

ADDENDUM NO. 1

DATE 06/06/2022

To all Bidders on the Project titled: Life and Physical Science Building Abatement and Demolition Project

Reference Bid Documents dated 06/02/2022.

The attention of bidders submitting proposals for the above subject project is called to the following addendum to the Bid Docs. The items set forth herein, whether of omission, addition, substitution, or clarifications are all to be included in and form a part of the proposal submitted.

THE NUMBER OF THIS ADDENDUM (1) MUST BE ENTERED IN THE APPROPRIATE SPACE PROVIDED in the bid package.

Addendum contents:

Site Map –

SiteMap.jpg– This is an image taken from Google Earth showing the site of the three buildings on the campus.

Building Layout Drawings –

EC-LI-Floorplan.pdf – This is a drawing of the Old Library

EC-LS-Floorplan.pdf – This is a drawing of the Life Science Building

EC-PS-Floorplan-Upper.pdf – This is a drawing of the Physical Science building upper level.

EC-PS-Floorplan-Lower.pdf – This is a drawing of the Physical Science building lower level.

HAZMAT Reports –

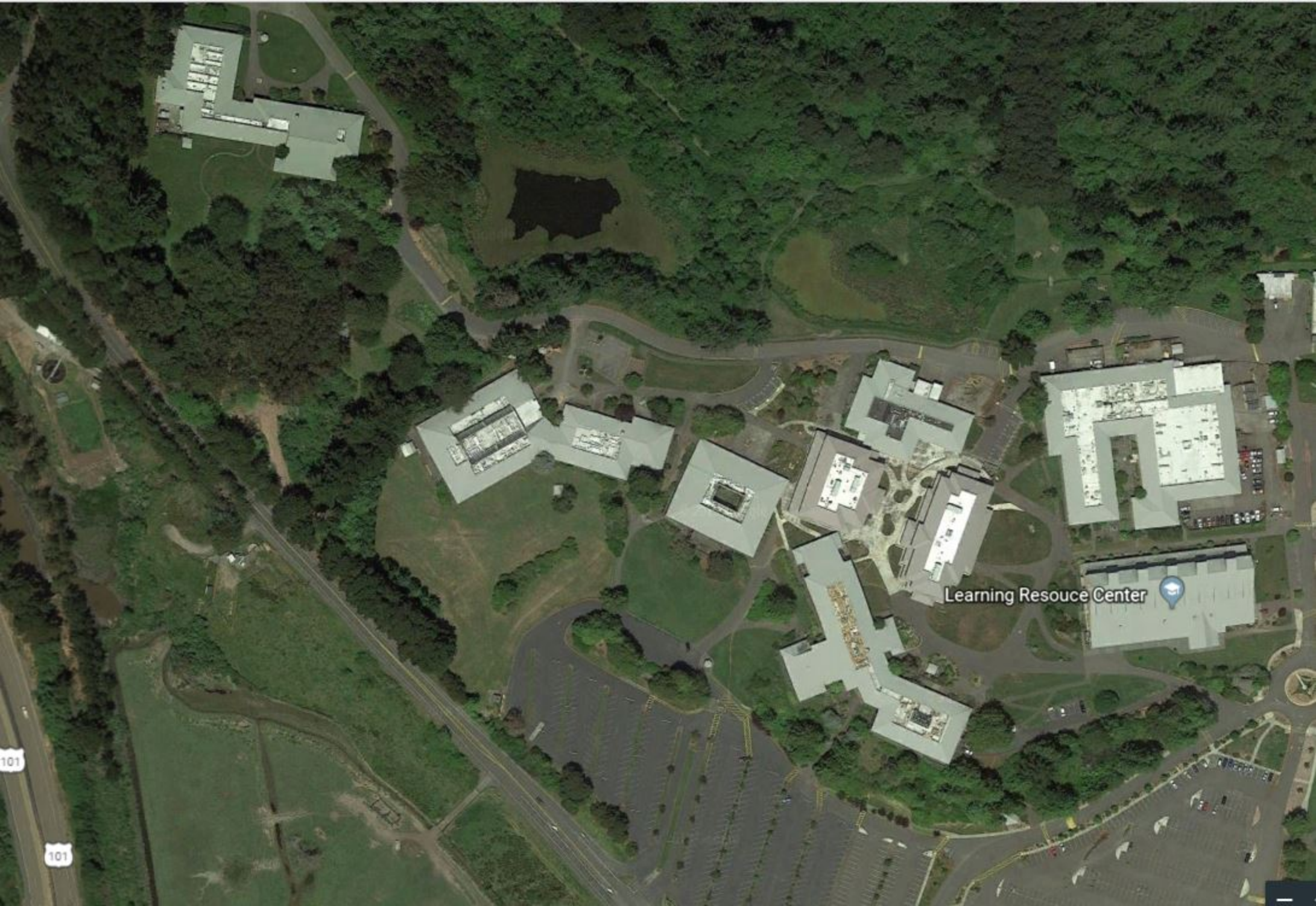
2012BakerEnvReport.pdf – this is a report from a 2012 asbestos survey of the Old Library Building at the COR main campus, 7351 Tompkins Hill Road, Eureka, California. The survey was conducted on January 25, 2012 by a Cal-OSHA Certified Asbestos Consultant.

asbestos survey 2004.pdf - LIMITED ASBESTOS SURVEY FOR THE COLLEGE OF THE REDWOODS PHYSICAL EDUCATION, APPLIED TECHNOLOGY/AUTOMOTIVE SHOP, CREATIVE ARTS, PHYSICAL SCIENCE, LIFE SCIENCE, OLD LIBRARY, AND FORUM BUILDINGS EUREKA, CALIFORNIA

All other portions of the Contract Documents remain **unchanged**.

Please be reminded to acknowledge this Addendum on the bid forms.

