LATHE CEILING	PIPE JOINT INSULAT. ABOVE CEILING IN PARKING GARAGE	THERMAL PIPE INSUL. PARKING GARAGE ABOVE PLASTER CEIL.
IS THE SAMPLE HOMOGENEOUS?	YES	NO	YES
DOES IT CONTAIN LAYERS?	NO	NO	NO
IS THE SAMPLE FIBROUS?	YES	NO	YES
SAMPLE COLOR:	GRAY	LT. GRAY	WHITE
SAMPLE CONTAIN ASBESTOS FIBERS?	YES	NO	YES
ASBESTOS TYPE AND PERCENT:	CHRYSTILE 10 - 15		CHRYSTILE 01 - 02 AMOSITE 35 - 45
TOTAL PERCENT ASBESTOS:	TOTAL: 10 - 15	0 PERCENT	TOTAL: 36 - 47
FIBROUS MATERIALS AND PERCENT:	FIBROUS GLASS < 1% CELLULOSE < 1%	FIBROUS GLASS < 1% CELLULOSE < 1%	CELLULOSE < 1%
NONFIBROUS CONSTITUENTS:	BINDER/FILLER VERMICULITE	BINDER/FILLER	BINDER
DEVIATION FROM TEST METHOD:			

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ANALYST SIGNATURE: *Gary Landini*  
GARY LANDINI

REPORT TO: AB/HAZ ENVIRONMENTAL  
2242 Placer Creek  
Las Vegas NV 89115  
ATTENTION: Dennis Price

	19817 2/02/94 2/06/94	19817 2/02/94 2/06/94	19817 2/02/94 2/06/94
KEYCO JOB NUMBER:			
DATE RECEIVED:			
DATE ANALYZED:			
CLIENT SAMPLE ID:	1083	1084	1085
PROJECT ID:	BRIDGER BUILDING	BRIDGER BUILDING	BRIDGER BUILDING
SAMPLE LOCATION:	"EXTERIOR" SURFACE PLASTER PARKING GARAGE	THERMAL PIPE INSUL. ABOVE PLASTER CEIL. PARKING GARAGE	THERMAL PIPE JOINT INSULATION
IS THE SAMPLE HOMOGENEOUS?	NO	YES	NO
DOES IT CONTAIN LAYERS?	NO	NO	NO
IS THE SAMPLE FIBROUS?	NO	YES	NO
SAMPLE COLOR:	GRAY	WHITE	LT. GRAY
SAMPLE CONTAIN ASBESTOS FIBERS?	YES	YES	YES
ASBESTOS TYPE AND PERCENT:	CHRYSTOTILE < 1%	CHRYSTOTILE 01 - 02 AMOSITE 35 - 45	CHRYSTOTILE 01 - 02
TOTAL PERCENT ASBESTOS:	LESS THAN 1 PERCENT	TOTAL: 36 - 47	TOTAL: 1 - 2
FIBROUS MATERIALS AND PERCENT:	FIBROUS GLASS < 1% CELLULOSE < 1%		FIBROUS GLASS 05 - 10 CELLULOSE < 1%
NONFIBROUS CONSTITUENTS:	BINDER/FILLER	BINDER	BINDER/FILLER GLASS BEADS
DEVIATION FROM TEST METHOD:			

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Las Vegas NV 89115  
ATTENTION: Dennis Price

ANALYST SIGNATURE: *Gary Landini*  
GARY LANDINI

KEYCO JOB NUMBER:	19817	19817	19817
DATE RECEIVED:	2/02/94	2/02/94	2/02/94
DATE ANALYZED:	2/06/94	2/06/94	2/06/94
CLIENT SAMPLE ID:	1086	1087	1088
PROJECT ID:	BRIDGER BUILDING	BRIDGER BUILDING	BRIDGER BUILDING
SAMPLE LOCATION:	THERMAL PIPE JOINT INSULATION	FIREPROOFING ON STRUCTURE BEAMS	FIREPROOFING ON STRUCTURE BEAMS
IS THE SAMPLE HOMOGENEOUS?	YES	YES	YES
DOES IT CONTAIN LAYERS?	NO	NO	NO
IS THE SAMPLE FIBROUS?	YES	YES	YES
SAMPLE COLOR:	LT. GRAY	GRAY	GRAY
SAMPLE CONTAIN ASBESTOS FIBERS?	YES	YES	YES
ASBESTOS TYPE AND PERCENT:	CHRYSTILE 01 - 05	CHRYSTILE 10 - 15	CHRYSTILE 10 - 15
TOTAL PERCENT ASBESTOS:	TOTAL: 1 - 5	TOTAL: 10 - 15	TOTAL: 10 - 15
FIBROUS MATERIALS AND PERCENT:	FIBROUS GLASS 15 - 25 CELLULOSE < 1%	FIBROUS GLASS < 1% CELLULOSE < 1%	FIBROUS GLASS < 1%
NONFIBROUS CONSTITUENTS:	BINDER/FILLER/GLASS BEADS	BINDER/FILLER/VERMICULITE	BINDER/FILLER/VERMICULITE
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Las Vegas NV 89115  
ATTENTION: Dennis Price

ANALYST SIGNATURE:

*Gary Landini*  
GARY LANDINI

KEVCO JOB NUMBER: DATE RECEIVED: DATE ANALYZED:	19817 2/02/94 2/06/94	19817 2/02/94 2/06/94	19817 2/02/94 2/06/94
CLIENT SAMPLE ID: PROJECT ID:	1089 BRIDGER BUILDING	1090 BRIDGER BUILDING	1091 BRIDGER BUILDING
SAMPLE LOCATION:	THERMAL PIPE INSUL.	"EXTERIOR" SURFACE PLASTER	SPRAY ON BEAMS ABOVE COMMISSIONERS CHAMBERS
IS THE SAMPLE HOMOGENEOUS?	YES	NO	YES
DOES IT CONTAIN LAYERS?	NO	NO	NO
IS THE SAMPLE FIBROUS?	YES	NO	YES
SAMPLE COLOR:	WHITE	GRAY	GRAY
SAMPLE CONTAIN ASBESTOS FIBERS?	YES	YES	YES
ASBESTOS TYPE AND PERCENT:	CHRYSTOLE 01 - 02 AMOSITE 35 - 45	CHRYSTOLE < 1%	CHRYSTOLE 10 - 15
TOTAL PERCENT ASBESTOS:	TOTAL: 36 - 47	LESS THAN 1 PERCENT	TOTAL: 10 - 15
FIBROUS MATERIALS AND PERCENT:		FIBROUS GLASS < 1% CELLULOSE < 1%	FIBROUS GLASS < 1% CELLULOSE < 1% SYNTHETIC < 1%
NONFIBROUS CONSTITUENTS:	BINDER	BINDER/FILLER	BINDER/FILLER VERMICULITE
DEVIATION FROM TEST METHOD:			

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REPORT TO: AB/NAZ ENVIRONMENTAL  
2242 Placer Creek  
Las Vegas NV 89115  
ATTENTION: Dennis Price

ANALYST SIGNATURE: *Gary Taworni*

GARY TAWORNI

KEVCO JOB NUMBER:	19817	19817	19817
DATE RECEIVED:	2/02/94	2/02/94	2/02/94
DATE ANALYZED:	2/06/94	2/06/94	2/06/94
CLIENT SAMPLE ID: PROJECT ID:	1092 BRIDGER BUILDING	1093 BRIDGER BUILDING	1094 BRIDGER BUILDING
SAMPLE LOCATION:	COMMISSIONERS CHMBS SPRAY BEAMS?? ID CROSS LABELLED????	COMMISSIONERS CHMBS WATER PIPE INSUL.	FRONT LOBBY AREA ABOVE CEILING THERMAL MUD ON ELBOW
IS THE SAMPLE HOMOGENEOUS?	YES	YES	YES
DOES IT CONTAIN LAYERS?	NO	NO	NO
IS THE SAMPLE FIBROUS?	YES	YES	YES
SAMPLE COLOR:	WHITE	WHITE	GRAY
SAMPLE CONTAIN ASBESTOS FIBERS?	YES	YES	YES
ASBESTOS TYPE AND PERCENT:	CHRYSTOTILE 01 - 02 AMOSITE 30 - 40	CHRYSTOTILE 01 - 02 AMOSITE 35 - 45	CHRYSTOTILE 01 - 05
TOTAL PERCENT ASBESTOS:	TOTAL: 31 - 42	TOTAL: 36 - 47	TOTAL: 1 - 5
FIBROUS MATERIALS AND PERCENT:	FIBROUS GLASS 01 - 02 CELLULOSE 30 - 40	CELLULOSE < 1%	FIBROUS GLASS 25 - 35 CELLULOSE < 1%
NONFIBROUS CONSTITUENTS:	BINDER	BINDER	BINDER/FILLER GLASS BEADS
DEVIATION FROM TEST METHOD:			

- THIS TEST REPORT RELATES ONLY TO THE ITEMS TESTED AND MUST NOT BE REPRODUCED EXCEPT WITH THE APPROVAL OF THE LABORATORY.
- ALL SAMPLES WILL BE DISPOSED OF 90 DAYS FOLLOWING SAMPLE RECEIPT UNLESS OTHERWISE INSTRUCTED BY THE CLIENT.
- UNDER CURRENT EPA REGULATIONS, AN "ASBESTOS CONTAINING MATERIAL" CONTAINS MORE THAN ONE PERCENT ASBESTOS.
- UNLESS OTHERWISE STATED, TEST METHOD DOES NOT UTILIZE POINT COUNTING. QUANTITATION OF COMPONENTS BY VISUAL ESTIMATION DURING MACROSCOPIC AND/OR PLM EXAMINATIONS.
- UNDER CURRENT MESHAP REGULATIONS, 40 CFR PART 61, ASBESTOS CONTENT IN SAMPLES WITH LESS THAN 10 PERCENT ASBESTOS MUST BE REVERIFIED BY PLM POINT COUNTING.

# Kevco

LABORATORY & CONSULTING SERVICES

BULK ASBESTOS SAMPLE ANALYSIS REPORT

REPORT DATE: 2/07/94

TEST METHOD: 40 CFR CH. I (1-1-87 EDITION) PT 763, SUBPT. F APP. A. PAGES 293-299.

REPORT TO: AB/HAZ ENVIRONMENTAL  
2242 Placer Creek  
Las Vegas NV 89115  
ATTENTION: Dennis Price

ANALYST SIGNATURE: Gary Landin  
GARY LANDIN

KEYCO JOB NUMBER:	19817	19817	19817
DATE RECEIVED:	2/02/94	2/02/94	2/02/94
DATE ANALYZED:	2/06/94	2/06/94	2/06/94
CLIENT SAMPLE ID:	1095	1096	1097
PROJECT ID:	BRIDGER BUILDING	BRIDGER BUILDING	BRIDGER BUILDING
SAMPLE LOCATION:	MAINT RM. ABOVE HARD DROP CEILING FIREPROOFING	FL TILE HALLWAY TO SIDE EXIT ALLEY *ASB IN TILE AND MASTIC	SPRAY ON BEAMS ABOVE DROP CEILING IN EXIT HALLWAY
IS THE SAMPLE HOMOGENEOUS?	YES	NO	YES
DOES IT CONTAIN LAYERS?	NO	YES	NO
IS THE SAMPLE FIBROUS?	YES	NO	YES
SAMPLE COLOR:	GRAY	OFF-WHITE/BLACK	GRAY
SAMPLE CONTAIN ASBESTOS FIBERS?	YES	YES	YES
ASBESTOS TYPE AND PERCENT:	CHRYSTOLE 10 - 15	CHRYSTOLE 01 - 05	CHRYSTOLE 10 - 15
TOTAL PERCENT ASBESTOS:	TOTAL: 10 - 15	TOTAL: 1 - 5	TOTAL: 10 - 15
FIBROUS MATERIALS AND PERCENT:	FIBROUS GLASS < 1% CELLULOSE < 1%	CELLULOSE 01 - 02 SYNTHETIC < 1%	FIBROUS GLASS < 1% CELLULOSE < 1%
NONFIBROUS CONSTITUENTS:	BINDER/FILLER VERMICULITE	MATRIX	BINDER/FILLER VERMICULITE
DEVIATION FROM TEST METHOD:		*1	

- THIS TEST REPORT RELATES ONLY TO THE ITEMS TESTED AND MUST NOT BE REPRODUCED EXCEPT WITH THE APPROVAL OF THE LABORATORY.
- ALL SAMPLES WILL BE DISPOSED OF 90 DAYS FOLLOWING SAMPLE RECEIPT UNLESS OTHERWISE INSTRUCTED BY THE CLIENT.
- UNDER CURRENT EPA REGULATIONS, AN "ASBESTOS CONTAINING MATERIAL" CONTAINS MORE THAN ONE PERCENT ASBESTOS.
- UNLESS OTHERWISE STATED, TEST METHOD DOES NOT UTILIZE POINT COUNTING. QUANTITATION OF COMPONENTS BY VISUAL ESTIMATION DURING MACROSCOPIC AND/OR PLM EXAMINATIONS.
- UNDER CURRENT NESHAP REGULATIONS, 40 CFR PART 61, ASBESTOS CONTENT IN SAMPLES WITH LESS THAN 10 PERCENT ASBESTOS MUST BE REVERIFIED BY PLM POINT COUNTING.

\*1 MATRIX OF SAMPLE DISSOLVED IN TETRAHYDROFURAN, HEATED, EVAPORATED, THEN ANALYSIS CONTINUES ACCORDING TO TEST METHOD.

# Kevco

LABORATORY & CONSULTING SERVICES

BULK ASBESTOS SAMPLE ANALYSIS REPORT

REPORT DATE: 2/07/94

TEST METHOD: 40 CFR CH. 1 (1-1-87 EDITION) PT 763  
SUBPT. F APP. A. PAGES 293-299.

REPORT TO: AB/MAZ ENVIRONMENTAL  
2242 Placer Creek  
Las Vegas NV 89115  
ATTENTION: Dennis Price

ANALYST SIGNATURE: *Gary Emblin*  
GARY EMBLIN

KEVCO JOB NUMBER:	19817	19817
DATE RECEIVED:	2/02/94	2/02/94
DATE ANALYZED:	2/06/94	2/06/94
CLIENT SAMPLE ID:	1098	1099
PROJECT ID:	BRIDGER BUILDING	BRIDGER BUILDING
SAMPLE LOCATION:	THERMAL MUD INSUL ON PIPE ELBOWS ABOVE CEIL. IN EXIT HALLWAY	EXTERIOR PLASTER ALONG ALLEY 1ST FL.
IS THE SAMPLE HOMOGENEOUS?	YES	NO
DOES IT CONTAIN LAYERS?	NO	NO
IS THE SAMPLE FIBROUS?	YES	NO
SAMPLE COLOR:	LT. GRAY	GRAY
SAMPLE CONTAIN ASBESTOS FIBERS?	YES	YES
ASBESTOS TYPE AND PERCENT:	CHRYBOTILE 10 - 15	CHRYBOTILE < 1%
TOTAL PERCENT ASBESTOS:	TOTAL: 10 - 15	LESS THAN 1 PERCENT
FIBROUS MATERIALS AND PERCENT:	FIBROUS GLASS 25 - 35 CELLULOSE < 1%	FIBROUS GLASS < 1% CELLULOSE < 1%
NONFIBROUS CONSTITUENTS:	BINDER/FILLER GLASS BEADS	BINDER/FILLER
DEVIATION FROM TEST METHOD:		

- THIS TEST REPORT RELATES ONLY TO THE ITEMS TESTED AND MUST NOT BE REPRODUCED EXCEPT WITH THE APPROVAL OF THE LABORATORY.
- ALL SAMPLES WILL BE DISPOSED OF 90 DAYS FOLLOWING SAMPLE RECEIPT UNLESS OTHERWISE INSTRUCTED BY THE CLIENT.
- UNDER CURRENT EPA REGULATIONS, AN "ASBESTOS CONTAINING MATERIAL" CONTAINS MORE THAN ONE PERCENT ASBESTOS.
- UNLESS OTHERWISE STATED, TEST METHOD DOES NOT UTILIZE POINT COUNTING. QUANTITATION OF COMPONENTS BY VISUAL ESTIMATION DURING MACROSCOPIC AND/OR PLM EXAMINATIONS.
- UNDER CURRENT NESHAP REGULATIONS, 40 CFR PART 61, ASBESTOS CONTENT IN SAMPLES WITH LESS THAN 10 PERCENT ASBESTOS MUST BE REVERIFIED BY PLM POINT COUNTING.



**AB-HAZ ENVIRONMENTAL**  
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## ASSESSMENT



**AB-HAZ ENVIRONMENTAL**

Consultants in Environmental  
and Occupation Health

EXHIBIT 8-9.

**RECORDING FORM FOR PHYSICAL  
ASSESSMENT DATA**

Building: BRIOGER B106

Functional Area No. BB-1 Location: 1ST FLOOR

Type of Suspect Material:  Surfacing,  TSI,  Other  
 Friable,  Non-friable

Description: STRUCTURAL FIRE PROOFING ON I BEAMS

Functional Area Type: COUNTY COMMISSIONER CHAMBERLAIN LOBBY

Approximate Amount of Material (linear or square ft.): \_\_\_\_\_

Condition

Percent Damage:  0%  >0-10%  >10%-25%  >25%  
Extent of Damage:  Localized,  Distributed  
Type of Damage:  Deterioration,  Water,  Physical

Description: \_\_\_\_\_

Overall Rating:  Good  Damage  Significant Damage

Potential for Disturbance

Accessibility:  Accessible,  Inaccessible  
Description: DIRECTLY ABOVE DROP CEILING

Frequency of Contact:  High,  Moderate,  Low  
Description: VARIES

Influence of Vibration:  High,  Moderate,  Low  
Description: FLOOR TRAFFIC FROM 2ND FLOOR

Potential for Air Erosion:  High,  Moderate,  Low  
Description: IN AIR PLUMB

Overall Rating:  Low Potential  Potential For Damage  Potential for Significant Damage

Comments: \_\_\_\_\_

ROCCO DIPENTINO AB-HAZ

Date 1-94



**AB-HAZ ENVIRONMENTAL**

Consultants in Environmental  
and Occupation Health

EXHIBIT 8-9.

**RECORDING FORM FOR PHYSICAL  
ASSESSMENT DATA**

Building: BRIDGER BLDG

Functional Area No. BBS Location: 5TH FLOOR

Type of Suspect Material:  Surfacing,  TSI,  Other  
 Friable,  Non-friable

Description: STRUCTURAL FIRE PROOFING

Functional Area Type: OFFICE SPACE

Approximate Amount of Material (linear or square ft.): \_\_\_\_\_

Condition

Percent Damage:  0%  >0-10%  >10%-25%  >25%  
Extent of Damage:  Localized,  Distributed  
Type of Damage:  Deterioration,  Water,  Physical

Description: \_\_\_\_\_

Overall Rating:  Good  Damage  Significant Damage

Potential for Disturbance

Accessibility:  Accessible,  Inaccessible

Description: \_\_\_\_\_

Frequency of Contact:  High,  Moderate,  Low

Description: \_\_\_\_\_

Influence of Vibration:  High,  Moderate,  Low

Description: \_\_\_\_\_

Potential for Air Erosion:  High,  Moderate,  Low

Description: \_\_\_\_\_

Overall Rating:  Low Potential  Potential For Damage  Potential for Significant Damage

Comments: \_\_\_\_\_

ROCCO DIPENTINO AB-HAZ

Date 1-94

RECORDING FORM FOR PHYSICAL ASSESSMENT DATA

Building: BRIDGER RD

Functional Area No. # C Location: 6TH FLOOR

Type of Suspect Material:  Surfacing,  TSI,  Other  
 Friable,  Non-friable

Description: FIRE PROOFING ON STRUCTURAL I-BEAMS / AND DUCT COURSEWORK

Functional Area Type: OFFICE AREAS RESTROOMS LOBBY'S ETC

Approximate Amount of Material (linear or square ft.): \_\_\_\_\_

Condition

Percent Damage: \_\_\_\_\_ 0%  >0-10% \_\_\_\_\_ >10%-25% \_\_\_\_\_ >25%  
Extent of Damage: \_\_\_\_\_ Localized,  Distributed  
Type of Damage:  Deterioration, \_\_\_\_\_ Water,  Physical

Description: NON-ENCAPSULATED (EXPOSED) FIRE PROOFING

Overall Rating: \_\_\_\_\_ Good  Damage \_\_\_\_\_ Significant Damage

Potential for Disturbance

Accessibility:  Accessible, \_\_\_\_\_ Inaccessible

Description: DIRECTLY OVER DROP CEILING TILES / AND WITHIN. HUAC MAINTENANCE OPERATIONS

Frequency of Contact: \_\_\_\_\_ High,  Moderate, \_\_\_\_\_ Low

Description: VARIES ON MAINTENANCE AND UNFORSEEN PROB.

Influence of Vibration:  High, \_\_\_\_\_ Moderate, \_\_\_\_\_ Low

Description: 2 ELEVATOR SHAFT CENTRALLY LOCATED

Potential for Air Erosion:  High, \_\_\_\_\_ Moderate, \_\_\_\_\_ Low

Description: COMMON AIR PLENUM THRU OUT.

Overall Rating: \_\_\_\_\_ Potential \_\_\_\_\_ Potential For Damage  Potential for Significant Damage

Comments: \_\_\_\_\_

Signed [Signature] Date 7-94

RECORDING FORM FOR PHYSICAL ASSESSMENT DATA

Building: BRIDGER Building

Functional Area No. #7 Location: 7TH FLOOR

Type of Suspect Material:  Surfacing,  TSI,  Other  
 Friable,  Non-friable

Description: FIRE PROOFING ON STRUCTURAL I-BEAMS AND OVER SPRAY ON CON. DECL.

Functional Area Type: OFFICE PROXIMITY (SECRETARYS - MANAGEMENT DIRECTORS CCT CCT.)

Approximate Amount of Material (linear or square ft.): \_\_\_\_\_

Condition

Percent Damage:  0%  >0-10%  >10%-25%  >25%  
Extent of Damage:  Localized,  Distributed  
Type of Damage:  Deterioration,  Water,  Physical

Description: NON ENCAPSULATED FIRE PROOFING, SUBJECT TO AIR-AQCL+MAINT.

Overall Rating:  Good  Damage  Significant Damage

Potential for Disturbance

Accessibility:  Accessible,  Inaccessible  
Description: WITHIN CONTACT OF ANYONE WHO MUST ACCESS ABOVE DROP TILTS.

Frequency of Contact:  High,  Moderate,  Low  
Description: IN ORDER TO DO NECESSARY MAINTENANCE.

Influence of Vibration:  High,  Moderate,  Low  
Description: 2 ELEVATOR SHAFTS IN CENTRAL LOCAL

Potential for Air Erosion:  High,  Moderate,  Low  
Description: PART OF RETURN AIR PLENUM

Overall Rating:  Potential  For Damage  Potential for Significant Damage

Comments: \_\_\_\_\_

Signed [Signature] Date 1-94

RECORDING FORM FOR PHYSICAL ASSESSMENT DATA

Building: BRIDGER Bld 8TH FLOOR

Functional Area No. BB 8 Location: HOMOGENOUS AREA ABOVE DROP CEILING

Type of Suspect Material:  Surfacing,  TSI,  Other  
 Friable,  Non-friable

Description: STRUCTURAL BEAMS w/ FIRE PROOFING AND OVER SPRAY

Functional Area Type: ATTORNEYS OFFICES AND CLERICAL SETUP BELOW DROP CEILING / RETURN AIR PLENUM ABOVE

Approximate Amount of Material (linear or square ft.): \_\_\_\_\_

Condition

Percent Damage:  0%  >0-10%  >10%-25%  >25%

Extent of Damage:  Localized,  Distributed

Type of Damage:  Deterioration,  Water,  Physical

Description: AIR EROSION ON NON-ENCAPSULATED FIRE PROOFING  
FAIR

Overall Rating:  Good  Damage  Significant Damage

Potential for Disturbance

Accessibility:  Accessible,  Inaccessible

Description: LOCATED DIRECTLY ABOVE 2'x4' DROP CEILING TILES

Frequency of Contact:  High,  Moderate,  Low

Description: DEPENDING ON ANY MAINTENANCE WORK

Influence of Vibration:  High,  Moderate,  Low

Description: ELEVATOR SHAFTS (2) CENTRALLY LOCATED

Potential for Air Erosion:  High,  Moderate,  Low

Description: OPEN AIR PLENUM THRU OUT FLOOR

Overall Rating:  Potential  Potential For Damage  Potential for Significant Damage

Comments: THE SLIGHTEST CONTACT WITH ACM COULD RESULT IN MAJOR FIBER RELEASE

Signed [Signature] Date 1-94



**AB-HAZ ENVIRONMENTAL**

Consultants in Environmental  
and Occupation Health

EXHIBIT 8-9.

**RECORDING FORM FOR PHYSICAL  
ASSESSMENT DATA**

Building: BRIDGE BLDG

Functional Area No. BB-9 Location: B9 9TH FLOOR

Type of Suspect Material:  Surfacing,  TSI,  Other  
 Friable,  Non-friable

Description: FIRE PROOFING ON BEAMS

Functional Area Type: OFFICE SPACE

Approximate Amount of Material (linear or square ft.): \_\_\_\_\_

Condition

Percent Damage:  0%  >0-10%  >10%-25%  >25%  
Extent of Damage:  Localized,  Distributed  
Type of Damage:  Deterioration,  Water,  Physical

Description: \_\_\_\_\_

Overall Rating:  Good  Damage  Significant Damage

Potential for Disturbance

Accessibility:  Accessible,  Inaccessible

Description: DIRECTLY ABOVE DROP CEILING

Frequency of Contact:  High,  Moderate,  Low

Description: DEPENDS ON MAINTENANCE

Influence of Vibration:  High,  Moderate,  Low

Description: DURING PEAK HRS. ELEVATOR USAGE

Potential for Air Erosion:  High,  Moderate,  Low

Description: IN DIRECT AIR CURRENT

Overall Rating:  Potential  Potential For Damage  Potential for Significant Damage

Comments: \_\_\_\_\_

ROCCO DIPENTINO AB-HAZ

Date 1-94

RECORDING FORM FOR PHYSICAL ASSESSMENT DATA

Building: BRIDGER BUILDING

Functional Area No. CC-10 Location: 10TH FLOOR

Type of Suspect Material:  Surfacing,  TSI,  Other  
 Friable,  Non-friable

Description: FIRE PROOFING ON T-BEAMS WITH OVERSPRAY ON CONCRETE DECK

Functional Area Type: OFFICE CUBICALS AND RECEPTION AREA / NORTH END SUPREM COURT OFFICE.

Approximate Amount of Material (linear or square ft.): \_\_\_\_\_

Condition

Percent Damage: 0%  >0-10%  >10%-25%  >25%  
Extent of Damage:  Localized,  Distributed  
Type of Damage:  Deterioration,  Water,  Physical

Description: DUE TO LOCATION AND VARIOUS WATER DAMAGE OVER THE YEARS FROM ROOF LEAKS THIS AREA HAS MORE VISIBLE CONTAMINATION  
Overall Rating:  Good  Damage  Significant Damage

Potential for Disturbance

Accessibility:  Accessible,  Inaccessible  
Description: DIRECTLY ABOVE DROP CEILING

Frequency of Contact:  High,  Moderate,  Low  
Description: VARIES UPON MAINTENANCE

Influence of Vibration:  High,  Moderate,  Low  
Description: ELEVATOR SHAFT CENTRALLY LOCATED

Potential for Air Erosion:  High,  Moderate,  Low  
Description: OPEN RETURN AIR PLenums

Overall Rating:  Potential  Potential For Damage  Potential for Significant Damage

Comments: \_\_\_\_\_  
Signed: [Signature] Date: 1-94 FRIABILITY IS



**EXHIBIT 8-9.**

**RECORDING FORM FOR PHYSICAL  
 ASSESSMENT DATA**

Building: BRINGER BLDG

Functional Area No. BR-1 Location: PENTHOUSE

Type of Suspect Material:  Surfacing,  TSI,  Other  
 Friable,  Non-friable

Description: FIRE PROOFING on METAL CEILING DECK AND  
IBLAMS

Functional Area Type:  AIR-HANDLER Room

Approximate Amount of Material (linear or square ft.): 2000 sq ft

Condition

Percent Damage: 0% >0-10%  >10%-25% >25%  
 Extent of Damage: Localized,  Distributed  
 Type of Damage:  Deterioration,  Water,  Physical

Description: \_\_\_\_\_

Overall Rating:  Good  Damage  Significant Damage

Potential for Disturbance

Accessibility:  Accessible,  Inaccessible  
 Description: DIRECTLY OVERHEAD

Frequency of Contact:  High,  Moderate,  Low  
 Description: Regular Maintenance schedule

Influence of Vibration:  High,  Moderate,  Low  
 Description: CONSTANT MOTOR + Blowing usage

Potential for Air Erosion:  High,  Moderate,  Low  
 Description: CONSTANT Air Movement

Overall Rating:  Potential  For Damage  Potential for Significant Damage

Comments: ABATEMENT of ACM - ASAP

ROCCO DIPENTINO AB-HAZ Date 1-94



**AB-HAZ ENVIRONMENTAL**

Consultants in Environmental  
and Occupation Health

**EXHIBIT 8-9. RECORDING FORM FOR PHYSICAL ASSESSMENT DATA**

Building: BRIDGE RIDGE

Functional Area No. EL 1 Location: ELEVATOR ROOM - Penth

Type of Suspect Material:  Surfacing,  TSI,  Other  
 Friable,  Non-friable

Description: DECK AND CEILING FILL ROOFING

Functional Area Type: ELEVATOR HOIST ROOM

Approximate Amount of Material (linear or square ft.): 304 sq ft

Condition

Percent Damage: 0%  >0-10%  >10%-25%  >25%  
Extent of Damage:  Localized,  Distributed  
Type of Damage:  Deterioration,  Water,  Physical

Description: NO VISIBLE SIGNS OF ANY DAMAGE

Overall Rating:  Good  Damage  Significant Damage

Potential for Disturbance

Accessibility:  Accessible,  Inaccessible  
Description: \_\_\_\_\_

Frequency of Contact:  High,  Moderate,  Low  
Description: \_\_\_\_\_

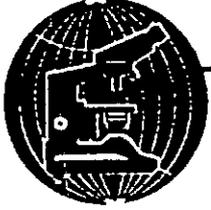
Influence of Vibration:  High,  Moderate,  Low  
Description: \_\_\_\_\_

Potential for Air Erosion:  High,  Moderate,  Low  
Description: \_\_\_\_\_

Overall Rating:  Low Potential  Potential For Damage  Potential for Significant Damage

Comments: \_\_\_\_\_

ROCCO DIPENTINO AB-HAZ Date 1-94



# AB-HAZ ENVIRONMENTAL

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## PHOTOS



# AB-HAZ ENVIRONMENTAL

*Specializing in Hazardous Waste Management*

## PHOTO LOG

- 1) WEST FAN ROOM IN THE PENTHOUSE AREA (CORRUGATED DECK).
- 2) EAST ELEVATOR ROOM IN THE PENTHOUSE (CORRUGATED DECK).
- 3) CENTER ELEVATOR ROOM IN THE PENTHOUSE (CORRUGATED DECK WITH OVERSPRAY).
- 4) FAN ROOM IN THE PENTHOUSE AREA (PIPE INSULATION).
- 5) BOILER ROOM #2 ABATED CORRUGATED DECK.
- 6) TENTH FLOOR EAST HATCH .
- 7) TENTH FLOOR ABOVE CEILING TILES (FIREPROOFED LATERAL I-BEAM).
- 8) EIGHT FLOOR WEST END ABOVE CEILING TILES (FIREPROOFED I-BEAM).
- 9) SIXTH FLOOR EAST END ABOVE CEILING TILES (FIREPROOFED I-BEAM).
- 10) FIFTH FLOOR WEST OF ELEVATOR ( CLIP-IN CEILING).
- 11) FOURTH FLOOR BOILER ROOM (PIPE INSULATION)
- 12) BEHIND SOUTH STAIRWELL ON THE FIRST FLOOR (FIREPROOFING).