--- End of Addendum No. 1 ---

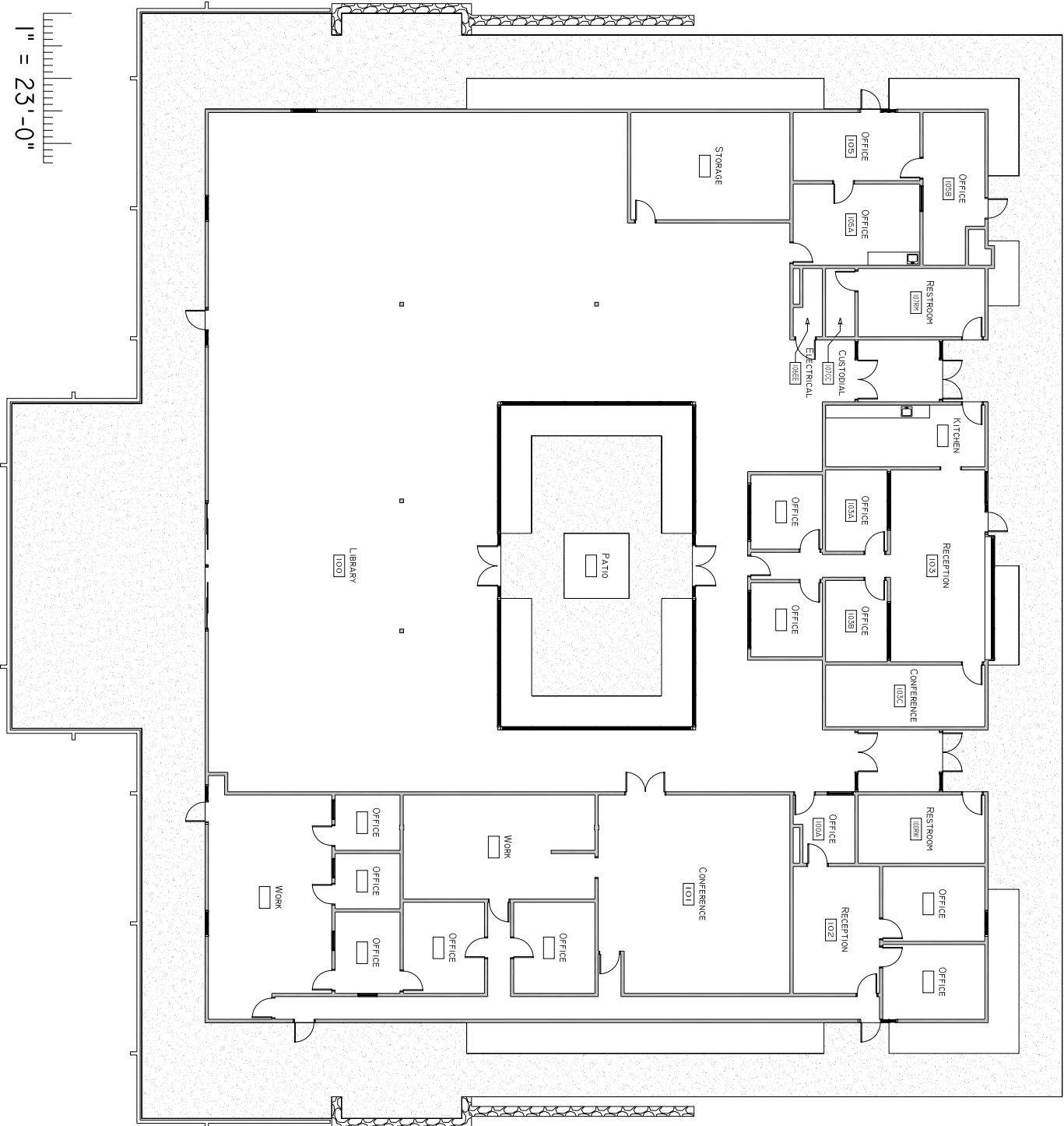


Learning Resouce Center



101

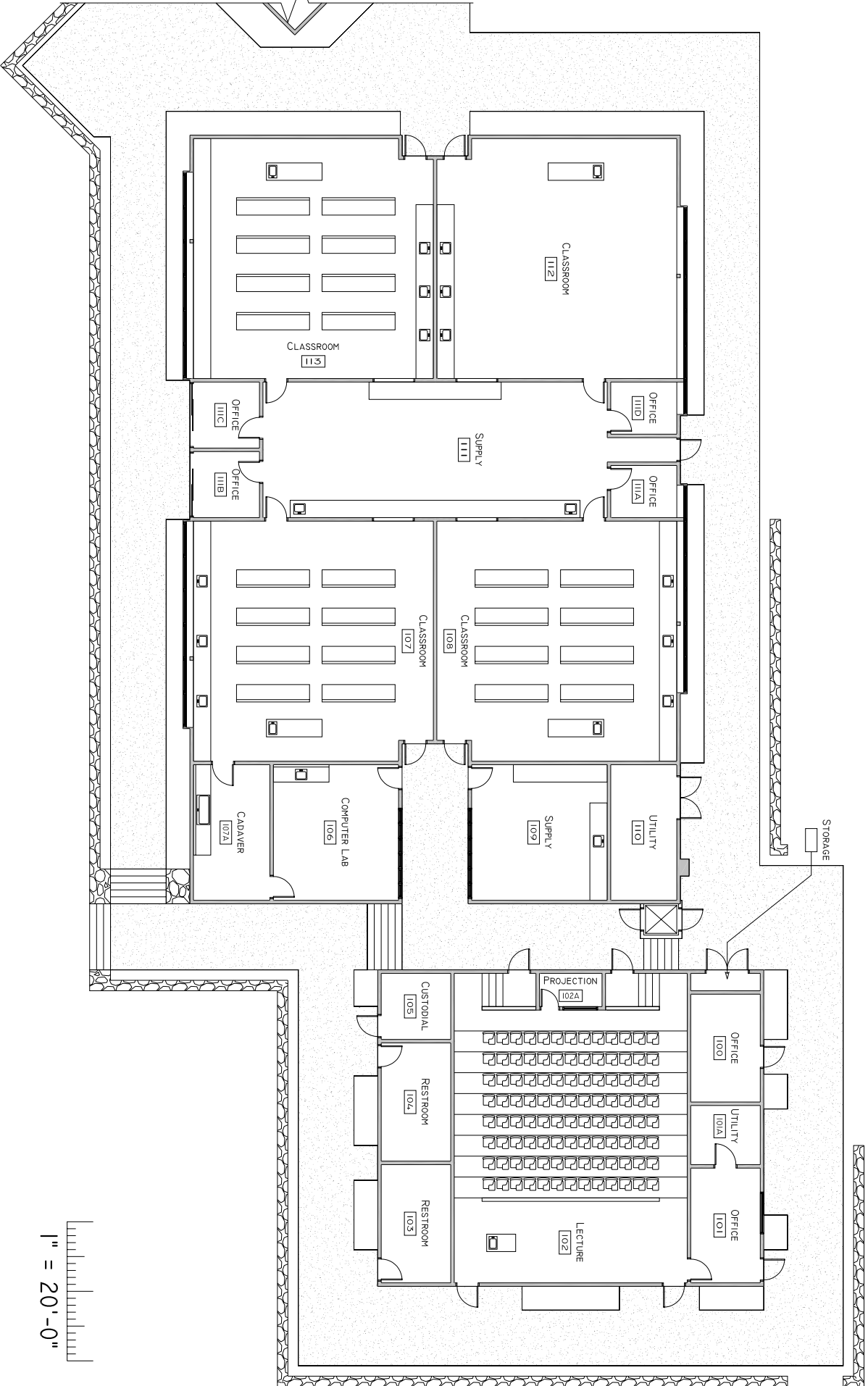
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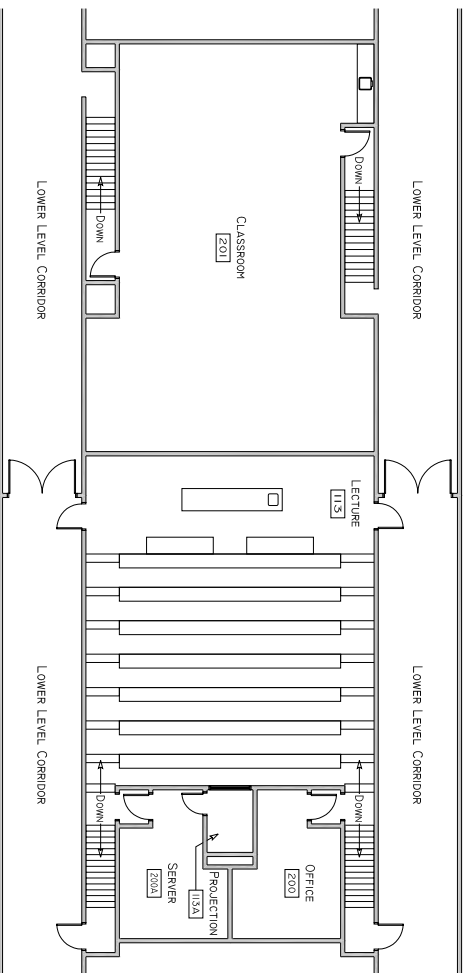


1" = 23'-0"

COLLEGE OF THE REDWOODS - EUREKA CAMPUS
 LIBRARY BUILDING (OUT OF SERVICE)

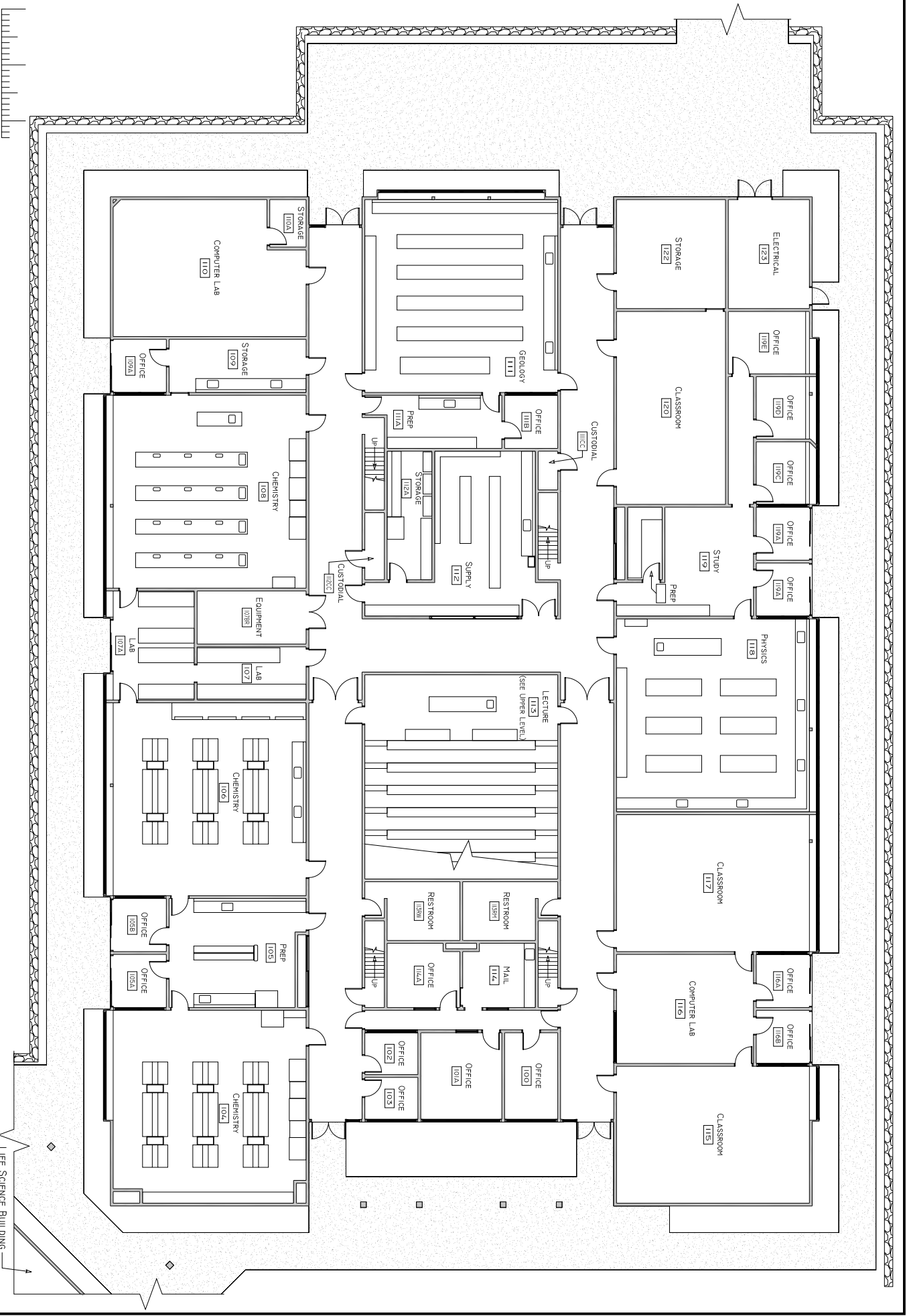
REDWOODS COMMUNITY COLLEGE DISTRICT
 REVISED THU 19 JUN 2008





COLLEGE OF THE REDWOODS - EUREKA CAMPUS
 PHYSICAL SCIENCE BUILDING - UPPER LEVEL

REDWOODS COMMUNITY COLLEGE DISTRICT
 REVISED FRI 27 JUN 2008



1" = 23'-0"

COLLEGE OF THE REDWOODS - EUREKA CAMPUS
 PHYSICAL SCIENCE BUILDING - LOWER LEVEL

REDWOODS COMMUNITY COLLEGE DISTRICT
 REVISED FRI 27 JUN 2008

BAKER ENVIRONMENTAL

Environmental Consultants

July 11, 2012

Tim Flanagan
College of the Redwoods
7351 Tompkins Hill Road
Eureka, California 95501

Subject: **Old Library Building**, COR, 7351 Tompkins Hill Road, Eureka, California – Limited
Asbestos Survey

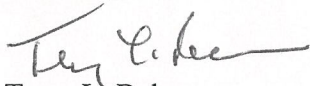
Dear Mr. Flanagan:

Per your request BAKER ENVIRONMENTAL conducted an asbestos survey of the Old Library Building at the COR main campus, 7351 Tompkins Hill Road, Eureka, California. The survey was conducted on January 25, 2012 by a Cal-OSHA Certified Asbestos Consultant. Two copies of our survey report are attached.