# AB-HAZ ENVIRONMENTAL

*Specializing in Hazardous Waste Management*

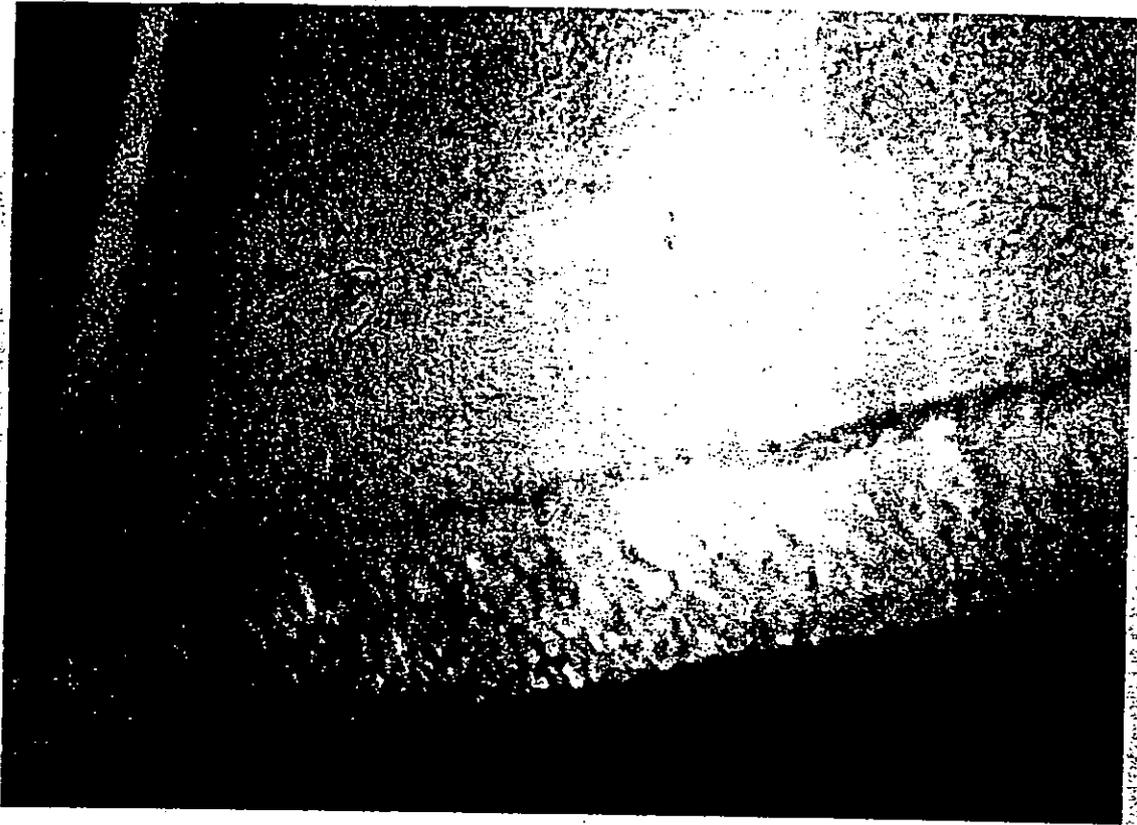


Figure #7 Tenth floor above ceiling tiles (Fireproofed lateral I-beams)



Figure #8. Eighth floor west end ceiling tiles (Fireproofed lateral I-beams).



Figure #9. Sixth floor east end above ceiling tiles (fireproofed I-beams).



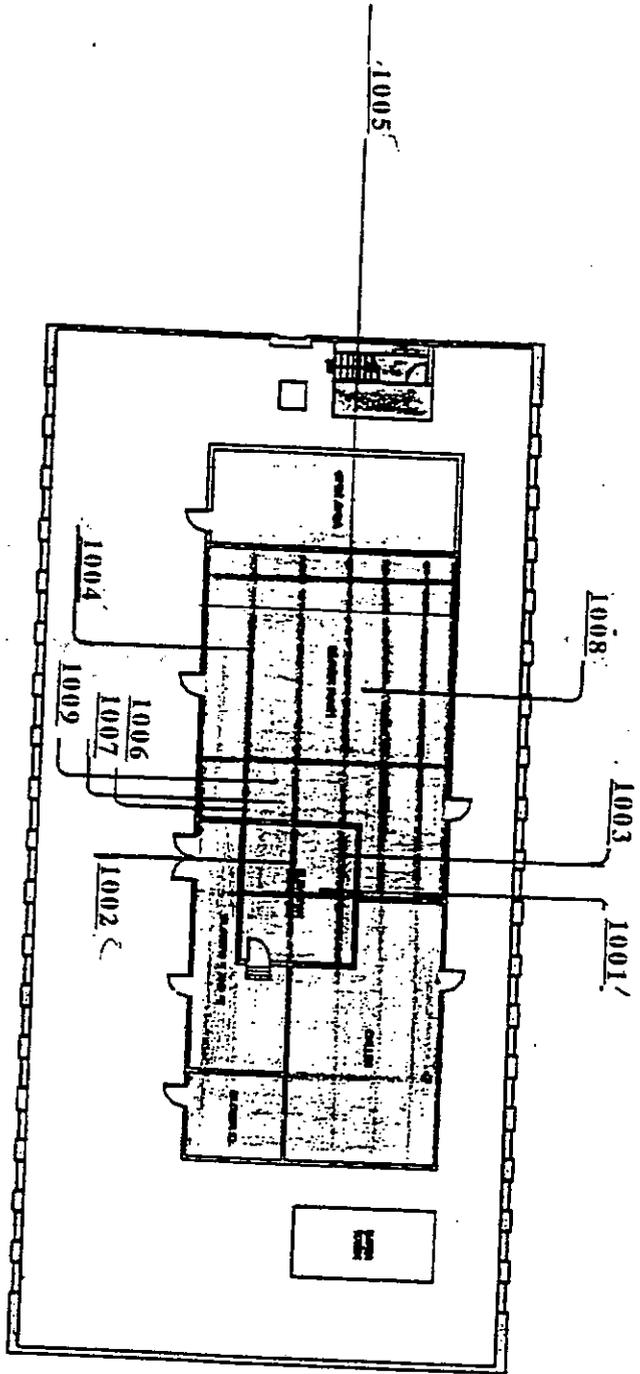
# AB-HAZ ENVIRONMENTAL

*Specializing in Hazardous Waste Management*

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## DRAWINGS

EXISTING ROOF PLAN



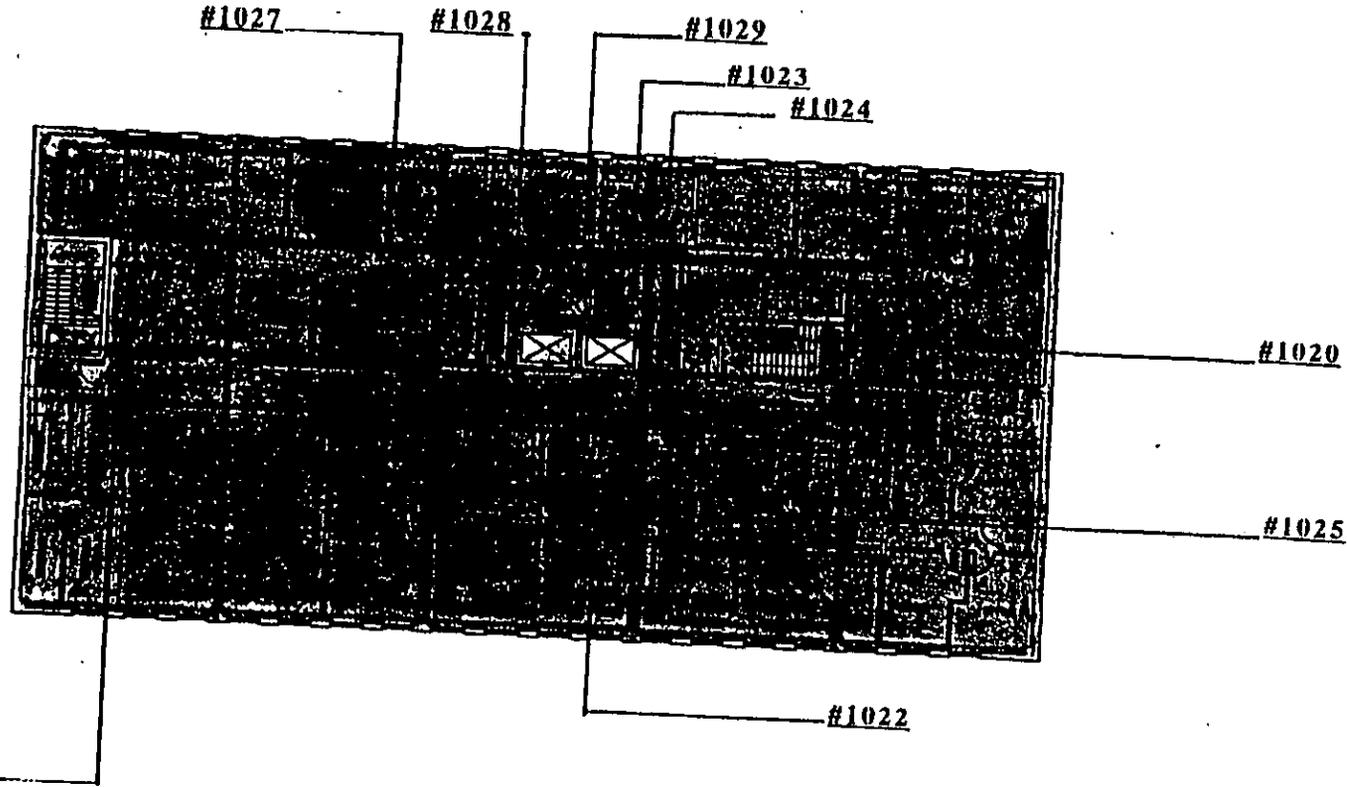
CLARK COUNTY BRIDGE BUILDS  
225 BRIDGE AVENUE  
LAS VEGAS, NEVADA

EXISTING ROOF PLAN

Drawn by: \_\_\_\_\_  
Checked by: \_\_\_\_\_  
Designed by: \_\_\_\_\_  
Approved by: \_\_\_\_\_



**CLARK COUNTY**  
General Services Department  
Public Works Section  
225 Bridge Avenue  
Las Vegas, NV 89101



#1026

EXISTING NINTH FLOOR PLAN  
1975-1979



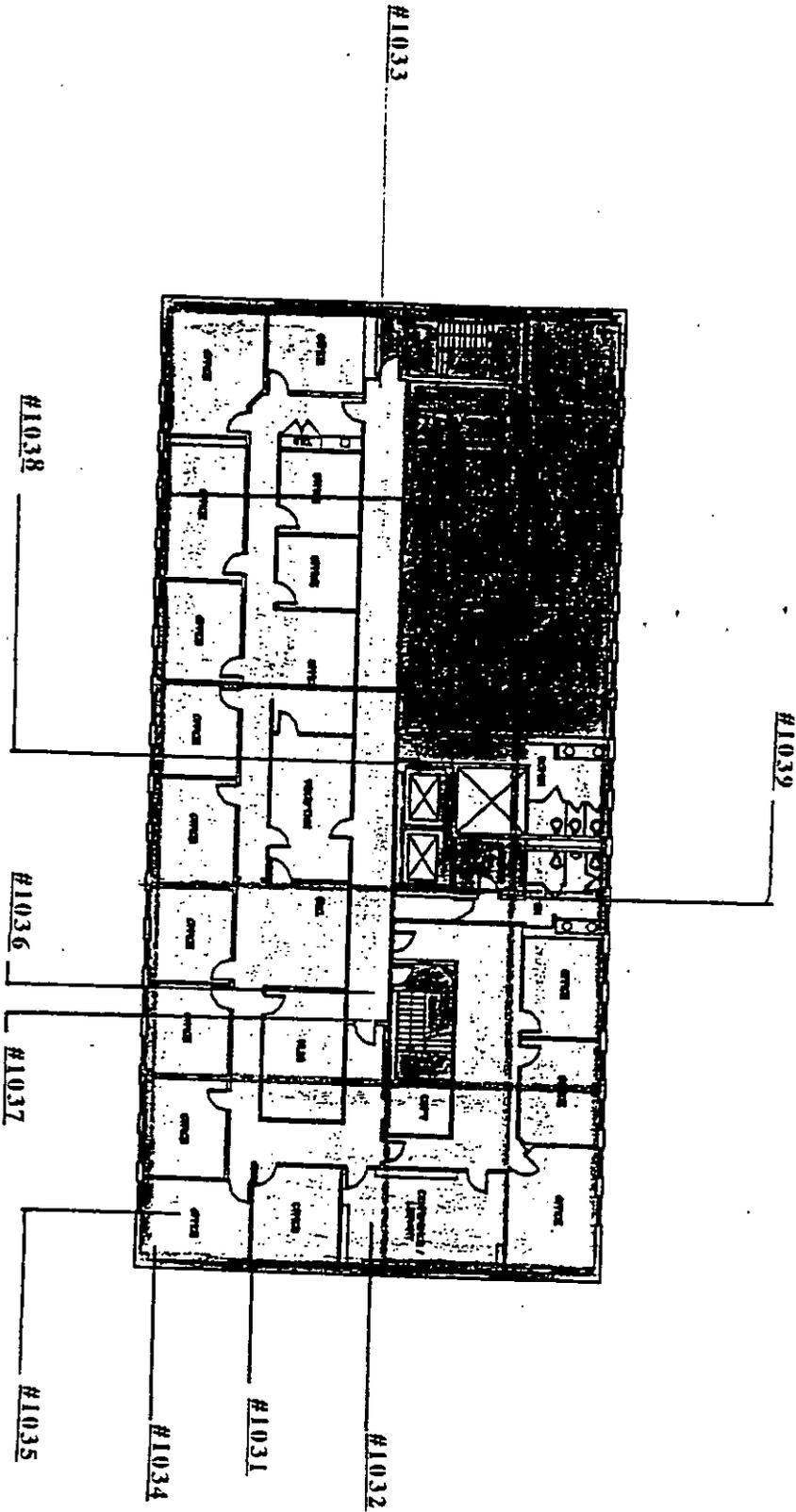
CLARK COUNTY  
 Planning and Economic Development  
 200 Nevada State Building  
 Las Vegas, NV 89101  
 Phone: (702) 733-1111

Scale:  
 Project No. \_\_\_\_\_  
 Date: \_\_\_\_\_  
 Drawn by: \_\_\_\_\_  
 Checked by: \_\_\_\_\_

CLARK COUNTY BRIDGE BUILDING  
 220 BRIDGE AVENUE  
 LAS VEGAS, NEVADA  
 SHEET NO. EXISTING NINTH FLOOR PLAN

13

EXISTING EIGHTH FLOOR PLAN



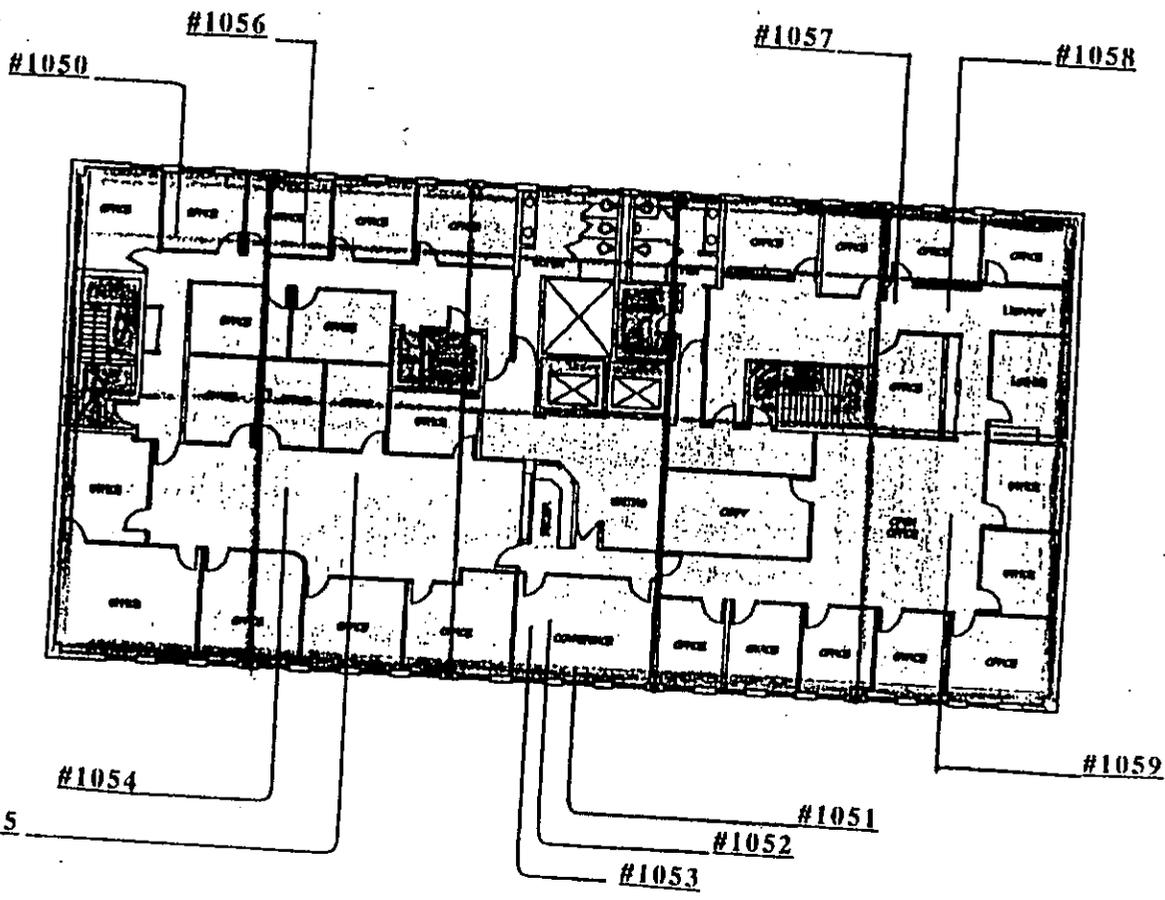
PROJECT CLARK COUNTY BRIDGER BUILDING  
 225 BRIDGER AVENUE  
 LAS VEGAS, NEVADA  
 SHEET 010 EXISTING EIGHTH FLOOR PLAN