Please be advised that we found regulated asbestos-containing materials (RACM's) during the survey. RACM's included thermal system insulation, drywall skim coat and drywall joint compound. These materials, if disturbed or removed or removed during the proposed renovation project must be removed by a Cal-OSHA licensed asbestos abatement contractor and disposed in accordance with state regulations. Notifications to the North Coast Air Quality Management District and Cal-OSHA are also required.

Thank you for the opportunity to be of service. We have attached our invoice for services.

Sincerely,



Terry L. Baker
CAC No. 92-0322

TB/mk

enc

**ASBESTOS SURVEY REPORT
COLLEGE OF THE REDWOODS
OLD LIBRARY BUILDING
7351 TOMPKINS HILL ROAD
EUREKA, CALIFORNIA
JULY 10, 2012**

FOR

**REDWOODS COMMUNITY COLLEGE DISTRICT
7351 TOMPKINS HILL ROAD
EUREKA, CALIFORNIA 95501**

PREPARED BY

**BAKER ENVIRONMENTAL
550 N. MAIN STREET
YREKA, CALIFORNIA 96097
DOSH CERTIFIED ASBESTOS CONSULTANT NO. 92-0322**

**ASBESTOS SURVEY REPORT
COLLEGE OF THE REDWOODS
OLD LIBRARY BUILDING
7351 TOMPKINS HILL ROAD
EUREKA, CALIFORNIA
JULY 10, 2012**

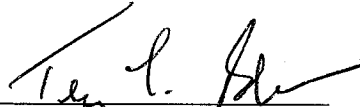
CERTIFICATION & LIMITATIONS

This report was prepared in accordance with industry standards and regulatory requirements. Site conditions are subject to change with time therefore; the findings and opinions offered in this report by BAKER ENVIRONMENTAL represent conditions observed at the site on the dates of survey.

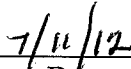
A diligent effort was made to identify all asbestos-containing materials and asbestos-containing construction materials during the survey. Any materials suspected to contain asbestos that are identified during renovation and or demolition of the structure must be sampled and analyzed for asbestos prior to their disturbance.

This report was prepared under the supervision of a California Industrial Relations Department, Division of Occupational Safety & Health Certified Asbestos Consultant.

By:



Terry L. Baker CAC No. 92-0322



Date

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**ASBESTOS SURVEY REPORT
COLLEGE OF THE REDWOODS
OLD LIBRARY BUILDING
7351 TOMPKINS HILL ROAD
EUREKA, CALIFORNIA
JULY 10, 2012**

1.0 EXECUTIVE SUMMARY

The Redwoods Community College District retained BAKER ENVIRONMENTAL to conduct an asbestos survey of the old library building at the College of the Redwoods, 7351 Tompkins Hill Road, Eureka, California. The purpose of survey was to identify asbestos-containing materials (ACM's) prior to renovation of the building. ACM's are materials that contain more than 1% asbestos. The survey was conducted on January 25, 2012 by a Cal-OSHA Certified Asbestos Consultant.

Construction

The building is a one-story wood framed structure on a concrete slab foundation. The building was constructed in the 1960's.

The exterior walls are wood-framed and finished with redwood siding and trim. The original interior walls as well as the perimeter walls have drywall covered with redwood boards except for restrooms and other miscellaneous spaces. The ceilings throughout the building have sheetrock over joists and are finished with redwood boards except for offices, storage rooms and miscellaneous spaces. These rooms have drywall ceilings, or are finished with acoustic ceiling tiles or suspended ceiling panels. The existing restroom walls and ceilings are finished with drywall and painted. Ceramic wall tile is present on the lower portion of the restroom walls.

The building has been renovated within the past 15 years. Interior partition walls were constructed primarily on the north and east sides of building. The walls were typically finished with drywall, textured and painted. The rooms are finished with suspended ceiling panels or are open to original redwood finished ceilings.

Rooms throughout the building have carpet on floors except for the restrooms that have ceramic floor tiles. Exposed concrete is evident in some areas where carpet has been removed. Roof has wood decking finished with metal.

Sampling

Samples of suspect ACM's were collected of representative materials throughout the COR Old Library Building during the asbestos survey. Suspect materials sampled include the following:

- Thermal system insulation in janitor room and assumed to be within restroom walls and ceilings as well as kitchen walls and ceilings. The thermal system insulation shall also be assumed to be at other locations within walls and ceilings where plumbing is present.
- Drywall tape joint compound throughout the building;
- Drywall skim coat texture throughout original portions of building in offices, kitchen, restrooms, storage rooms and miscellaneous spaces;
- Drywall texture on drywall in rooms and spaces where building has been renovated;
- Sheetrock throughout the building;
- 12"X 24" white/tan ceiling tiles in rooms 103A and 103C;
- 2'X 4' suspended ceiling tiles throughout the building;
- Brown ceramic tile adhesive in restrooms;
- Carpet adhesives throughout the building.

The following ACM's (>1.0% asbestos) were identified in the building:

- Drywall tape joint compound on all original wall and ceilings throughout the building including but not limited to perimeter walls, interior partition walls in kitchen, restrooms, offices, conference room, storage rooms and miscellaneous spaces. The drywall tape joint compound is also on drywall behind all redwood faced walls and ceilings throughout building as well as behind spaces where acoustic ceiling tiles are attached to drywall in offices, corridors and other spaces.
- Thermal system insulation in janitor room and assumed to be within men's and women's restroom walls and ceilings as well as kitchen walls and ceilings. The thermal system insulation shall also be assumed to be at other locations within walls and ceilings where plumbing is present.
- Drywall skim coat on walls and ceilings in kitchen and men's and women's restrooms as well as room 100A.

All regulated asbestos-containing material (RACM) that will be disturbed during a renovation or demolition project must be abated (removed) by a California Division of Occupational Safety and Health (DOSH) licensed abatement contractor in accordance with applicable state and local regulations prior to their disturbance. The North Coast Air Quality Management District and Cal-OSHA have notification requirements prior to disturbance or removal of RACM.

The following RACM's were identified that must be removed by a DOSH licensed contractor prior to building renovation if they will be disturbed or removed:

- Drywall tape joint compound on all original wall and ceilings throughout the building including but not limited to perimeter walls, interior partition walls in kitchen, restrooms, offices, conference room, storage rooms and miscellaneous spaces. The drywall tape joint compound is also on drywall behind all redwood

faced walls and ceilings throughout building as well as behind spaces where acoustic ceiling tiles are attached to drywall in offices, corridors and other spaces.

- Thermal system insulation in janitor room and assumed to be within men's and women's restroom walls and ceilings as well as kitchen walls and ceilings. The thermal system insulation shall also be assumed to be at other locations within walls and ceilings where plumbing is present.
- Drywall skim coat on walls and ceilings in kitchen and men's and women's restrooms as well as room 100A.

There are currently no federal, state or local regulations that require the removal of any ACM unless said materials will be disturbed during a building renovation, remodel, demolition, fire training burn or similar project. All building demolitions require notification to the U.S. Environmental Protection Agency and the North Coast Unified Air Quality Management District for projects in Humboldt County. Building renovations also require notification to the air district and EPA if regulated quantities of RACM are removed.

**ASBESTOS SURVEY REPORT
COLLEGE OF THE REDWOODS
OLD LIBRARY BUILDING
7351 TOMPKINS HILL ROAD
EUREKA, CALIFORNIA
JULY 10, 2012**

2.0 INTRODUCTION

The Redwoods Community College District retained BAKER ENVIRONMENTAL to conduct an asbestos survey of the old library building at the College of the Redwoods, 7351 Tompkins Hill Road, Eureka, California. The purpose of survey was to identify asbestos-containing materials (ACM's) prior to renovation of the building. ACM's are materials that contain more than 1% asbestos. The survey was conducted on January 25, 2012 by a Cal-OSHA Certified Asbestos Consultant.

Survey methodology included:

1. Visual inspection of all accessible building materials;
2. Determination of friability^a of each material by touching;
3. Assessment of physical condition of each material;
4. Assessment of potential for disturbance and or damage;
5. Collection of materials suspected to be ACM;
6. Sample analysis by a National Voluntary Laboratory Accreditation Program (NVLAP) accredited laboratory;
7. Preparation of a sample location map;
8. Determination of quantities of ACM;
9. Prepare survey inspection report.