DATE	
BY	
CHECKED BY	
APPROVED BY	



**CLARK COUNTY**  
 General Services Department  
 Facilities Services Section  
 200 Grand Avenue  
 Las Vegas, NV 89101  
 702-733-4000





EXISTING SIXTH FLOOR PLAN  
5/15/77

**CLARK COUNTY**  
 Central Planning Department  
 Planning & Zoning Division  
 100 N. 2nd Street  
 Las Vegas, NV 89101



Project No.	_____
Sheet No.	_____
Scale	_____
Author	_____
Check	_____
Date	_____

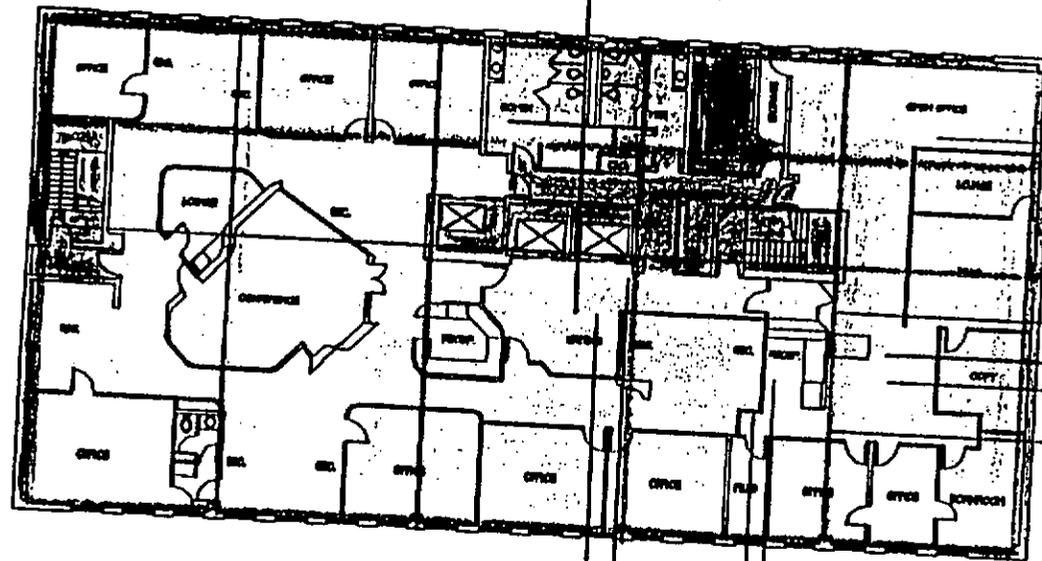
CLARK COUNTY BROKER BUILDING  
 725 BROKER AVENUE  
 LAS VEGAS, NEVADA

SEE THE EXISTING SIXTH FLOOR PLAN

100



SCALE: 1/8" = 1'-0"



EXISTING FIFTH FLOOR PLAN

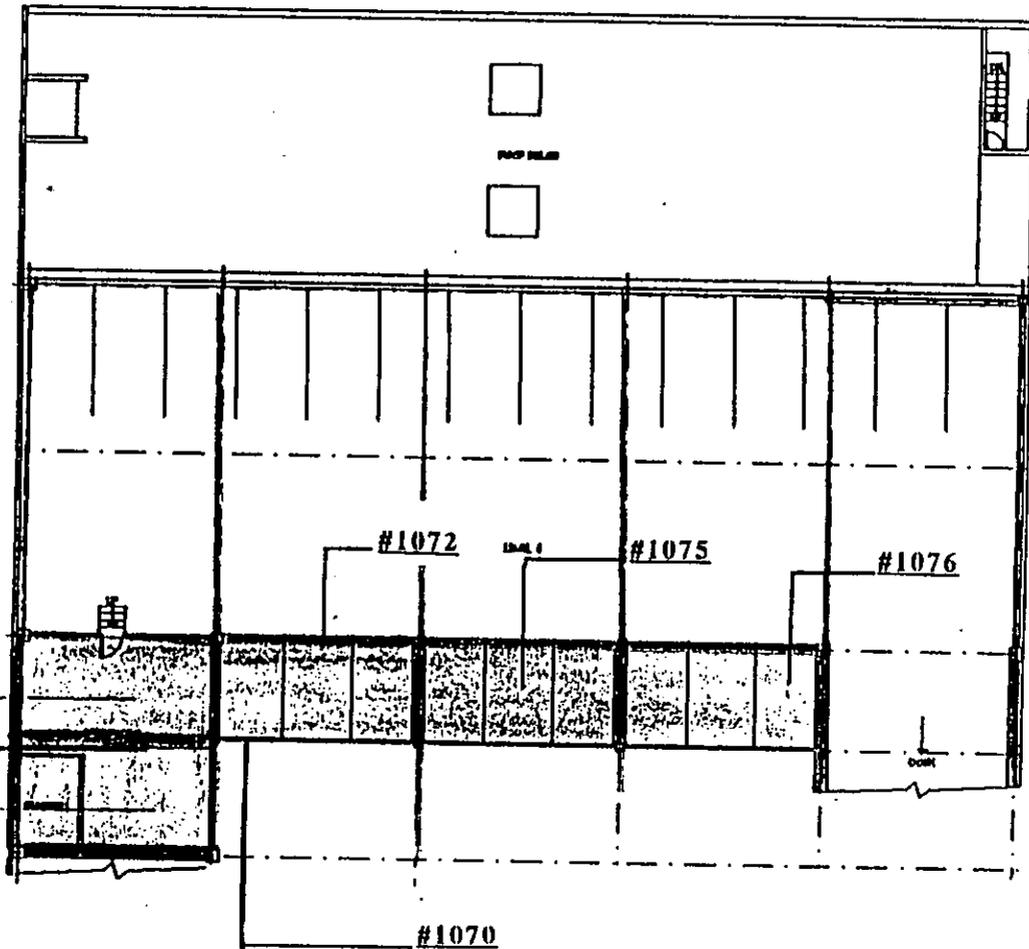
CLARK COUNTY  
 CLARK COUNTY  
 CLARK COUNTY  
 CLARK COUNTY



DATE	
BY	
CHECKED BY	
APPROVED BY	

CLARK COUNTY BRIDGE BUILDING  
 225 BRIDGE AVENUE  
 LAS VEGAS, NEVADA

EXISTING FIFTH FLOOR PLAN



EXISTING PARKING GARAGE LEVEL 4 / CENTRAL BUILDING ROOFTOP  
 12.08.2000



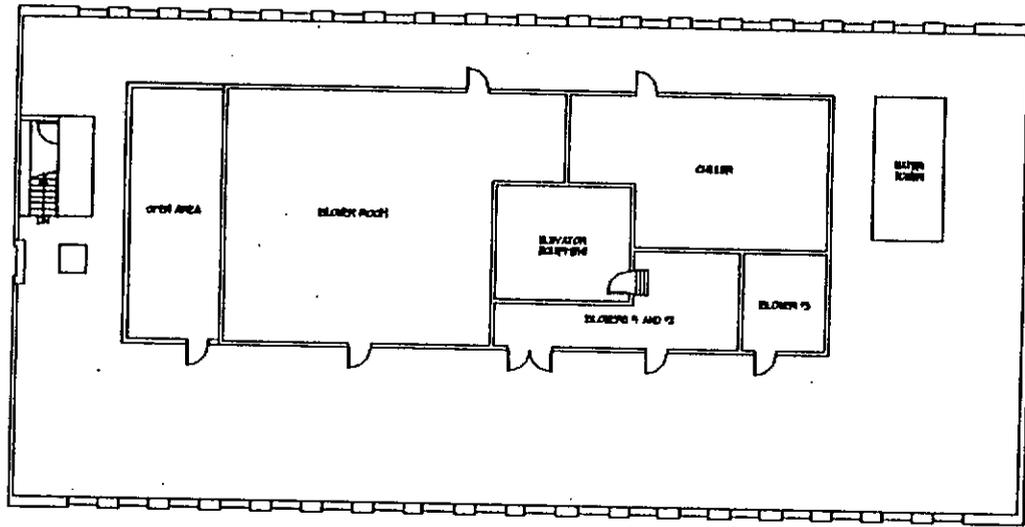
**CLARK COUNTY**  
 Planning and Development  
 1000 N. 1st Street  
 Las Vegas, NV 89101  
 Phone: 702.733.1234  
 Fax: 702.733.1235



Prepared by:	
Checked by:	
Approved by:	
Date:	

PROJECT: CLARK COUNTY BRIDGE BILDBNS  
 220 BRIDGE AVENUE  
 LAS VEGAS, NEVADA

REVISION: EXISTING PARKING GARAGE LEVEL 4 /  
 CENTRAL BUILDING ROOFTOP



# BRIDGER & CENTENNIAL BUILDINGS

EXISTING ROOF PLAN  
SCALE 1/8" = 1'-0"



**CLARK COUNTY**  
 Central Facilities Department  
 Planning Services Division  
 225 West Flamingo Avenue  
 Las Vegas, NV 89101  
 (702) 438-4111

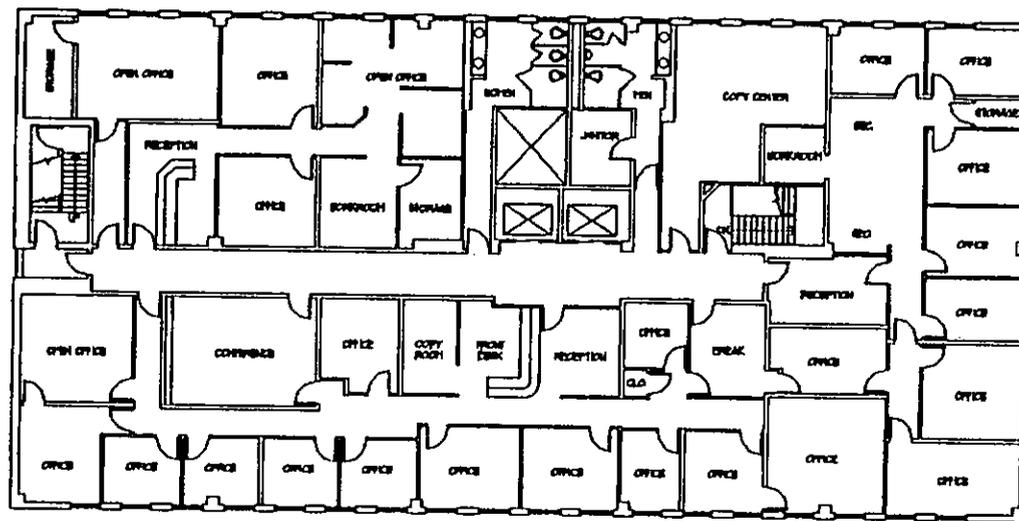


DATE	ISSUED
PROJECT NO.	DRAWING NO.
DESIGNED BY	CHECKED BY
DRAWN BY	APPROVED BY

PROJECT: CLARK COUNTY BRIDGER BUILDING  
 725 BRIDGER AVENUE  
 LAS VEGAS, NEVADA  
 SET TITLE: EXISTING ROOF PLAN

1 of 10

REVISED CHANGES MET



# BRIDGER & CENTENNIAL BUILDINGS

EXISTING TENTH FLOOR PLAN  
SCALE: 1/8" = 1'-0"



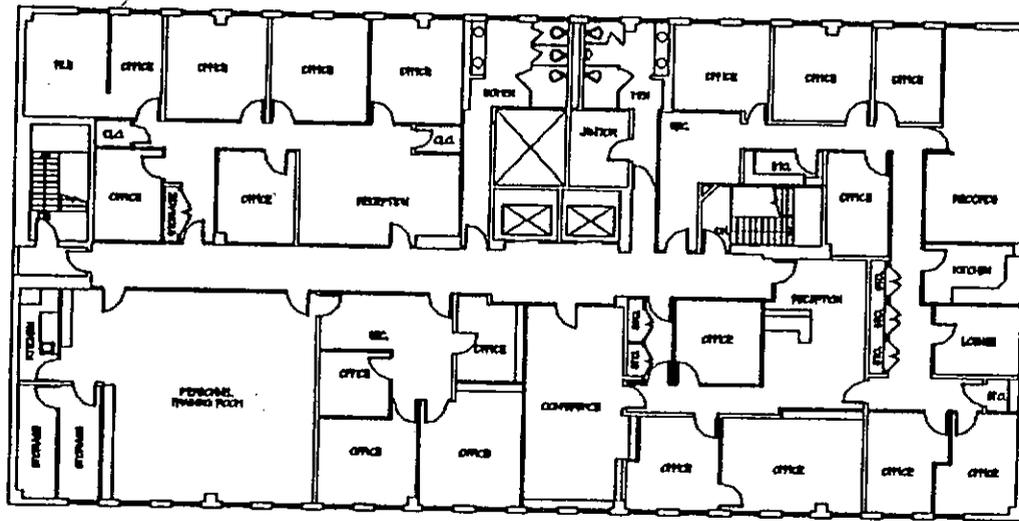
TERRILL CHAMBERLAIN ARCHITECTS

**CLARK COUNTY**  
Central Services Department  
Planning Services Division  
Las Vegas, NV 89101  
Tel: 702-462-4111



DATE: 10/1/03  
PROJECT: CLARK COUNTY  
DRAWN BY: J.A.C.  
CHECKED BY: J.A.C.  
APPROVED BY: J.A.C.