^a Friable shall mean easily crushed to powder by application of hand pressure.

Limited destructive testing was conducted to gain access to materials located in interior spaces of walls and ceilings. No suspect ACM's were identified in interior wall and ceiling spaces that were accessed during testing other than identified in this report. Additional materials that contain asbestos may be encountered during building renovation. It is assumed that thermal system insulation (TSI) is present on domestic water system plumbing components in interior wall and ceiling spaces where plumbing is located. TSI may also be present at other locations. Construction shall be terminated upon discovery of any new building materials that were not identified during the asbestos survey. Said materials shall be considered to be ACM's until samples of materials are collected and verified by laboratory analysis to be absent for asbestos.

3.0 BUILDING STRUCTURE AND CONDITIONS

3.1 BUILDING CONSTRUCTION

The building is a one-story wood framed structure on a concrete slab foundation. The building was constructed in the 1960's.

The exterior walls are wood-framed and finished with redwood siding and trim. The original interior walls as well as the perimeter walls have drywall covered with redwood boards except for restrooms and other miscellaneous spaces. The ceilings throughout the building have sheetrock over joists and are finished with redwood boards except for offices, storage rooms and miscellaneous spaces. These rooms have drywall ceilings, or are finished with acoustic ceiling tiles or suspended ceiling panels. The existing restroom walls and ceilings are finished with drywall and painted. Ceramic wall tile is present on the lower portion of the restroom walls.

The building has been renovated within the past 15 years. Interior partition walls were constructed primarily on the north and east sides of building. The walls were typically finished with drywall, textured and painted. The rooms are finished with suspended ceiling panels or are open to original redwood finished ceilings.

Rooms throughout the building have carpet on floors except for the restrooms that have ceramic floor tiles. Exposed concrete is evident in some areas where carpet has been removed. Roof has wood decking finished with metal.

4.0 SAMPLING PROTOCOLS

4.1 SUSPECT ASBESTOS-CONTAINING MATERIALS AND ASBESTOS-CONTAINING CONSTRUCTION MATERIALS

BAKER ENVIRONMENTAL conducted an on-site visual survey of the Old Library Building on January 25, 2012 to identify suspect asbestos-containing material (ACM), asbestos-containing construction material (ACCM), and presumed asbestos-containing material (PACM). ACM is any material with an asbestos content >1,0%, ACCM is any construction material with an asbestos content >0.1% w/w. PACM is any thermal system insulation, surfacing material and resilient floor covering installed prior to 1981.

As the result of building survey it was determined that primary building materials considered as suspect ACM's, ACCM's and PACM in the project area included:

- Thermal system insulation in janitor room and assumed to be within restroom walls and ceilings as well as kitchen walls and ceilings. The thermal system insulation shall also be assumed to be at other locations within walls and ceilings where plumbing is present.

- Drywall tape joint compound throughout the building;
- Drywall skim coat texture throughout original portions of building in offices, kitchen, restrooms, storage rooms and miscellaneous spaces;
- Drywall texture on drywall in rooms and spaces where building has been renovated;
- Sheetrock throughout the building;
- 12"X 24" white/tan ceiling tiles in rooms 103A and 103C;
- 2'X 4' suspended ceiling tiles throughout the building;
- Brown ceramic tile adhesive in restrooms;
- Carpet adhesives throughout the building.

4.2 SAMPLE COLLECTION LOCATIONS

BAKER ENVIRONMENTAL collected samples of suspect ACM's from the Old Library Building during the asbestos survey. Sample locations are representative of materials listed in *Section 4.1 Suspect Asbestos-Containing Materials*. See **Figure 1** for sample locations.

Sample Collection and Chain of Custody Procedure

Each sample was collected using a "wet method" to prevent the potential release of asbestos fibers during sample collection. Coring devices, utility knives and chisels were used to facilitate the removal of a cross-section of each sample material. Each sample was placed in a sealed container and assigned a specific sample number. The location of each sample collection point was recorded on a field drawing and a chain of custody form was prepared listing sample numbers, location and material description. The samples were then submitted to the laboratory for analysis.

Laboratory Accreditation and Analysis

Samples were forwarded to an asbestos laboratory for bulk asbestos analysis using the polarized light microscopy method (PLM). The PLM method and procedures are specified under the Code of Federal Regulations, 40 CFR Part 763, Appendix A to Subpart F, Section 1.2 and 1.7.2.4. The PLM detection limit for asbestos is generally >1% by volume. Sample results that are determined by the PLM method to be <1% are reported as "Trace" or <1%. A sample with "<1%" level of asbestos shall be considered to be asbestos-containing. Further analysis of the samples by the Gravimetric/Transmission Electron Microscopy Method or PLM point counting (400 points) is required to determine asbestos content below 1%.

Laboratory methodology includes the analysis of each separate layer of sample material where multiple layers exist. A typical material containing more than one layer includes floor tile with mastic. It is difficult to separate the two layers during sample collection.

The laboratory segregates the two materials and reports the asbestos content separately for the floor tile and mastic.

Laboratory accreditations include:

National Institute of Standards and Technology (NVLAP)
AIHA Asbestos Analyst Registry Program

Laboratory Bulk Sample Analysis Report for the project is attached in **Appendix A**.

5.0 SAMPLE RESULTS

5.1 ASBESTOS-CONTAINING MATERIALS

The following asbestos-containing materials (ACM's) were identified in the former College of the Redwoods Old Library Building located at 7351 Tompkins Hill Road, Eureka, California:

- Drywall tape joint compound on all original wall and ceilings throughout the building including but not limited to perimeter walls, interior partition walls in kitchen, restrooms, offices, conference room, storage rooms and miscellaneous spaces. The drywall tape joint compound is also on drywall behind all redwood faced walls and ceilings throughout building as well as behind spaces where acoustic ceiling tiles are attached to drywall in offices, corridors and other spaces.
- Thermal system insulation in janitor room and assumed to be within men's and women's restroom walls and ceilings as well as kitchen walls and ceilings. The thermal system insulation shall also be assumed to be at other locations within walls and ceilings where plumbing is present.
- Drywall skim coat on walls and ceilings in kitchen and men's and women's restrooms as well as room 100A.

Table 1 includes a "*Summary of Asbestos-Containing Material (ACM)- COR Old Library Building, 7351 Tompkins Hill Road, Eureka, CA.*"

6.0 REGULATORY COMPLIANCE

Federal, state and local agencies regulate asbestos-containing material (ACM), asbestos-containing construction material (ACCM) and presumed asbestos-containing material (PACM) in commercial, industrial and institutional building in California. Residential structures are also regulated by fire departments and some air quality and building departments when scheduled for renovation, demolition or fire training.

ACM is an asbestos-containing material containing more than 1% asbestos (>1%). The Federal Occupational Safety and Health Administration regulations for asbestos (29 CFR

1910.1001) and U.S. Environmental Protection Agency National Emission Standards for Hazardous Air Pollutants (NESHAPS) include rules for the disturbance and or removal of ACM during building repair, remodel, renovation, fire training projects, demolition or similar activity.

ACCM is an asbestos-containing construction material in California containing more than 0.1% asbestos (>0.1%). Several California regulations apply when ACCM will be disturbed or removed during a building repair, remodel, renovation, demolition or similar activity. These regulations require that a building owner contract with a California Division of Occupational Safety and Health (DOSH) licensed asbestos abatement contractor when more than 100 square feet of ACCM will be disturbed or removed. The California Occupational Safety and Health Act (Cal-OSHA) Construction Standard for Asbestos (8 CCR 1529) and the General Industry Standard (8 CCR 5208) rules and regulations establish classes of work for asbestos related projects and training requirements for workers. Respiratory protection regulations, medical surveillance and personal air monitoring requirements are set forth in the regulations. Federal and state notifications for asbestos abatement projects are also established.

The California Health & Safety Code Section 25915-25924 requires that commercial building owners, lessees, and employers notify employees, contractors and tenants of the presence of ACCM in the building. Notification is required within fifteen (15) days of the date when the building owner becomes aware of the presence of asbestos in the building and shall further provide annual notification thereafter. A copy of any asbestos inspection or survey performed in the building shall be made available to building owner's employees, employers, lessees, contractors and tenants. A written notification is recommended.

Other federal, state and local rules and regulations apply to the disturbance or removal of asbestos. These rules and regulations generally require that a building owner identify ACM, ACCM and PACM in their building prior to their disturbance, removal, demolition or similar activity. Substantial fines and penalties may be levied against the building owner by one or more government agencies for failure to comply with the regulations.

The local air quality management district and Cal-OSHA must be notified prior to the disturbance and or removal of regulated asbestos-containing material (RACM). The air quality management district must be notified a minimum of 10 days prior to the disturbance of regulated quantities of RACM during building renovation or demolition projects in accordance with the National Emissions Standards for Hazardous Air Pollutants (NESHAPS). Cal-OSHA must be notified a minimum of 24 hours prior to disturbance in accordance with 8 CCR 1529.