PROJECT: CLARK COUNTY BRIDGER BUILDING  
225 BRIDGER AVENUE  
LAS VEGAS, NEVADA  
SHEET #10: EXISTING TENTH FLOOR PLAN



# BRIDGER & CENTENNIAL BUILDINGS

EXISTING NINTH FLOOR PLAN  
2/21/77



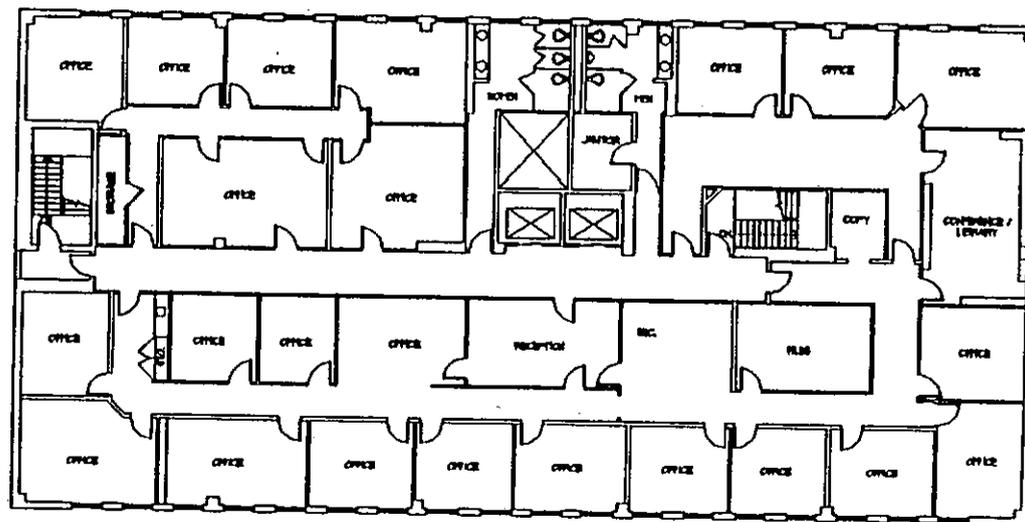
CLARK COUNTY  
Central Services Department  
Planning Services Division  
1000 S. Harbor Blvd., Suite 100  
Las Vegas, NV 89102



Project No. \_\_\_\_\_  
Drawing No. \_\_\_\_\_  
Revision No. \_\_\_\_\_

CLARK COUNTY BRIDGER BUILDING  
225 BRIDGER AVENUE  
LAS VEGAS, NEVADA  
NEXT TITLE EXISTING NINTH FLOOR PLAN

PROJECT NO. \_\_\_\_\_  
DRAWING NO. \_\_\_\_\_



# BRIDGER & CENTENNIAL BUILDINGS

EXISTING EIGHTH FLOOR PLAN  
 EX-1000



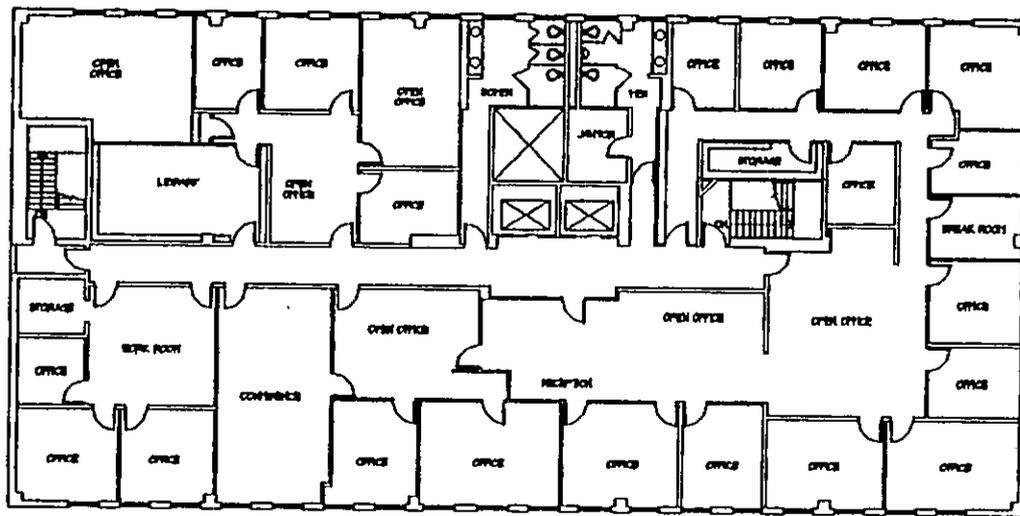
**CLARK COUNTY**  
 Central Administration Department  
 Planning Services Division  
 225 South Main Street  
 Las Vegas, Nevada 89101  
 Tel: 702/253-2000



Project No. \_\_\_\_\_  
 Date: \_\_\_\_\_  
 Scale: \_\_\_\_\_  
 Drawing No. \_\_\_\_\_

PROJECT: CLARK COUNTY BRIDGER BUILDING  
 725 BRIDGER AVENUE  
 LAS VEGAS, NEVADA  
 SEE THE EXISTING EIGHTH FLOOR PLAN

10



# BRIDGER & CENTENNIAL BUILDINGS

EXISTING SEVENTH FLOOR PLAN  
 5/25/1972



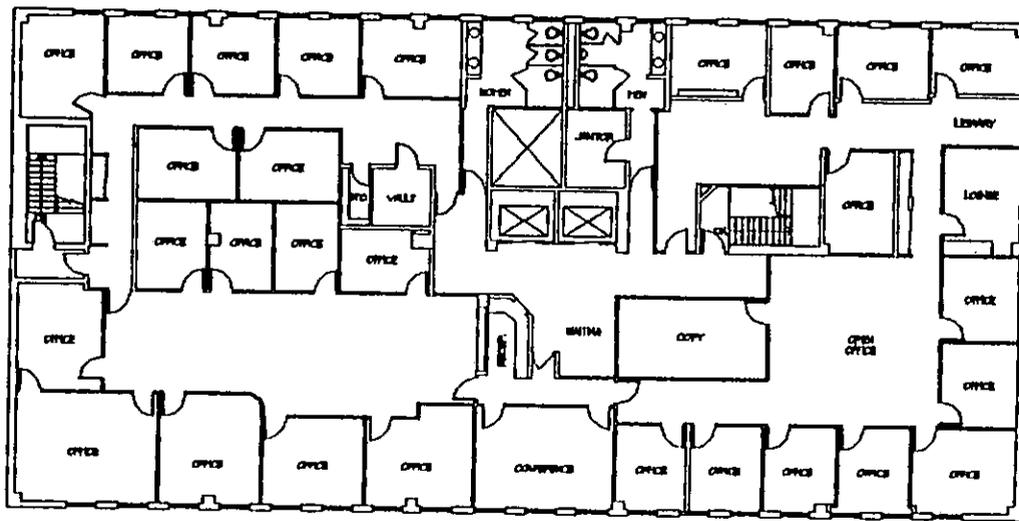
**CLARK COUNTY**  
 General Services Department  
 Planning Services Section  
 1000 S. 2nd Street  
 Las Vegas, Nevada 89101



Project No. \_\_\_\_\_  
 Date of Issue \_\_\_\_\_  
 Prepared by \_\_\_\_\_

CLARK COUNTY BRIDGER BUILDING  
 225 BRIDGER AVENUE  
 LAS VEGAS, NEVADA  
 5/25/1972 EXISTING SEVENTH FLOOR PLAN

1000 S. 2nd Street  
 Las Vegas, Nevada 89101



# BRIDGER & CENTENNIAL BUILDINGS

EXISTING SIXTH FLOOR PLAN  
SCALE 1/8" = 1'-0"



**CLARK COUNTY**  
 Central Services Department  
 Planning Services Division  
 Las Vegas, Nevada 89101

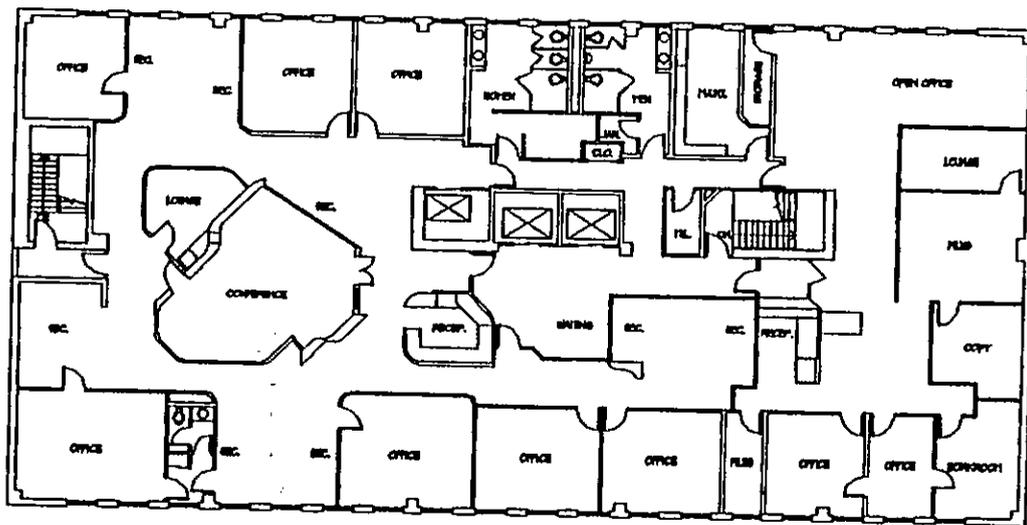


DATE: 08/08/01  
 PROJECT: 25 BRIDGER AVENUE  
 DRAWN BY: J.A.G.  
 CHECKED BY: J.A.G.

PROJECT: CLARK COUNTY BRIDGER BUILDING  
 25 BRIDGER AVENUE  
 LAS VEGAS, NEVADA  
 SHEET #118 EXISTING SIXTH FLOOR PLAN

1/8" = 1'-0"

BRIDGER & CENTENNIAL BUILDINGS



# BRIDGER & CENTENNIAL BUILDINGS

EXISTING FIFTH FLOOR PLAN  
 10/1/72



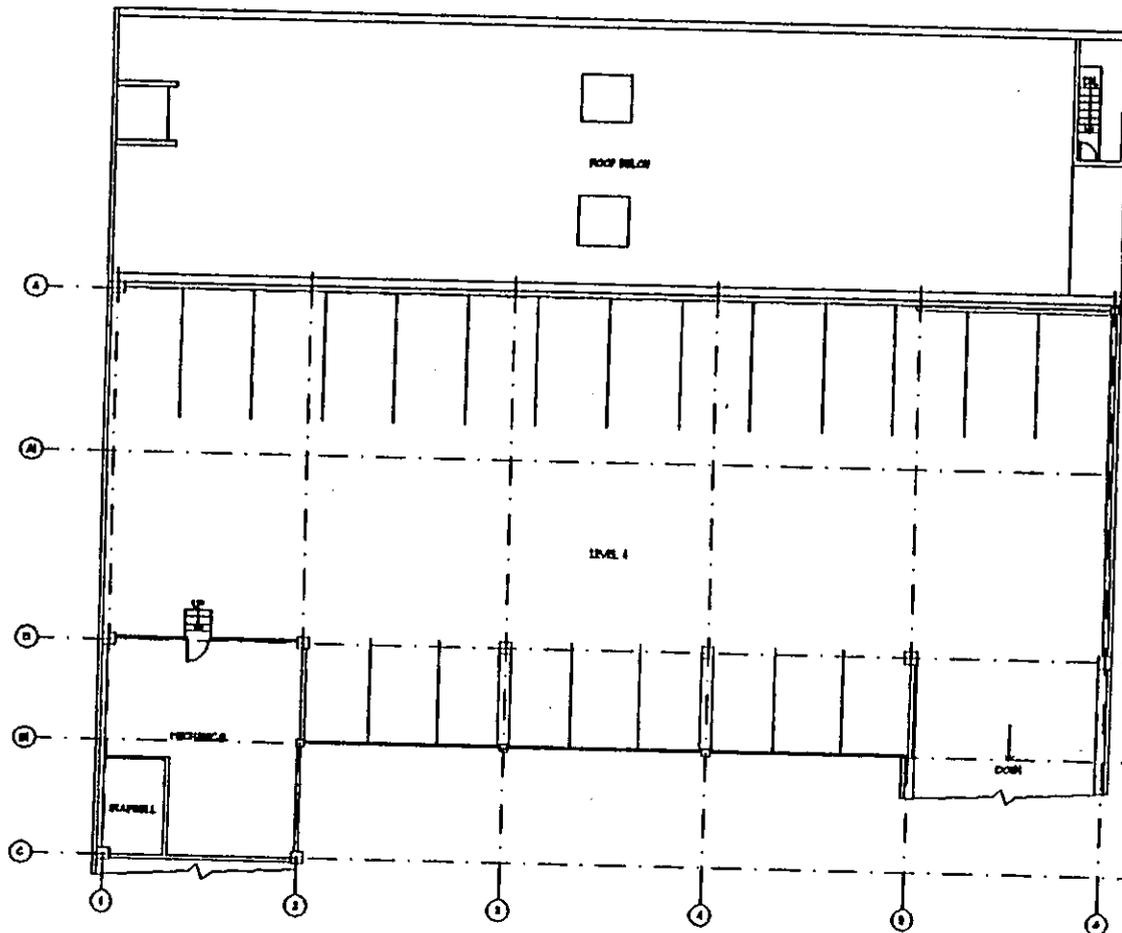
**CLARK COUNTY**  
 General Services Department  
 Facilities Services Division  
 Las Vegas, Nevada 89101



Project No. S.A.G.  
 Prepared by

PROJECT: CLARK COUNTY BRIDGER BUILDING  
 225 BRIDGER AVENUE  
 LAS VEGAS, NEVADA  
 SET TITLE: EXISTING FIFTH FLOOR PLAN

13



# BRIDGER & CENTENNIAL BUILDINGS

EXISTING PARKING GARAGE LEVEL 4 & CENTENNIAL BUILDING ROOFTOP

SCALE 1/8" = 1'-0"



REVISED 05/15/00

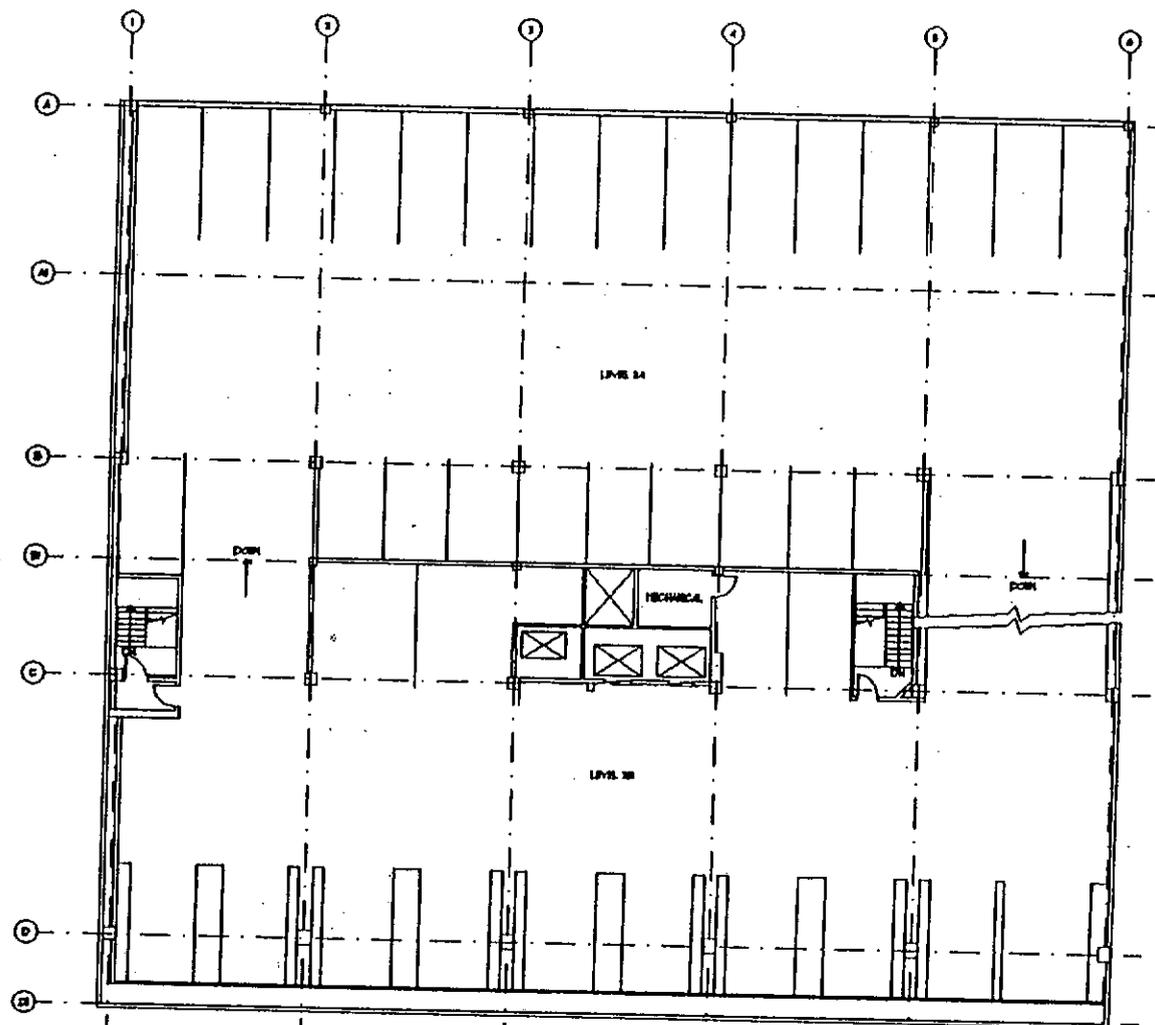
**CLARK COUNTY**  
 Central Planning Department  
 Planning & Zoning Division  
 1000 S. 2nd Street, Suite 200  
 Las Vegas, NV 89102  
 Phone: 702-733-2200  
 Fax: 702-733-2201



PROJECT: \_\_\_\_\_  
 DRAWN BY: \_\_\_\_\_  
 CHECKED BY: \_\_\_\_\_  
 DATE: \_\_\_\_\_

PROJECT: CLARK COUNTY BRIDGER BUILDING  
 725 BRIDGER AVENUE  
 LAS VEGAS, NEVADA  
 SHEET NO: EXISTING PARKING GARAGE LEVEL 4 &  
 CENTENNIAL BUILDING ROOFTOP

1000  
 1001  
 1002



# BRIDGER & CENTENNIAL BUILDINGS

EXISTING PARKING GARAGE LEVELS 3A & 3B  
SCALE 1/8" = 1'-0"



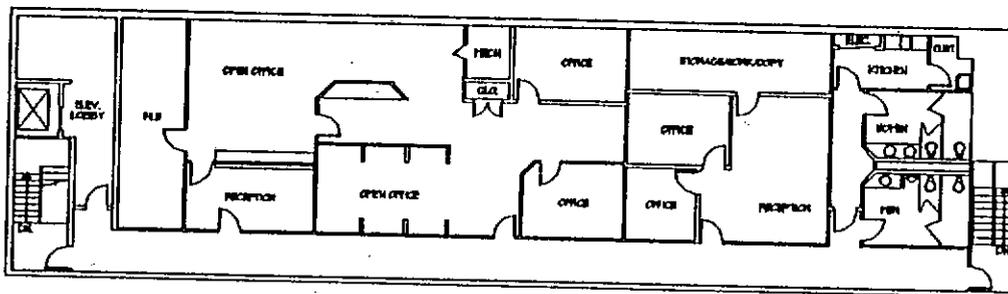
**CLARK COUNTY**  
 Central Services Department  
 Planning Services Division  
 225 West Flamingo Avenue  
 Las Vegas, NV 89102



DATE: 11/11/11  
 DRAWN BY: J.A.G.  
 CHECKED BY: J.A.G.  
 APPROVED BY: J.A.G.