7.0 CONCLUSIONS AND RECOMMENDATIONS

7.1 CONCLUSIONS

BAKER ENVIRONMENTAL concludes, as a result of the asbestos survey of the Old Library Building at the College of the Redwoods Campus, 7351 Tompkins Hill Road, Eureka, California that RACM's) are present. The following RACM's were identified:

- Drywall tape joint compound on all original wall and ceilings throughout the building including but not limited to perimeter walls, interior partition walls in kitchen, restrooms, offices, conference room, storage rooms and miscellaneous spaces. The drywall tape joint compound is also on drywall behind all redwood faced walls and ceilings throughout building as well as behind spaces where acoustic ceiling tiles are attached to drywall in offices, corridors and other spaces.
- Thermal system insulation in janitor room and assumed to be within men's and women's restroom walls and ceilings as well as kitchen walls and ceilings. The thermal system insulation shall also be assumed to be at other locations within walls and ceilings where plumbing is present.
- Drywall skim coat on walls and ceilings in kitchen and men's and women's restrooms as well as room 100A.

7.2 RECOMMENDATIONS

The disturbance and or removal of RACM(s) and or ACCM during a building demolition, repairs, remodels or renovations are regulated by federal, state and local agencies. The U.S. Environmental Protection Agency (EPA), California Environmental Protection Agency, California Occupational Safety and Health (CAL-OSHA), California Air Resources Board and local air quality management districts have specific regulations governing asbestos disturbance or abatement.

ACM was identified in the Old Library Building, 7351 Tompkins Hill Road, Eureka. All RACM that will be disturbed or removed during a renovation or demolition project must be abated (removed) by a California Division of Occupational Safety and Health (DOSH) licensed abatement contractor in accordance with applicable state and local regulations prior to their disturbance. RACM includes:

- Drywall tape joint compound on all original wall and ceilings throughout the building including but not limited to perimeter walls, interior partition walls in kitchen, restrooms, offices, conference room, storage rooms and miscellaneous spaces. The drywall tape joint compound is also on drywall behind all redwood faced walls and ceilings throughout building as well as behind spaces where acoustic ceiling tiles are attached to drywall in offices, corridors and other spaces.
- Thermal system insulation in janitor room and assumed to be within men's and women's restroom walls and ceilings as well as kitchen walls and ceilings. The thermal system insulation shall also be assumed to be at other locations within walls and ceilings where plumbing is present.
- Drywall skim coat on walls and ceilings in kitchen and men's and women's restrooms as well as room 100A.

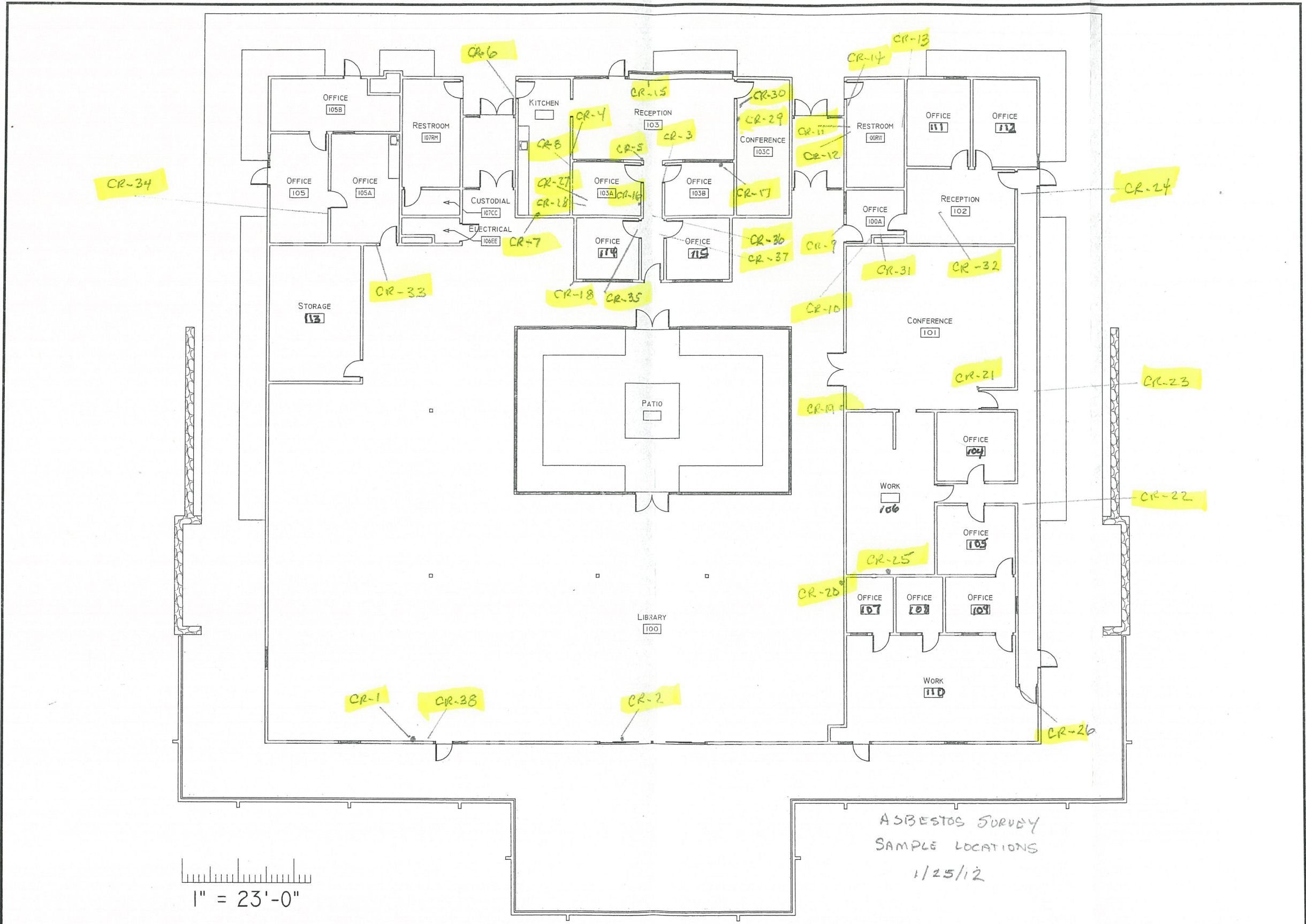
The areas of the Old Library Building with asbestos-containing thermal system insulation and drywall skim coat must be removed, transported and disposed as hazardous wastes in California. Said transportation and disposal must be in accordance with State of California regulations that require hazardous waste manifests and approved disposal sites. The remaining RACM including drywall joint compound must be transported to and disposed at a state approved disposal site.

TABLE 1

SUMMARY OF ASBESTOS-CONTAINING MATERIAL (ACM)-COR OLD LIBRARY BUILDING, 7351 TOMPKINS HILL ROAD, CALIFORNIA

Sample#	Space	Description	Location	%Asbestos	Friable	Quantity¹
CR-1 to CR-10 CR-13,CR-14 CR-28,CR-30 CR-31,CR-33	Throughout Bldg. (Original Construction)	Drywall joint compound	Walls/ceilings	2-3	No	Throughout
CR-3 to CR-10 CR-13, CR-14	Restrooms, Kitchen Custodial, Office 100A	Drywall texture/skim coats	Walls	2-3	Yes	Throughout
N/A	Restrooms, Custodial 103 Kitchen, Misc. Locations	Thermal system insulation	Walls/ceilings	Assumed	Yes	Throughout

¹ Quantities of materials listed are approximate.



COLLEGE OF THE REDWOODS - EUREKA CAMPUS
LIBRARY BUILDING (OUT OF SERVICE)

REDWOODS COMMUNITY COLLEGE DISTRICT
REVISED THU 19 JUN 2008

APPENDIX A



2033 Heritage Park Drive / Oklahoma City, OK 73120 / (405) 755-7272 / Fax (405) 755-2058

Polarized Light Microscopy Asbestos Analysis Report

Quantem Lab No. 203831	Client: Baker Environmental
Account Number: B254	550 N Main St
	Yreka, CA 96097
Date Received: 01/27/2012	
Received By: Morgan Lane	
Date Analyzed: 01/30/2012	Project: College of the Redwoods
Analyzed By: Gayle Ooten	Project Location: 7351 Tompkins Hill Road, Eureka, CA
Methodology: EPA/600/R-93/116	Project Number: 1151

Quantem Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
001	CR-1	Homogeneous	White Joint Compound	Asbestos Present Chrysotile 2	NA	CaCO3 Binder
002	CR-2	Homogeneous	White Joint Compound	Asbestos Present Chrysotile 3	Cellulose <1	CaCO3 Binder
003	CR-3	Homogeneous	White Joint Compound	Asbestos Present Chrysotile 3	NA	CaCO3 Binder
004	CR-4	Homogeneous	White Joint Compound	Asbestos Present Chrysotile 2	Cellulose <1	CaCO3 Binder
005	CR-5	Homogeneous	White Joint Compound	Asbestos Present Chrysotile 3	NA	CaCO3 Binder
006	CR-6	Homogeneous	White Joint Compound	Asbestos Present Chrysotile 3	Cellulose <1	CaCO3 Paint
007	CR-7	Homogeneous	White Joint Compound	Asbestos Present Chrysotile 2	NA	CaCO3 Paint

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

Quantem is a NVLAP accredited TEM and PLM laboratory (Lab Code: 101959-0). This report relates only to the specific items tested. NVLAP accreditation applies only to analysis performed utilizing EPA/600/M4-82-020 and EPA/600/R-93/116 methods. This report may not be used to claim product endorsement by NVLAP or any other agency of the US Government. This report may not be reproduced except in full, without the written approval of the laboratory.