PROJECT: CLARK COUNTY BROKER BUILDING  
 225 BRIDGER AVENUE  
 LAS VEGAS, NEVADA  
 WEST TIER EXISTING PARKING GARAGE  
 LEVELS 3A & 3B

1 of 1



# BRIDGER & CENTENNIAL BUILDINGS

EXISTING THIRD FLOOR PLAN  
DATE 1/19/79



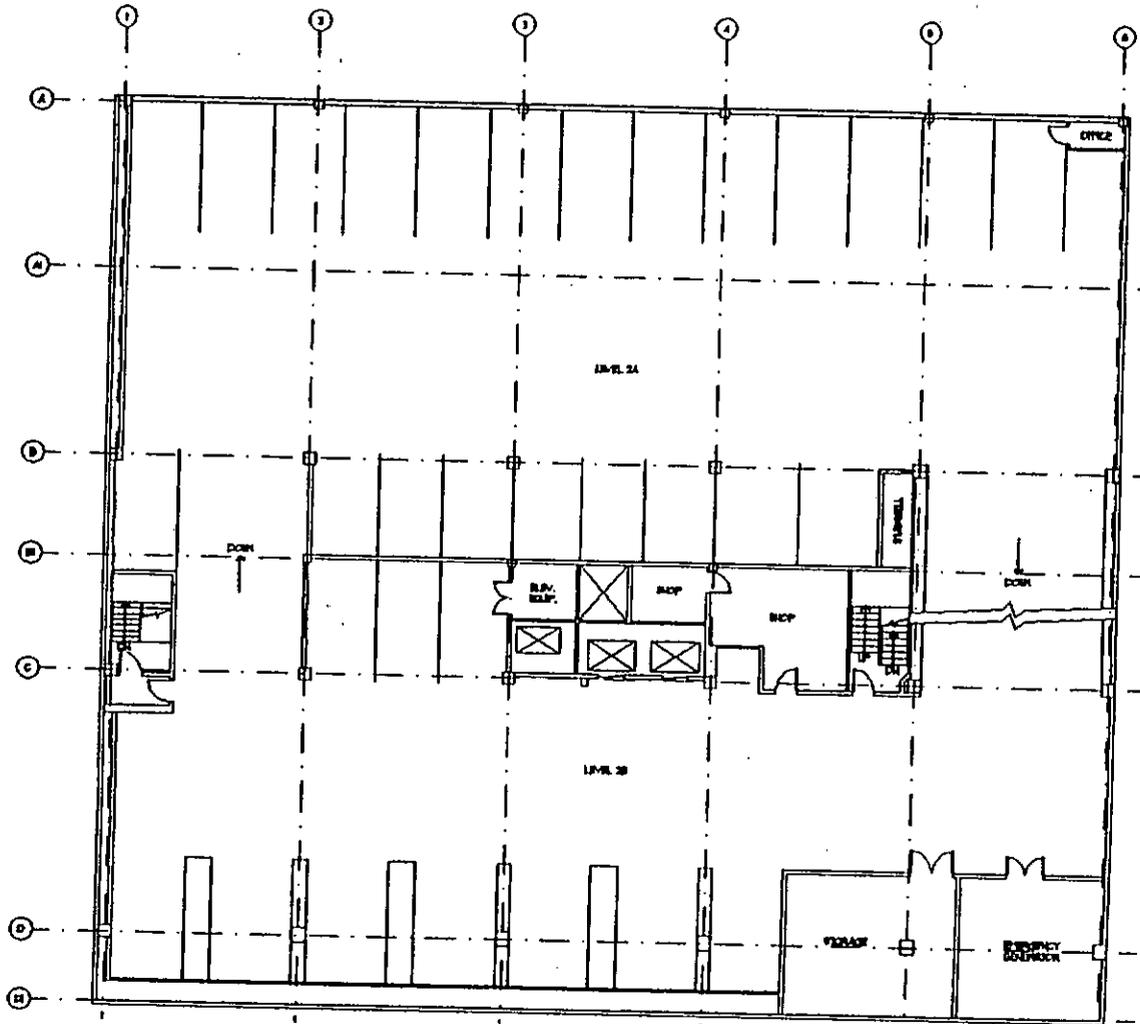
**CLARK COUNTY**  
 Central Services Department  
 Facilities Services Division  
 225 South Main Street  
 Las Vegas, Nevada 89101



Project No. \_\_\_\_\_  
 Date of P.L.C. \_\_\_\_\_  
 Prepared by \_\_\_\_\_  
 Checked by \_\_\_\_\_

PROJECT: CLARK COUNTY BRIDGER BUILDING  
 225 BRIDGER AVENUE  
 LAS VEGAS, NEVADA  
 SHEET TITLE: EXISTING THIRD FLOOR PLAN  
 (CENTENNIAL BUILDING)

SCALE: 1/8" = 1'-0"



# BRIDGER & CENTENNIAL BUILDINGS

EXISTING PARKING GARAGE LEVELS 2A & 2B

KALB 1999P

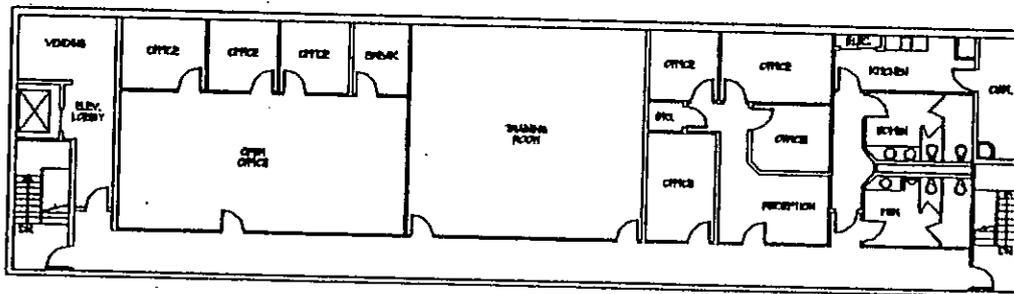


**CLARK COUNTY**  
 Central Services Department  
 Planning Services Division  
 225 E. Flamingo Avenue, Suite 200  
 Las Vegas, NV 89119  
 (702) 733-1111



DATE:	
PROJECT:	
SCALE:	1/4" = 1'-0"
DRAWN BY:	
CHECKED BY:	

PROJECT: CLARK COUNTY BRIDGER BUILDING  
 725 BRIDGER AVENUE  
 LAS VEGAS, NEVADA  
 SHEET TITLE: EXISTING PARKING GARAGE  
 LEVELS 2A & 2B



# BRIDGER & CENTENNIAL BUILDINGS

EXISTING SECOND FLOOR PLAN  
SCALE 1/8" = 1'-0"



**CLARK COUNTY**  
 Central Services Department  
 Facilities Services Section  
 225 South Nevada Ave.  
 Las Vegas, Nevada 89101

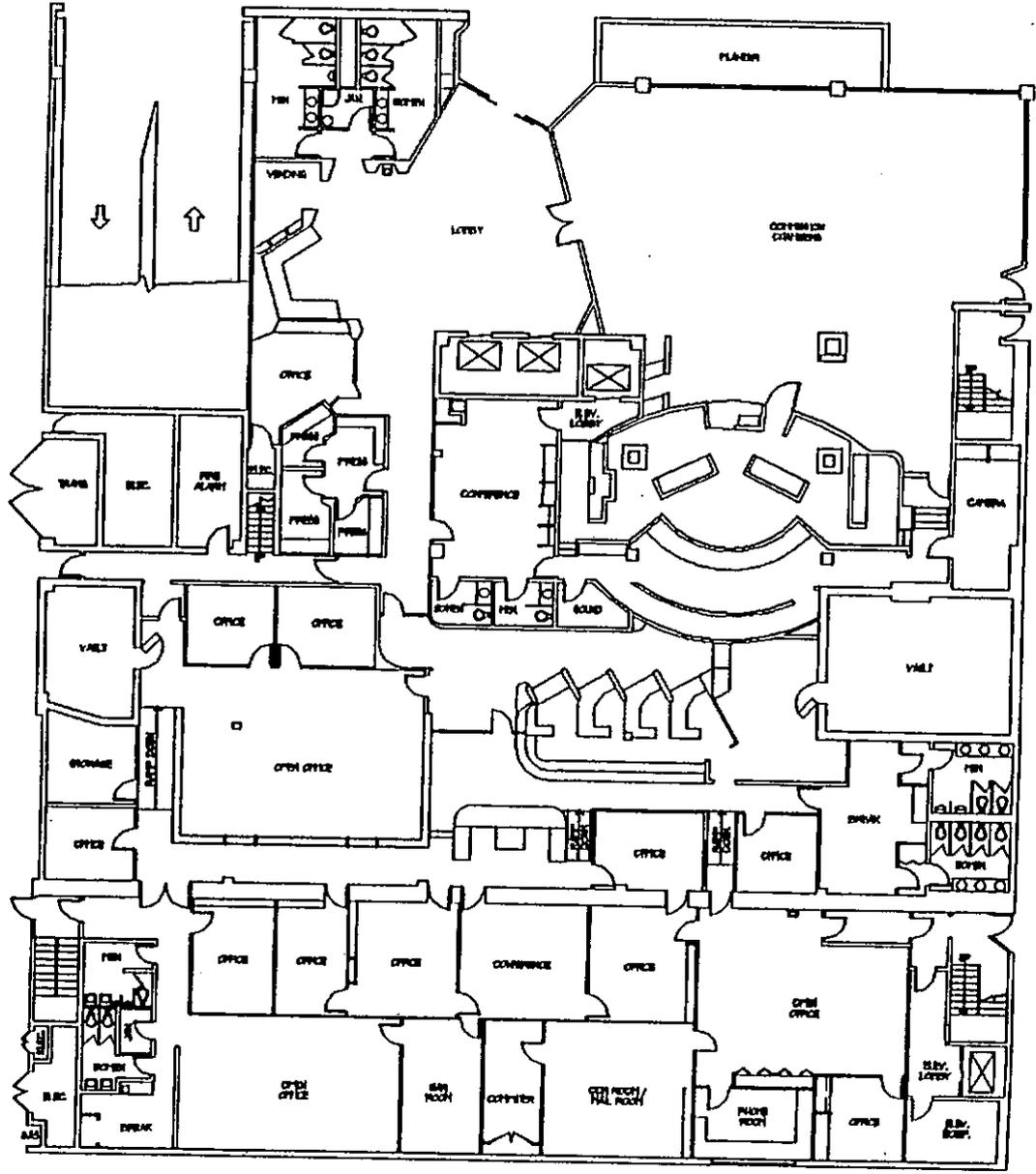


DATE: \_\_\_\_\_  
 DRAWN BY: \_\_\_\_\_  
 CHECKED BY: \_\_\_\_\_  
 DESIGNED BY: \_\_\_\_\_  
 APPROVED BY: \_\_\_\_\_

PROJECT: CLARK COUNTY BRIDGER BUILDING  
 225 BRIDGER AVENUE  
 LAS VEGAS, NEVADA  
 SHEET TITLE: EXISTING SECOND FLOOR PLAN  
 (CENTENNIAL BUILDING)

12

BRIDGER & CENTENNIAL



EXISTING FIRST FLOOR PLAN  
DATE 1/19/70

BRIDGER & CENTENNIAL BUILDINGS

PROJECT: CLARK COUNTY BRIDGER BUILDING  
225 BRIDGER AVENUE  
LAS VEGAS, NEVADA  
SHEET NO. EXISTING FIRST FLOOR PLAN

DATE: 1/19/70  
DRAWN BY: J.A.G.  
CHECKED BY: J.A.G.  
APPROVED BY: J.A.G.



CLARK COUNTY  
Central Services Department  
Planning Services Division  
1000 Las Vegas Blvd. S.  
Las Vegas, Nevada 89101



**Western  
Technologies  
Inc.**

The Quality People  
Since 1953

3611 West Tompkins Avenue  
Las Vegas, Nevada 89103-5618  
(702) 798-8050 • fax 798-7664

June 24, 1998

Clark County General Services  
500 South Grand Central Parkway, 4<sup>th</sup> Floor  
Las Vegas, Nevada 89155

Attn: Ms. Sheron Hayes

Project No. 4188JL180

REF: Limited Asbestos Survey  
Bridger Centennial Buildings  
225 Bridger Avenue  
Las Vegas, Nevada

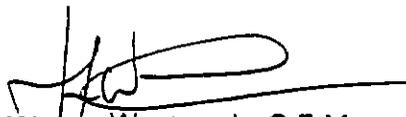
Dear Ms. Hayes:

Western Technologies Inc. (WT) is pleased to provide this report of a limited asbestos survey conducted at the Bridger and Centennial Buildings located at 225 Bridger Avenue in Las Vegas, Nevada. The purpose of this limited asbestos survey was to identify asbestos-containing building materials (ACBMs) that may be present at this facility and to provide a cost estimate for the abatement of identified ACBMs.

WT has found asbestos in 24 of the 39 samples that were sent for analysis. The ACBMs identified are fireproofing, thermal system insulation (TSI), 9 inch by 9 inch vinyl floor tile, and flooring mastics. These materials were found to be in good condition. The fireproofing and TSI are classified as friable materials. The 9 inch by 9 inch vinyl floor tile and flooring mastics are classified as Category I non-friable materials. If the identified ACBMs are removed or if they may become damaged during demolition or renovation activities, these materials must be removed by a qualified asbestos abatement contractor. An estimated cost for the abatement of the ACBMs identified in this limited asbestos survey is approximately \$1,149,000.00. Details of the limited asbestos survey and abatement cost estimate are provided in the attached report.

WT appreciates being of service to Clark County General Services on this project. If you have any questions or require additional information, please contact us at (702) 798-8050.

Sincerely,  
**WESTERN TECHNOLOGIES INC.**

  
Jeremy Westmark, C.E.M.  
Senior Project Manager

Attachment: Survey report

LIMITED ASBESTOS SURVEY  
BRIDGER CENTENNIAL BUILDINGS  
225 BRIDGER AVENUE  
LAS VEGAS, NEVADA

PROJECT NO. 4188JL180

Asbestos Survey Methods: On June 20 and 22, 1998, Mr. Dennis Kish, a Nevada-licensed asbestos building inspector working for Western Technologies Inc. (WT), performed a walk-through inspection of the Bridger and Centennial buildings. All accessible surfaces of the buildings were visually surveyed to identify areas of suspect asbestos-containing building materials (ACBMs). Suspect materials consisting of fireproofing, thermal system insulation (TSI), 9 inch by 9 inch vinyl floor tile and flooring mastic, 12 inch by 12 inch vinyl floor tile and flooring mastic, 2 foot by 4 foot suspended ceiling tiles, stucco, duct work insulation, and cove base were sampled from the project area.

A total of 39 samples were collected from the project area, sealed in individual plastic bags, labeled, and shipped to TEC-AN, Inc., an AIHA-accredited asbestos laboratory using appropriate chain-of-custody protocols for testing. The samples were analyzed for bulk asbestos content using polarized light optical microscopy (PLM) methods.

Survey Results: The analytical test results indicate that asbestos, in quantities sufficient to be classified as ACBM (greater than one percent asbestos), was found in 24 of the 39 samples. The identified ACBMs consisted of fireproofing, TSI, 9 inch by 9 inch vinyl floor tile, and flooring mastics. No ACBMs were identified in the Centennial building. A summary table describing the sample locations, type of material, and asbestos content for the samples is attached. Copies of the analytical report forms and chain-of-custody document are also attached.

During the sampling activities, the asbestos-containing fireproofing and TSI material were classified as friable materials and were in good condition. The asbestos-containing 9 inch by 9 inch vinyl floor tile and flooring mastics were classified as Category I non-friable materials and were in good condition.

None of the six samples obtained from the Centennial building reportedly contained asbestos. The WT inspector did not identify fireproofing or TSI in this structure, indicating that this facility may have undergone asbestos abatement in the past or is of significantly different construction.

**Approximate Measurement of ACBMs:** The WT inspector obtained approximate measurements of suspect ACBMs during the site visit. Measurements of the fireproofing and TSI materials were not feasible during the site inspection due to the inaccessibility of most of these materials and lack of building plans. Approximately 32,000 square feet of 9 inch by 9 inch vinyl floor tile and mastic were noted by the WT inspector.

**Asbestos Regulatory Requirements:** Current asbestos regulations contained within the EPA's National Emissions Standards for Hazardous Air Pollutants (NESHAPs 40 CFR, 61 Subpart M) define a regulated asbestos-containing material (RACM) as:

- (a) friable asbestos material,
- (b) Category I non-friable ACBM that has become friable,
- (c) Category I non-friable ACBM that will be or has been subject to sanding, grinding, cutting or abrading, or
- (d) Category II non-friable ACBM 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.

Since the Category I non-friable ACBMs are in good condition and have not, at the present time, become friable, they would not be classified as a RACM according to this definition. The material would be re-classified as RACM only if it deteriorates to the point of becoming friable or is subjected to the types of removal techniques specified above in (c) for Category I during the course of any removal activity.

The NESHAP regulations mandate the removal of RACMs prior to a demolition or renovation of a building. Further, any disturbance of a regulated asbestos-containing material caused by demolition or renovation activities (whether it be removing/replacing interior building components, repairing building components, or painting a friable asbestos-containing surface) requires State and local notifications, safety requirements, procedures for asbestos emission control, proper disposal of ACBM wastes, and worker training.

**Recommendations:** Based on the findings of this limited asbestos survey and current asbestos control regulations, WT recommends that if the asbestos-containing materials identified in this limited asbestos survey are likely to be disturbed and/or rendered friable during any demolition or renovation activities, these materials must be removed prior to that work. In conclusion, if the identified ACBMs are removed, the building owner shall perform the following:

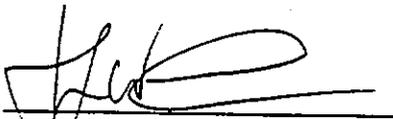
- Comply with Federal requirements for ACBM removal which are presented in the "EPA National Emissions Standards for Hazardous Air Pollutants Regulations" (NESHAPs, 40 CFR 61, Subpart M) and the Occupational Safety and Health Administration (OSHA) 29 CFR 1926.1101.
- Contract with a qualified asbestos consultant and an asbestos abatement contractor to conduct proper removal of the ACBM.
- Have the asbestos consultant perform a final visual inspection following removal of the ACBM to confirm and document the completeness of the removal work.
- Document all items and correspondence from the asbestos abatement contractor, asbestos consultant, and any related items, and retain items in a permanent record.

**Asbestos Abatement Cost Estimate:** WT retained a qualified asbestos abatement contractor to provide a cost estimate for the removal of ACBMs identified in this limited asbestos survey. The purpose of the cost estimate is to provide Clark County General Services with a cursory estimate of abatement costs based on existing site conditions and current industry standards. WT does not guarantee the accuracy of the cost estimate with respect to identified ACBMs or ACBMs not identified in this limited asbestos survey. WT's asbestos abatement contractor anticipates, based on the above assumptions, that the estimated cost for the removal of the ACBMs identified in this limited asbestos survey is approximately \$1,149,000.00. In addition, WT recommends that the owner retain Western Technologies Inc. to monitor the abatement of the asbestos-containing building materials prior to the renovation or demolition of the structures.

**Limitations:** These professional services have been performed by WT using that degree of care and skill ordinarily exercised under similar circumstances by reputable environmental consultants practicing in this or similar localities. No other warranty, expressed or implied, is made. The professional services performed do not guarantee compliance with Federal, State or local laws.

The professional services provided and judgment rendered on this project meet current professional standards and do not carry any other guarantee. WT accepts no responsibility or liability to any person or organization for any claim, for loss or damage (including attorney's fees) caused, or believed to be caused, directly or indirectly by: conditions not revealed by the laboratory analyses performed; failure to perform other chemical analyses or utilize different test methods or equipment; or failure to locate or install additional sample points.

*We, (Christopher L. White and Jeremy Westmark), hereby certify that we are responsible for the services described in this document and for the preparation of this document. The services described in this document have been provided in a manner consistent with the current standards of the profession and, to the best of our knowledge, comply with all applicable federal, state, and local statutes, regulations, and ordinances.*



Jeremy Westmark, C.E.M.  
Senior Project Manager  
EM-1627, Expires 3/24/00  
Nevada Asbestos Consultant No. I0691



Christopher L. White, P.E., C.E.M.  
Director of Environmental Services  
EM-1421, Expires 3/8/99  
Nevada Asbestos Consultant No. IJPO434

SUMMARY TABLE  
 LIMITED ASBESTOS SURVEY  
 BRIDGER BUILDING  
 225 BRIDGER AVENUE  
 LAS VEGAS, NEVADA

Sample No.	Sample Location and Type of Material	Friable	Asbestos Content (%)
01	10 <sup>th</sup> floor, hallway, above outside elevator door fireproofing, gray	X	15
02	10 <sup>th</sup> floor, next to elevator, Room 1024, ladies restroom fireproofing, gray	X	15
03	Roof mechanical room, elbow 4" blower thermal system insulation (TSI), white	X	15
04	Roof mechanical room, elbow 6" blower TSI, white	X	15
05	Roof elevator hoist room fireproofing, dark brown	X	15
06	10 <sup>th</sup> floor, southeast corner storage room 12"X12" vinyl floor tile, white		0
06A	10 <sup>th</sup> floor, southeast corner storage room mastic on floor tile, black		0
07	10 <sup>th</sup> floor, southwest corner offices 9"X9" vinyl floor tile, beige		7
07A	10 <sup>th</sup> floor, southwest corner offices mastic on floor tile, black		3
08	9 <sup>th</sup> floor, hallway, men's restroom 9"X9" vinyl floor tile, beige		7
08A	9 <sup>th</sup> floor, hallway, men's restroom mastic on floor tile, black		3
09	9 <sup>th</sup> floor, northeast corner small kitchen area 12"X12" vinyl floor tile, beige		0
09A	9 <sup>th</sup> floor, northeast corner small kitchen area mastic on floor tile, yellow		0
10	9 <sup>th</sup> floor, Room 927, office 9"X9" vinyl floor tile, beige		7

Sample No.	Sample Location and Type of Material	Friable	Asbestos Content (%)
10A	9 <sup>th</sup> floor, Room 927, office mastic on floor tile, black		3
11	9 <sup>th</sup> floor, near elevator 2'X4' ceiling tile, white		0
12	9 <sup>th</sup> floor, west of elevator fireproofing, beige	X	15
13	9 <sup>th</sup> floor, above room 910, storage closet fireproofing, beige	X	15
14	8 <sup>th</sup> floor, northeast corner storage room 9"X9" vinyl floor tile, beige		7
14A	8 <sup>th</sup> floor, northeast corner storage room mastic on floor tile, black		3
15	8 <sup>th</sup> floor, northeast side of building, office fireproofing, beige	X	15
16	8 <sup>th</sup> floor, above elevator entrance fireproofing, gray	X	15
17	7 <sup>th</sup> floor, Room 718, storage room 12"X12" vinyl floor tile, off-white		0
17A	7 <sup>th</sup> floor, Room 718, storage room mastic on floor tile, black		0
18	7 <sup>th</sup> floor, north side of building center column fireproofing, gray	X	15
19	7 <sup>th</sup> floor, Room 722, office across from elevator 9"X9" vinyl floor tile, beige		7
19A	7 <sup>th</sup> floor, Room 722, office across from elevator mastic on floor tile, black		3
20	7 <sup>th</sup> floor, Room 728, office fireproofing, beige	X	15
21	6 <sup>th</sup> floor, west hallway storage room 12"X12" vinyl floor tile, gray speckled		0
21A	6 <sup>th</sup> floor, west hallway storage room mastic on floor tile, yellow		0
22	6 <sup>th</sup> floor, lounge 12"X12" vinyl floor tile, beige		0

Sample No.	Sample Location and Type of Material	Friable	Asbestos Content (%)
22A	6 <sup>th</sup> floor, lounge mastic on floor tile, black		3
23	6 <sup>th</sup> floor, above elevator fireproofing, beige	X	15
24	6 <sup>th</sup> floor, above walk-in vault fireproofing, beige	X	15
25	5 <sup>th</sup> floor, Room 513, men's restroom 9"X9" vinyl floor tile, beige		7
25A	5 <sup>th</sup> floor, Room 513, men's restroom mastic on floor tile, black		3
26	5 <sup>th</sup> floor, above and outside Room 517 fireproofing, beige	X	15
27	5 <sup>th</sup> floor, outside of Room 501 12"X12" ceiling tile, off-white		0
28	5 <sup>th</sup> floor, Room 513, men's restroom fireproofing, beige	X	15
29	4 <sup>th</sup> floor, parking garage, parking stall 96 stucco on lathe, beige		0
30	1 <sup>st</sup> floor, Room 106 fireproofing, beige	X	15
31	1 <sup>st</sup> floor, Room 106 12"X12" ceiling tile, gray		0
32	1 <sup>st</sup> floor, storage room next to Room 107 12"X12" vinyl floor tile, white w/ black speckle		0
32A	1 <sup>st</sup> floor, storage room next to Room 107 mastic on floor tile, black		3
33	1 <sup>st</sup> floor, back entrance hall 12"X12" vinyl floor tile, grey with white speckle		0
33A	1 <sup>st</sup> floor, back entrance hall mastic on floor tile, yellow		0

**SUMMARY TABLE  
LIMITED ASBESTOS SURVEY  
CENTENNIAL BUILDING  
225 BRIDGER AVENUE  
LAS VEGAS, NEVADA**

Sample No.	Sample Location and Type of Material	Asbestos Content (%)
34	1 <sup>st</sup> floor, elevator room stucco on lathe	0
35	2 <sup>nd</sup> floor, hallway 2'X4' ceiling tile	0
36	3 <sup>rd</sup> floor, hallway 2'X4' ceiling tile	0
37	Room 304, duct work insulation	0
38	Room 304 2'X4' ceiling tile	0
39	1 <sup>st</sup> floor, elevator room entrance cove base	0

TEC-AN, Inc.

3535 N.W. 58th Street, Suite 470E  
 Oklahoma City, Oklahoma 73112  
 (405) 943-3358  
 FAX (405) 943-0363  
 1-888-832-2697

Client Western Tecnologies Inc.  
 Address 3611 West Tompkins Ave  
 Date Collected 9-Jun-98  
 Sampled By Dennis Kish

Lab Log#  
 Option  
 Project#  
 Project Name  
 P.O.#

980511  
1  
Bridger Bldg.  
Clark County Assessor  
4188P259

Sample #	Sample Information	Asbestos Type	Test Results
1	Fireproofing White	Chrysotile 15%	Vermiculite 40% Binder 45%
2	Fireproofing White	Chrysotile 15%	Vermiculite 40% Binder 45%
3	T.S.I. White	Chry. 10%/Amos 5%	Mineral Wool 60% Binder 25%
4	T.S.I. White	Chry. 10%/Amos 5%	Mineral Wool 60% Binder 25%
5	Fireproofing White	Chrysotile 15%	Vermiculite 40% Binder 45%
6	Tile-White	None Detected	Matrix/Binder 100%
6A	Mastic on Above Black	None Detected	Matrix/Binder 100%
7	Tile Tan	Chrysotile 7%	Matrix/Binder 93%
7A	Mastic on Above Black	Chrysotile 3%	Matrix/Binder 97%
8	Tile White	Chrysotile 7%	Matrix/Binder 93%

ANALYTICAL METHOD : EPA TEST  
 METHOD-600/M4-82-020

Analyst

Allen

Remarks:

22-Jun-98

TEC-AN, Inc.

3535 N.W. 58th Street, Suite 470E  
 Oklahoma City, Oklahoma 73112  
 (405) 943-3358  
 FAX (405) 943-0363  
 1-888-832-2697

Client Western Technologies Inc.  
 Address 3611 West Tompkins Ave  
 Date Collected 9-Jun-98  
 Sampled By Dennis Kish

Lab Log# 980511  
 Option 1  
 Project# Bridger Bldg.  
 Project Name Clark County Assessor  
 P.O.# 4188P259

Sample #	Sample Information	Asbestos Type	Test Results
8A	Mastic on Above Black	Chrysotile 3%	Matrix/Binder 97%
9	Tile-White	None Detected	Matrix/Binder 100%
9A	Mastic on Above Yellow	None Detected	Matrix/Binder 100%
10	Tile-White	Chrysotile 7%	Matrix/Binder 93%
10A	Mastic on Above Black	Chrysotile 3%	Matrix/Binder 97%
11	Clg. Tile White	None Detected	Fiberglass 65% Binder 35%
12	Fireproofing White	Chrysotile 15%	Vermiculite 40% Binder 45%
13	Fireproofing White	Chrysotile 15%	Vermiculite 40% Binder 45%
14	Tile-White	Chrysotile 7%	Matrix/Binder 93%
14A	Mastic on Above Black	Chrysotile 3%	Matrix/Binder 97%

ANALYTICAL METHOD : EPA TEST  
 METHOD-600/M4-82-020

Analyst Allen Clark

22-Jun-98

Remarks: \_\_\_\_\_

**TEC-AN, Inc.**

3535 N.W. 58th Street, Suite 470E  
 Oklahoma City, Oklahoma 73112  
 (405) 943-3358  
 FAX (405) 943-0363  
 1-888-832-2697

Client: Western Tecnologies Inc.  
 Address: 3611 West Tompkins Ave  
 Date Collected: 9-Jun-98  
 Sampled By: Dennis Kish

Lab Log#  
 Option  
 Project#  
 Project Name  
 P.O.#

980511  
 1  
 Bridger Bldg.  
 Clark County Assessor  
 4188P259

Sample #	Sample Information	Asbestos Type	Test Results
15	Fireproofing White	Chrysotile 15%	Vermiculite 40% Binder 45%
16	Fireproofing White	Chrysotile 15%	Vermiculite 40% Binder 45%
17	Tile-White	None Detected	Matrix/Binder 100%
17A	Mastic on Above Black	None Detected	Matrix/Binder 100%
18	Fireproofing White	Chrysotile 15%	Vermiculite 40% Binder 45%
19	Tile Tan	Chrysotile 7%	Matrix/Binder 93%
19A	Mastic on Above Black	Chrysotile 3%	Matrix/Binder 97%
20	Fireproofing White	Chrysotile 15%	Vermiculite 40% Binder 45%
21	Tile Gray	None Detected	Matrix/Binder 100%
21A	Mastic on Above Yellow	None Detected	Matrix/Binder 100%