2033 Heritage Park Drive / Oklahoma City, OK 73120 / (405) 755-7272 / Fax (405) 755-2058

Polarized Light Microscopy Asbestos Analysis Report

Quantem Lab No. 203831	Client: Baker Environmental
Account Number: B254	550 N Main St
	Yreka, CA 96097
Date Received: 01/27/2012	
Received By: Morgan Lane	
Date Analyzed: 01/30/2012	Project: College of the Redwoods
Analyzed By: Gayle Ooten	Project Location: 7351 Tompkins Hill Road, Eureka, CA
Methodology: EPA/600/R-93/116	Project Number: 1151

Quantem Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
008	CR-8	Homogeneous	White Joint Compound	Asbestos Present Chrysotile 2	Cellulose <1	CaCO3 Paint
009	CR-9	Homogeneous	White Joint Compound	Asbestos Present Chrysotile 3	NA	CaCO3 Binder
010	CR-10	Homogeneous	White Joint Compound	Asbestos Present Chrysotile 3	Cellulose <1	CaCO3 Binder
011	CR-11	Homogeneous	White Sheetrock	Asbestos Not Present	Cellulose 5	Gypsum
012	CR-12	Homogeneous	Tan Mastic	Asbestos Not Present	Cellulose 6	Glue
013	CR-13	Homogeneous	White Joint Compound	Asbestos Present Chrysotile 2	NA	CaCO3 Binder
014	CR-14	Homogeneous	White Joint Compound	Asbestos Present Chrysotile 3	NA	CaCO3 Binder

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

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2033 Heritage Park Drive / Oklahoma City, OK 73120 / (405) 755-7272 / Fax (405) 755-2058

Polarized Light Microscopy Asbestos Analysis Report

Quantem Lab No. 203831	Client: Baker Environmental
Account Number: B254	550 N Main St
	Yreka, CA 96097
Date Received: 01/27/2012	
Received By: Morgan Lane	
Date Analyzed: 01/30/2012	Project: College of the Redwoods
Analyzed By: Gayle Ooten	Project Location: 7351 Tompkins Hill Road, Eureka, CA
Methodology: EPA/600/R-93/116	Project Number: 1151

Quantem Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
015	CR-15	Homogeneous	White Texture	Asbestos Not Present	Cellulose <1	CaCO3 Paint
016	CR-16	Homogeneous	White Texture	Asbestos Not Present	NA	CaCO3 Paint
017	CR-17	Homogeneous	White Texture	Asbestos Not Present	NA	CaCO3 Paint
018	CR-18	Homogeneous	White Texture	Asbestos Not Present	NA	CaCO3 Paint
019	CR-19	Homogeneous	White Texture	Asbestos Not Present	Cellulose <1	CaCO3 Paint
020	CR-20	**	** **	**	Not Analyzed	
No Sample in Container						
021	CR-21	Homogeneous	White Texture	Asbestos Not Present	NA	CaCO3 Paint

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

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Polarized Light Microscopy Asbestos Analysis Report

QuanTEM Lab No. 203831	Client: Baker Environmental
Account Number: B254	550 N Main St
	Yreka, CA 96097
Date Received: 01/27/2012	
Received By: Morgan Lane	
Date Analyzed: 01/30/2012	Project: College of the Redwoods
Analyzed By: Gayle Ooten	Project Location: 7351 Tompkins Hill Road, Eureka, CA
Methodology: EPA/600/R-93/116	Project Number: 1151

QuanTEM Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
022	CR-22	Homogeneous	White Texture	Asbestos Not Present	NA	CaCO3 Paint
023	CR-23	Homogeneous	White Texture	Asbestos Not Present	NA	CaCO3 Paint
024	CR-24	Homogeneous	White Texture	Asbestos Not Present	NA	CaCO3 Paint
025	CR-25	Homogeneous	White Texture	Asbestos Not Present	NA	CaCO3 Paint
026	CR-26	Homogeneous	White Texture	Asbestos Not Present	NA	CaCO3 Paint
027	CR-27	Homogeneous	White Ceiling Tile	Asbestos Not Present	Cellulose 75	Paint Binder
028	CR-28	Homogeneous	White Joint Compound	Asbestos Present Chrysotile <1	Cellulose 2	CaCO3 Binder

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

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Polarized Light Microscopy Asbestos Analysis Report

Quantem Lab No. 203831	Client: Baker Environmental
Account Number: B254	550 N Main St
	Yreka, CA 96097
Date Received: 01/27/2012	
Received By: Morgan Lane	
Date Analyzed: 01/30/2012	Project: College of the Redwoods
Analyzed By: Gayle Ooten	Project Location: 7351 Tompkins Hill Road, Eureka, CA
Methodology: EPA/600/R-93/116	Project Number: 1151

Quantem Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
029	CR-29	Homogeneous	White Ceiling Tile	Asbestos Not Present	Cellulose 75	Paint Binder
030	CR-30	Homogeneous	White Joint Compound	Asbestos Present Chrysotile 2	Cellulose 2	CaCO3 Binder
031	CR-31	Homogeneous	White Joint Compound	Asbestos Present Chrysotile 2	Cellulose <1	CaCO3 Binder
032	CR-32	Homogeneous	White Ceiling Tile	Asbestos Not Present	Cellulose 30 Glass Fiber 30	Paint Perlite
033	CR-33	Homogeneous	White Joint Compound	Asbestos Present Chrysotile 2	NA	CaCO3 Binder
034	CR-34	Homogeneous	Brown Carpet Mastic	Asbestos Not Present	NA	Glue
035	CR-35	Homogeneous	Yellow Carpet Mastic	Asbestos Not Present	Cellulose <1	Glue

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

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Polarized Light Microscopy Asbestos Analysis Report

Quantem Lab No. 203831

Account Number: B254

Date Received: 01/27/2012

Received By: Morgan Lane

Date Analyzed: 01/30/2012

Analyzed By: Gayle Ooten

Methodology: EPA/600/R-93/116

Client: Baker Environmental

550 N Main St

Yreka, CA 96097

Project: College of the Redwoods

Project Location: 7351 Tompkins Hill Road, Eureka, CA

Project Number: 1151

Quantem Sample ID	Client Sample ID	Composition	Color / Description	Asbestos (%)	Non-Asbestos Fiber (%)	Non Fibrous
036	CR-36	Homogeneous	Yellow Carpet Mastic	Asbestos Not Present	NA	Glue
037	CR-37	Homogeneous	Brown Carpet Mastic	Asbestos Not Present	NA	Glue
038	CR-38	Homogeneous	White Sheetrock	Asbestos Not Present	Cellulose	3 Gypsum

Gayle Ooten, Analyst

1/31/2012

Date of Report

Unless otherwise noted, upon receipt the condition of the sample was acceptable for analysis.

Quantem is a NVLAP accredited TEM and PLM laboratory (Lab Code: 101959-0). This report relates only to the specific items tested. NVLAP accreditation applies only to analysis performed utilizing EPA/600/M4-82-020 and EPA/600/R-93/116 methods. This report may not be used to claim product endorsement by NVLAP or any other agency of the US Government. This report may not be reproduced except in full, without the written approval of the laboratory.



Asbestos Chain-of-Custody

2033 Heritage Park Drive, Oklahoma City, OK 73120-7502
 (800) 822-1650 (405) 755-7272 Fax: (405) 755-2058
 www.quantem.com

This Box for Lab Use Only
 Lab No. 203631
 Accept _____ Reject _____

Company Name: Baker Environmental Acct.#: B254 Project Name: COLLEGE OF THE RED WOODS
 Project Location: 7351 Tompkins Hill Road, Eureka, CA Project Number: 1151

LEGAL DOCUMENT Please Print Legibly

Sample Number	To Be Analyzed	Color / Description	Volume / Area (if applicable)	Comments
		OLD LIBRARY		
CR-1	-	JOINT (LOUPOUND)	Rm 100	
CR-2	-	" "	Rm 100	
CR-3	-	" "	HALL (WALL @ 103B)	
CR-4	-	" "	KITCHEN (WALL @ 103)	
CR-5	-	" "	HALL (WALL @ 103)	
CR-6	-	JOINT (LOUPOUND) / SKIN COAT	KITCHEN (WEST WALL)	
CR-7	-	" " / " "	KITCHEN (SOUTH WALL)	
CR-8	-	" " / " "	KITCHEN (EAST WALL)	
CR-9	-	" " / SKIN COAT	OFFICE 100A (W. WALL)	
CR-10	-	" " / SKIN COAT	" " A.C.S. WALL	
CR-11	-	Sheetrock	LOBBY RR (W. WALL)	
CR-12	-	Brown Ceramic Tile Adhesive	" " (W. WALL)	
CR-13	-	JOINT (LOUPOUND) / SKIN COAT	" " (E. WALL)	
CR-14	-	" " " "	" " W. WALL	
CR-15	-	NEW WORK		
CR-15	X	Drywall Texture	Rm 103 (N. WALL)	
CR-16	X	" "	Rm 103A (E. WALL)	
CR-17	X	" "	Rm 103B (N. WALL)	
CR-18	X	" " / JOINT (LOUPOUND)	Rm 100C (N. WALL)	

PLM

Bulk Analysis (EPA 600/R-93/116)

400 Point Count

1000 Point Count

Gravimetric Preparation Fee

Other

TEM

Air - AHERA

Air - NIOSH 7402

Bulk - Qualitative [Yes / No] - EPA 600/R-93/116

Bulk - Quantitative [weight %] - Chatfield

Dust - Qualitative [Yes / No]