**ANALYTICAL METHOD : EPA TEST  
 METHOD-600/M4-82-020**

Analyst

*Allen Clark*

Remarks:

22-Jun-98

**TEC-AN, Inc.**

3535 N.W. 58th Street, Suite 470E  
 Oklahoma City, Oklahoma 73112  
 (405) 943-3358  
 FAX (405) 943-0363  
 1-888-832-2697

Client Western Tecnologies Inc.  
 Address 3611 West Tompkins Ave  
 Date Collected 9-Jun-98  
 Sampled By Dennis Kish

Lab Log#  
 Option  
 Project#  
 Project Name  
 P.O.#

980511  
1  
Bridger Bldg.  
Clark County Assessor  
4188P259

Sample #	Sample Information	Asbestos Type	Test Results
22	Tile-White	None Detected	Matrix/Binder 100%
22A	Mastic on Above Black	Chrysotile 3%	Matrix/Binder 97%
23	Fireproofing White	Chrysotile 15%	Vermiculite 40% Binder 45%
24	Fireproofing White	Chrysotile 15%	Vermiculite 40% Binder 45%
25	Tile-White	Chrysotile 7%	Matrix/Binder 93%
25A	Mastic on Above Black	Chrysotile 3%	Matrix/Binder 97%
26	Fireproofing White	Chrysotile 15%	Vermiculite 40% Binder 45%
27	Clg. Tile White	None Detected	Fiberglass 95% Binder 5%
28	Fireproofing White	Chrysotile 15%	Vermiculite 40% Binder 45%
29	Stucco Brown	None Detected	Matrix/Binder 100%

**ANALYTICAL METHOD : EPA TEST  
 METHOD-600/M4-82-020**

Analyst

*Allen Clark*

Remarks:

22-Jun-98

**TEC-AN, Inc.**

3535 N.W. 58th Street, Suite 470E  
 Oklahoma City, Oklahoma 73112  
 (405) 943-3358  
 FAX (405) 943-0363  
 1-888-832-2697

Client Western Technologies Inc.  
 Address 3611 West Tompkins Ave  
 Date Collected 9-Jun-98  
 Sampled By Dennis Kish

Lab Log# 980511  
 Option 1  
 Project# Bridger Bldg.  
 Project Name Clark County Assessor  
 P.O.# 4188P259

Sample #	Sample Information	Asbestos Type	Test Results
30	Fireproofing White	Chrysotile 15%	Vermiculite 40% Binder 45%
31	Clg. Tile White	None Detected	Fiberglass 90% Binder 10%
32	Tile-White	None Detected	Matrix/Binder 100%
32A	Mastic on Above Black	Chrysotile 3%	Matrix/Binder 97%
33	Tile Gray	None Detected	Matrix/Binder 100%
33A	Mastic on Above Yellow	None Detected	Matrix/Binder 100%

**ANALYTICAL METHOD : EPA TEST  
 METHOD-600/M4-82-020**

Analyst *Allen Clark*  
 22-Jun-98

Remarks: \_\_\_\_\_  
 \_\_\_\_\_

**TEC-AN, Inc.**

3535 N.W. 58th Street, Suite 470E  
 Oklahoma City, Oklahoma 73112  
 (405) 943-3358  
 FAX (405) 943-0363  
 1-888-832-2697

Client Western Tecnologies Inc.  
 Address 3611 West Tompkins Ave  
 Date Collected 23-Jun-98  
 Sampled By D.K./D.F.

Lab Log# 980519  
 Option 1  
 Project# 4188JL180  
 Project Name \_\_\_\_\_  
 P.O.# \_\_\_\_\_

Sample #	Sample Information	Asbestos Type	Test Results
34	Stucco Gray	None Detected	Matrix/Binder 100%
35	Clg. Tile White	None Detected	Cellulose 30% Fbgl. 60% Binder 10%
36	Clg. Tile White	None Detected	Cellulose 30% Fbgl. 60% Binder 10%
37	Duct Yellow	None Detected	Fbgl. 100%
38	Clg. Tile White	None Detected	Cellulose 30% Fbgl. 60% Binder 10%
39	Cove Base Gray	None Detected	Matrix/Binder 100%

**ANALYTICAL METHOD : EPA TEST  
 METHOD-600/M4-82-020**

Analyst Allen Lal

23-Jun-98

Remarks: \_\_\_\_\_

980511

P.O. 4188P259

TEC-AN, INC.

CHAIN OF CUSTODY

OFFICE # (405) 840-3335

FAX # (405) 842-7930

CLIENT Clark County Assessor LAB.# 10F2 DATE         

PROJECT Bridges Bldg SAMPLED BY DENNIS Kish # OF SAMPLES 25

TYPE OF SAMPLE Bulk DATE SAMPLED 6/20/98 DATE REC'D 6-22-98

RECEIVED BY [Signature] SHIPPED VIA Fed Ex Press

RELINQUISHED BY Fed Ex Press DATE 6-22-98 SAMPLE CONDITION Good

SAMPLE I.D.

LOCATION / DESCRIPTION

1. <u>001</u>	1. <u>10<sup>th</sup> Flr. Above ELEVATORS - FIRE PROOFING</u>
2. <u>002</u>	2. <u>10<sup>th</sup> Flr. ROOM 1024 - ✓</u>
3. <u>003</u>	3. <u>ROOF MECHANICAL ROOM - TSI 4" PIPE</u>
4. <u>004</u>	4. <u>ROOF MECHANICAL ROOM - TSI 6" PIPE</u>
5. <u>005</u>	5. <u>ROOF ELEVATOR HOIST ROOM - FIRE PROOFING</u>
6. <u>006</u>	6. <u>10<sup>th</sup> FLOOR SEC. STORAGE ROOM - 12"x12" FLOOR TILE</u>
7. <u>007</u>	10 <sup>th</sup> Flr. <u>SWC OFFICES - 9"x9" FLOOR TILE</u>
8. <u>008</u>	8. <u>9<sup>th</sup> FLOOR MECH ROOM - 9"x9" FLOOR TILE</u>
9. <u>009</u>	9. <u>9<sup>th</sup> FLOOR NEAR KITCHEN - 12"x12" FLOOR TILE</u>
10. <u>010</u>	10. <u>9<sup>th</sup> FLOOR ROOM 927 - 9"x9" FLOOR TILE</u>
11. <u>011</u>	11. <u>9<sup>th</sup> FLOOR BY ELEVATOR - 2'x4' CEILING TILE</u>
12. <u>012</u>	12. <u>9<sup>th</sup> FLOOR W OF ELEVATOR - FIRE PROOFING</u>
13. <u>013</u>	13. <u>9<sup>th</sup> FLOOR ROOM 910 - FIRE PROOFING</u>
14. <u>014</u>	14. <u>8<sup>th</sup> FLOOR NEAR STORAGE ROOM - 9"x9" FLOOR TILE</u>
15. <u>015</u>	15. <u>NE SIDE 8<sup>th</sup> FLOOR OFFICE - FIRE PROOFING</u>
16. <u>016</u>	16. <u>8<sup>th</sup> FLOOR ABOVE ELEV. ENTRANCE - FIRE PROOFING</u>
17. <u>017</u>	17. <u>7<sup>th</sup> FLOOR ROOM 718 - 12"x12" FLOOR TILE</u>
18. <u>018</u>	18. <u>7<sup>th</sup> FLOOR N. SIDE OF BLDG. CONTR. COLUMN - FIRE PROOFING</u>
19. <u>019</u>	19. <u>7<sup>th</sup> FLOOR ROOM 723 - 9"x9" FLOOR TILE</u>
20. <u>020</u>	20. <u>7<sup>th</sup> FLOOR ROOM 728 - FIRE PROOFING</u>
21. <u>021</u>	21. <u>6<sup>th</sup> FLOOR W. HALLWAY STORAGE ROOM - 12"x12" FLOOR TILE</u>
22. <u>022</u>	22. <u>6<sup>th</sup> FLOOR LOUNGE - 12"x12" FLOOR TILE</u>
23. <u>023</u>	23. <u>6<sup>th</sup> FLOOR ABOVE ELEVATOR - FIRE PROOFING</u>
24. <u>024</u>	24. <u>6<sup>th</sup> FLOOR ABOVE WALK-IN VAULT - FIRE PROOFING</u>
25. <u>025</u>	25. <u>5<sup>th</sup> FLOOR ROOM 513 - 9"x9" FLOOR TILE</u>

ANALYZED BY [Signature] DATE 6-22-98

QC ANALYST [Signature] DATE 6-22-98

SAMPLES RETURNED / DISPOSED DATE          BY         

SAMPLES RETURNED; RECEIVED BY:

980511

PO# 4188P259

TEC-AN, INC.

CHAIN OF CUSTODY

OFFICE # (405) 840-3335

FAX # (405) 842-7930

CLIENT Clark County Assessor LAB.# 2052 DATE 7

PROJECT Bridges Bldg. SAMPLED BY Jennis Kish # OF SAMPLES 7

TYPE OF SAMPLE Bulk DATE SAMPLED 6/20/98 DATE REC'D 6-22-98

RECEIVED BY [Signature] SHIPPED VIA Fed. Express

RELINQUISHED BY Fed. Express DATE 6-22-98 SAMPLE CONDITION Good

SAMPLE I.D.

LOCATION / DESCRIPTION

1. <u>026</u>	1. <u>5<sup>th</sup> Floor outside Room 517 - Fireproofing</u>
2. <u>027</u>	2. <u>5<sup>th</sup> Floor outside Room 501 - 12"x12" Ceiling Tile</u>
3. <u>028</u>	3. <u>5<sup>th</sup> Floor Room 513 - Fireproofing</u>
4. <u>029</u>	4. <u>4<sup>th</sup> Floor Parking Garage - Stucco on Wall</u>
5. <u>030</u>	5. <u>1<sup>st</sup> Floor Room 106 - Fireproofing</u>
6. <u>031</u>	6. <u>1<sup>st</sup> Floor Room 106 - 12"x12" Ceiling Tile</u>
7. <u>032</u>	7. <u>1<sup>st</sup> Floor Storage Room - 12"x12" Floor Tile</u>
8. <u>033</u>	8. <u>1<sup>st</sup> Floor Ballroom Entrance Hallway - 12"x12" Floor Tile</u>
9. <u>034</u>	9. _____
10. <u>035</u>	10. _____
11. <u>036</u>	11. _____
12. <u>037</u>	12. _____
13. <u>038</u>	13. _____
14. <u>039</u>	14. _____
15. <u>040</u>	15. _____
16. <u>041</u>	16. _____
17. <u>042</u>	17. _____
18. <u>043</u>	18. _____
19. _____	19. _____
20. _____	20. _____
21. _____	21. _____
22. _____	22. _____
23. _____	23. _____
24. _____	24. _____
25. _____	25. _____

ANALYZED BY [Signature] DATE 6-22-98

QC ANALYST \_\_\_\_\_ DATE \_\_\_\_\_

SAMPLES RETURNED / DISPOSED DATE \_\_\_\_\_ BY \_\_\_\_\_

SAMPLES RETURNED; RECEIVED BY: \_\_\_\_\_

TEC-AN, INC.

CHAIN OF CUSTODY

OFFICE # (405) 840-3335

FAX # (405) 842-7930

CLIENT Western Technologies LAB.# 980519 DATE 6-22-98

PROJECT 418856180 SAMPLED BY D.K./D.F. # OF SAMPLES 6

TYPE OF SAMPLE Soil DATE SAMPLED 6-22-98 DATE REC'D \_\_\_\_\_

RECEIVED BY Allen Lee SHIPPED VIA Fed Ex

RELINQUISHED BY Fed-Ex DATE 6/23/98 SAMPLE CONDITION OK

SAMPLE I.D.

LOCATION / DESCRIPTION

1. <u>34</u>	1. <u>Elevator room 1st floor / Stucco on wire mesh</u>
2. <u>35</u>	2. <u>Hallway 2nd floor / 2x4 Ceiling tile, 3/4" thick</u>
3. <u>36</u>	3. <u>Hallway 3rd floor / " "</u>
4. <u>37</u>	4. <u>Room 304 / dust work insulation</u>
5. <u>38</u>	5. <u>Room 304 / 2x4 Ceiling tile, 3/4" thick</u>
6. <u>39</u>	6. <u>1st floor elevator room entrance / Cove base</u>
7. _____	7. _____
8. _____	8. _____
9. _____	9. _____
10. _____	10. _____
11. _____	11. _____
12. _____	12. _____
13. _____	13. _____
14. _____	14. _____
15. _____	15. _____
16. _____	16. _____
17. _____	17. _____
18. _____	18. _____
19. _____	19. _____
20. _____	20. _____
21. _____	21. _____
22. _____	22. _____
23. _____	23. _____
24. _____	24. _____
25. _____	25. _____

ANALYZED BY Allen Lee DATE 6-22-98

QC ANALYST \_\_\_\_\_ DATE \_\_\_\_\_

SAMPLES RETURNED / DISPOSED DATE \_\_\_\_\_ BY \_\_\_\_\_

SAMPLES RETURNED; RECEIVED BY: \_\_\_\_\_

*Immediate TAT*

*P.O. # 4188P259*



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# Asbestos Abatement Cost Estimate

# Appendix E



# Converse Consultants

Over 50 Years of Dedication in Geotechnical Engineering and Environmental Sciences

August 18, 1999

99-43324-07

Mr. Brian Connolly  
Clark County General Services  
500 South Grand Central Parkway, 5<sup>th</sup> Floor  
Las Vegas, NV 89106

Subject: **Asbestos Consulting Services Cost Estimate**  
*Quantity and Abatement and Interior Demolition*  
Bridger Building  
225 Bridger Avenue  
Las Vegas, Nevada

Dear Mr. Connolly:

In accordance with your request, we are providing abatement cost estimate for the abatement of asbestos-containing and asbestos-contaminated materials at the subject site.

Subsequent to a thorough review of the structure, additional sampling and analysis, and review of previous reports prepared for the building, we have developed the following preliminary asbestos abatement estimate:

Material	Approximated Quantity	Cost Estimate (\$)
Structural Fire Proofing	104,000 s.f.	1,248,000.00
Floortile	25,000 s.f.	65,000.00
Pipe Run Insulation	2,500 l.f.	25,000.00
Pipe Elbow Insulation	400 each	12,000.00
Drywall and Compound	60,000 s.f.	102,000.00
Contaminated Materials		60,000.00
<b>Total Estimated Cost for Asbestos Abatement</b>		<b>\$1,509,000.00</b>

**Note:** The above asbestos abatement costs are only estimates. The actual cost for abatement may be greater or less than the projected estimated cost presented herein, and will therefore influence the estimated consulting service costs.

**Complete interior demolition cost estimate      \$450,000.00**

The above demolition cost estimate is based on current information provided by two local demolition contractors.

The above cost estimates are based on current Union Prevailing Wages. At this time, the major local abatement and general contractors are Union. A non-union contractor may decrease the cost approximately 10% to 15% of the above cost.

The difficulty factor involved with the structural fireproofing may increase the cost for this item 15% to 20%. The current ceiling system may need to be demolished to access the asbestos-containing fire proofing. All surfaces in the ceiling cavity will require cleaning. All porous materials in the ceiling cavities will also need to be disposed of as asbestos-contaminated materials.

Project monitoring was not included in this abatement estimate, but has been estimated at approximately at 10% of the abatement cost:

**Project Monitoring      \$130,000.00**

This monitoring fee cost estimate is based on a project duration of approximately 180 working days. This time could be decreased if the abatement contractor can complete this project in less time while working one 8-hour shift per day by using more workers.

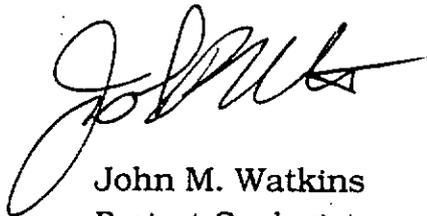
It should be recognized that the projected cost estimates presented herein have been based on numerous assumptions regarding quantity of ACMs, time required for demolition and current construction pricing. Therefore, this projected cost estimate should be considered accurate only to the degree implied by the methods used.

Clark County General Services  
Project No. 99-43324-01  
August 18, 1999  
Page 3.

If you have any questions regarding this information, please contact us  
at your convenience.

Sincerely,

CONVERSE CONSULTANTS



John M. Watkins  
Project Geologist  
NV License IPM0199

JMW:sc  
31/65BS

Dist: 1/Addressee