Dust - Quantitative [fibers/sq.cm] - ASTM D5755

Drinking Water - EPA 100.0

Waste Water - EPA 600/4-83-043

Other

PCM

NIOSH 7400

Other

TURNAROUND TIME

Rush

Same Day

24 Hour

3-Day

5-Day

CONTACT INFORMATION

Name: TERRY BAKER

Phone: (530) 515-6370

Report Results VIA (CHOOSE ONE):

FAX:

QuanTEM WebSite

E-Mail:

Relinquished By: [Signature] Date/Time: 1300 1/26/12 VIA: air Received By: Morgan Lane Date/Time: 1/27/12 10:45
 Relinquished By: [Signature] Date/Time: 1/26/12 VIA: air Received By: TERRY BAKER Date/Time: 1/27/12

Saturday FedEx Shipping - CALL TO SCHEDULE
 Use this address for Saturday FedEx only: 4220 N. Santa Fe Ave., Oklahoma City, OK 73105-8517
 Mark Package 'HOLD FOR SATURDAY PICKUP'



Asbestos Chain-of-Custody

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 www.quantem.com

This Box for Lab Use Only
 Lab No. 203831
 Accept: _____ Reject: _____

Company Name: Baker Environmental

Acct.#: B254

Project Name: COLLEGE OF THE REDWOODS

Project Location: 7351 TOMPKINS HILL ROAD, EUREKA, CA

Project Number: 1151

Sample Number	To Be Analyzed	Color / Description	Volume / Area (if applicable)	Comments
		<u>NEW WORK</u>		
CR-14	✓	Drywall Texture	Rm 100 @ E. WALL (Rm 10)	
CR-20	✓	" "	Rm 100 @ E. WALL (WORK)	
CR-21	✓	Joint compound texture	Rm 101 @ partition wall	
CR-22	✓	" " / "	EAST CORRIDOR @ Rm 105	
CR-23	✓	" " / "	" " @ Rm 101	
CR-24	✓	" " / "	EAST CORRIDOR @ Rm 102	
CR-25	✓	" " / "	Rm 106 @ S. WALL	
CR-26	✓	" " / "	Rm 110 @ E. CORRIDOR	
CR-27	X	12'x24" white/grey Ceiling Tile	Rm 103A @ S. Ceiling	
CR-28	X	Joint compound	" " " " "	
CR-29	✓	2" x 24" white/grey Ceiling Tile	Rm 103C (w. Ceiling)	
CR-30	✓	Joint compound	" " " "	
CR-31	✓	" "	Rm 100A (S. Ceiling)	
CR-32	✓	2'x4' Ceiling Panels	Rm 102 (w. Ceiling)	
CR-33	✓	Joint compound	Rm 105A (S. WALL)	
CR-34	✓	Brown Carpet Adhesive	Rm 105 (E. FLOOR)	
CR-35	✓	Brown Carpet Adhesive	Rm 114 @ CORRIDOR	
CR-36	✓	Tan Carpet Adhesive	CORRIDOR (S) @ 114	
CR-37	✓	Brown Carpet Adhesive	CORRIDOR (N) @ 114	
CR-38	✓	Sheetrock	Rm 100 (S. WALL)	

LEGAL DOCUMENT
Please Print Legibly

PLM
Bulk Analysis (EPA 600/R-93/116)
400 Point Count
1000 Point Count
Gravimetric Preparation Fee
Other

TEM
Air - AHERA
Air - NIOSH 7402
Bulk - Qualitative [Yes / No] - EPA 600/R-93/116
Bulk - Quantitative (weight %) - Chatfield
Dust - Qualitative [Yes / No]
Dust - Quantitative (fibers/sq.cm) - ASTM D5755
Drinking Water - EPA 100.0
Waste Water - EPA 600/4-83-043
Other

PCM
NIOSH 7400
Other

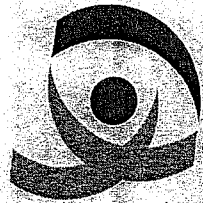
TURNAROUND TIME
Rush
Same Day
<input checked="" type="checkbox"/> 24 Hour
<input checked="" type="checkbox"/> 3-Day
<input checked="" type="checkbox"/> 5-Day

CONTACT INFORMATION
Name: <u>TERRY BAKER</u>
Phone: <u>(530) 515-6370</u>
Report Results VIA (CHOOSE ONE):
FAX: _____
<input checked="" type="checkbox"/> Quantem WebSite
E-Mail: _____

Relinquished By: <u>[Signature]</u>	Date/Time: <u>1/26/12</u>	VIA: <u>Ed</u>	Received By: <u>Morgan Lane</u>	Date/Time: <u>1/27/12 10:15</u>	Date Sampled: <u>1/25/12</u>	Sampled By: <u>TERRY BAKER</u>
Relinquished By: _____	Date/Time: _____	VIA: _____	Received By: _____	Date/Time: _____	Date Sampled: _____	Sampled By: _____

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APPENDIX B



COEH CENTER FOR OCCUPATIONAL
& ENVIRONMENTAL HEALTH

University of California Berkeley



This certifies that

Terry L Baker

has attended the eight-hour course

AHERA Refresher for Asbestos Inspectors and Management

Planners

and has completed the requisite training for asbestos accreditation under TSCA Title II

January 30, 2012

Course Date

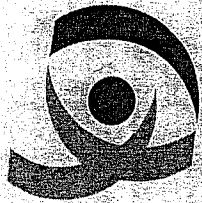
COEH Director

Continuing Education Director

Date of Exam: January 30, 2012
Expiration Date: January 30, 2013

Certificate Number: BIMP124-12
Cal/OSHA Approval Number: CA-002-06 / CA-002-08

Center for Occupational and Environmental Health Continuing Education Program
UC Berkeley Mailcode 5120, 2223 Fulton Street, 2nd Floor, Berkeley, CA 94720-5120 Ph: (510) 643-7277 Fax: (510) 643-7291



COEH CENTER FOR OCCUPATIONAL
& ENVIRONMENTAL HEALTH

University of California Berkeley



This certifies that

Terry L Baker

has attended the eight hour course

AHERA Refresher for Asbestos Contractors & Supervisors

and has completed the requisite training for asbestos accreditation under TSCA Title II

January 31, 2012

Course Date

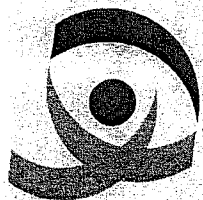
COEH Director

Continuing Education Director

Date of Exam: January 31, 2012
Expiration Date: January 31, 2013

Certificate Number: CS115-12
Cal/OSHA Approval Number: CA-002-04

Center for Occupational and Environmental Health Continuing Education Program
UC Berkeley Mailcode 5120, 2223 Fulton Street, 2nd Floor, Berkeley, CA 94720-5120 Ph: (510) 643-7277 Fax: (510) 643-7291



COEH CENTER FOR OCCUPATIONAL
& ENVIRONMENTAL HEALTH

University of California Berkeley



This certifies that

Terry L Baker

has attended the eight hour course

AHERA Refresher for Asbestos Abatement Project Designers

and has completed the requisite training for asbestos accreditation under TSCA Title II

February 1, 2012

Course Date

COEH Director

Continuing Education Director

Date of Exam:

Expiration Date: February 1, 2012
February 1, 2013

Certificate Number:

PD45-12
Cal/OSHA Approval Number: CA-002-10

Center for Occupational and Environmental Health Continuing Education Program

UC Berkeley Mailcode 5120, 2223 Fulton Street, 2nd Floor, Berkeley, CA 94720-5120 Ph: (510) 643-7277 Fax: (510) 643-7291

State of California
Division of Occupational Safety and Health
Certified Asbestos Consultant

Terry L Baker



Name

Certification No. 92-0322

Expires on 07/15/12

This certification was issued by the Division of Occupational Safety and Health as authorized by Sections 7180 et seq. of the Business and Professions Code.

**LIMITED ASBESTOS SURVEY
FOR THE COLLEGE OF THE REDWOODS
PHYSICAL EDUCATION,
APPLIED TECHNOLOGY/AUTOMOTIVE SHOP,
CREATIVE ARTS, PHYSICAL SCIENCE,
LIFE SCIENCE, OLD LIBRARY, AND
FORUM BUILDINGS
EUREKA, CALIFORNIA**

January 2004

Prepared for:
Mr. Tim Flanagan
Building & Grounds Supervisor
College of the Redwoods
7351 Tompkins Hill Rd.
Eureka, CA 95503-9300

Prepared by:
Winzler & Kelly Consulting Engineers
633 Third Street
Eureka, California 95501
(707) 443-8326

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APPENDICES

Appendix A Asbestos Laboratory Data and Chain-of-Custody Forms

Appendix B Sampling Location Maps

**LIMITED ASBESTOS SURVEY
FOR THE COLLEGE OF THE REDWOODS
PHYSICAL EDUCATION, APPLIED TECHNOLOGY/AUTOMOTIVE SHOP,
CREATIVE ARTS, PHYSICAL SCIENCE, LIFE SCIENCE
OLD LIBRARY, AND FORUM BUILDINGS
EUREKA, CALIFORNIA**

I. PURPOSE

Winzler & Kelly Consulting Engineers (Winzler & Kelly) conducted a limited asbestos survey in order to locate and quantify the presence of asbestos in select areas of the following College of the Redwoods structures: Physical Education Building (HV-4, HV-5, HV-8, Pool Filter Room Attic, and Equipment Room), Applied Technology/Automotive Shop Building (Community and Economic Room Heating Unit, Roof and Attics, and Automotive Garage Heat Shields), Creative Arts Building (HV-4, HV-5, Roof and Attics), Physical Science Building (Roof and Attics), Life Science Building (Roof and Attics), Old Library (Roof), and Forum (Theatre Backstage Heating Unit, Room FM 103, Roof and Attics). The survey was conducted only in the previously mentioned areas and not throughout the entire structures, therefore it is considered a limited asbestos survey.

II. EXECUTIVE SUMMARY

A limited asbestos survey was conducted in order to evaluate the presence of asbestos containing materials in the mechanical rooms, interior rooms, roofs and attics of the structures mentioned above.

Sampling on the roofs was conducted only on heating ventilation and air conditioning (HVAC) components. Roofing materials were not sampled.

Thermal system insulation (TSI) was sampled extensively throughout the structures as mentioned above. Predominantly, the TSI consists of spun glass "fiberglass", however several elbows were found with an insulating material containing asbestos. Therefore, any elbows, straights, or tees covered with a material not consisting of spun glass should be assumed asbestos-containing.

In addition, a white patching (referred to as a mastic by College of the Redwoods employees) was sampled and found to contain asbestos. The patching/mastic was located on ducting and was observed in several locations throughout the campus. A gray sealant applied to seams and ends of piping insulation systems was also noted throughout the campus. It too was sampled and found to contain asbestos. The patching/mastic and gray sealant should be treated as asbestos-containing in all locations.

Several samples of joint compound were obtained from the structures. Asbestos was detected in all joint compound samples. Any wall or ceiling consisting of a joint compound/sheetrock system should also be assumed asbestos-containing.

An asbestos-containing glue was found on "flexible duct connectors" off the air handlers in the mechanical room, HV-5, of the Physical Education Building. It was difficult to determine which flexible duct connectors contained the glue and which did not. In order to make the determination the connectors would have had to be destroyed, therefore the connectors should simply be presumed to contain the asbestos-containing glue.

Asbestos containing building materials (ACBM) and asbestos containing construction materials (ACCM), as listed below, were found in the following locations:

Physical Education Building

HV-5 Mechanical Room

- ✓ Yellow mastic on flexible black duct connector off the air handlers

HV-8 Mechanical Room

- ✓ Transite piping, 4" diam. (Not sampled – presumed asbestos-containing)

Applied Technology/Automotive Shop Building

Automotive Shop

- ✓ Covering on top of heat shields

Machine Shop

- ✓ Covering on top of heat shields

Applied Technology

- ✓ TSI, 3" diam. horizontal
- ✓ White patching on round ducting off heating unit
- ✓ White patching on ducting
- ✓ TSI, 4" diam. horizontal between green fiberglass and loose debris beneath
- ✓ TSI, 2.5" diam. horizontal

Creative Arts Building

HV-4 Mechanical Room

- ✓ Joint compound

HV-5 Mechanical Room

- ✓ Joint compound

Physical Science Building

- ✓ Seam sealant, gray on 3" and 5" diam. TSI
- ✓ Seam sealant, gray
- ✓ End sealant, gray on 3.5" diam. horizontal with metal jacket
- ✓ Seam sealant, gray on 3.5" diam. horizontal with metal jacket
- ✓ End sealant, gray on 4" diam. horizontal with metal jacket

Life Science Building

- ✓ End sealant, gray on 5" diam. horizontal
- ✓ Transite piping, 5" diam. (Not sampled – presumed asbestos-containing)

Old Library

- ✓ Elbow sealant, gray on 4" diam. elbow
- ✓ End sealant, gray on 3" diam. horizontal

Forum

- ✓ Joint Compound
- ✓ TSI, 3" diam. elbow
- ✓ End sealant, gray
- ✓ Loose debris (likely TSI)
- ✓ TSI, 2.5" diam. elbow
- ✓ TSI, 3.75" diam. elbow

See Tables 1A-1G for sample locations, asbestos containing materials and quantities.

III. ASBESTOS - SURVEY METHODOLOGY

Winzler & Kelly collected suspected asbestos-containing building materials at the above-mentioned locations on December 11, 16, 17 and 18, 2003 and January 7, 2004. After transport to the Winzler & Kelly office, the samples were submitted to RJ Lee Group, Inc., under chain-of-custody, for identification of asbestos content. Duplicate samples were submitted to Forensic Analytical, Inc., under chain of custody, for identification of asbestos content.

All findings, conclusions, and analytical data presented in this report are based on the information obtained from working knowledge of the structures and information (field inspection and sampling data) obtained by Winzler & Kelly's inspection during the survey.

Each suspect asbestos-containing material (ACM) identified was bulk sampled in general accordance with sampling guidelines established by the Environmental Protection Agency and 29 CFR 1926.1101. The following summarizes the sampling procedures utilized.

- ❖ The general location of each ACM was tabulated and marked on corresponding maps. For ease of determining sample locations, samples collected from the roof were deemed "exterior" whether they were taken inside an attic off the roof or simply on the roof itself. Samples obtained from mechanical rooms or inside of the respective structures were considered "interior".
- ❖ These materials were then categorized into homogeneous materials. A homogeneous material is defined as being uniform in texture, color, and date of application.
- ❖ A sampling scheme was developed based upon the location and quantity of the various homogeneous materials. Sample numbers were recorded on data sheets and each sample was

categorized as a miscellaneous material (MM), surfacing material (SM), or thermal system insulation (TSI). Further, the condition of the sample material was classified into AHERA damage categories in addition to assessing friability. The classifications are as follows:

Not damaged (ND)- no damage

Damaged (DG) - loss of cohesion or adhesion properties wherein <25% of the damage is localized, or <10% of the damage occurs in the overall area.

Significantly Damaged (SD)- loss of cohesion or adhesion properties wherein >25% of the damage is localized, or >10% of the damage occurs in the overall area.

Friable- can easily be crumbled when dry

Non-Friable- not easily crumbled when dry

Potential for Significant Damage - Applies to friable ACBM that is in a regularly occupied area, wherein a reasonable likelihood exists that the material or its covering will become significantly damaged, deteriorated, or delaminated due to factors including, but not limited to, accessibility, vibration, or air erosion.

- ❖ Bulk samples were collected by a Winzler & Kelly Cal /OSHA Certified Asbestos Consultant (CAC) and a Certified Site Surveillance Technician (CSST) using appropriate sampling tools and leak-tight containers.
- ❖ Decontamination of bulk sampling tools was used to prevent the spread of secondary contamination to subsequent bulk samples.
- ❖ Each bulk sample was individually numbered and recorded on a Bulk Sample Log and sent to RJ Lee Group, Inc.
- ❖ The samples were analyzed by Polarized Light Microscopy (PLM) following National Institute of Occupational Safety and Health (NIOSH) Method 9002. Tables 1A-1G outline the sample number, sample description, sample location, and the concentration of asbestos, if any and quantities of asbestos containing materials. Laboratory data and chain of custody forms are included in Appendix A. Asbestos sample locations can be found in Figures 1-10, Appendix B.

IV. **CONCLUSIONS AND RECOMMENDATIONS FOR ASBESTOS**

Asbestos containing building materials (ACBM), as listed below, were found in the following locations:

Physical Education Building

HV-5 Mechanical Room

- ✓ Yellow mastic on flexible black duct connector off the air handlers

HV-8 Mechanical Room

- ✓ Transite piping, 4" diam. (Not sampled – presumed asbestos-containing)

Applied Technology/Automotive Shop Building

Automotive Shop

- ✓ Covering on top of heat shields

Machine Shop

- ✓ Covering on top of heat shields

Applied Technology

- ✓ TSI, 3" diam. horizontal
- ✓ White patching on round ducting off heating unit
- ✓ White patching on ducting
- ✓ TSI, 4" diam. horizontal between green fiberglass and loose debris beneath
- ✓ TSI, 2.5" diam. horizontal

Creative Arts Building

HV-4 Mechanical Room

- ✓ Joint compound

HV-5 Mechanical Room

- ✓ Joint compound

Physical Science Building

- ✓ Seam sealant, gray on 3" and 5" diam. TSI
- ✓ Seam sealant, gray
- ✓ End sealant, gray on 3.5" diam. horizontal with metal jacket
- ✓ Seam sealant, gray on 3.5" diam. horizontal with metal jacket
- ✓ End sealant, gray on 4" diam. horizontal with metal jacket

Life Science Building

- ✓ End sealant, gray on 5" diam. horizontal
- ✓ Transite piping, 5" diam. (Not sampled – presumed asbestos-containing)

See Tables 1A-1G for sample locations, asbestos containing materials and quantities.

There are six regulations that either require or imply that an asbestos inspection must be done prior to work being done that will disturb (disrupt the matrix, crumble, pulverize or generate visible debris) ACM. The first is the NESHAP regulation which requires an inspection prior to a demolition or a renovation over the notification amounts. The second is the OSHA Asbestos Standard for the construction Industry which requires TSI, surfacing, and flooring to be treated as ACM if they are present in buildings constructed before 1981. The third stems from the Cal/OSHA IIPP requirements for hazard determination and inspection. The fourth is the California Asbestos Notification Act. The fifth is the Hazard Substances Removal Contract requirements in California, while the sixth is California Labor Code 6501.9 which indicates the building owner must determine if asbestos containing construction material (ACCM) is present prior to contracted work (>0.1% asbestos).

According to the National Emission Standard for Hazardous Air Pollutants (NESHAP), asbestos-containing building material (>1% asbestos) must be removed prior to demolition or renovation, if the material is considered to be a Regulated Asbestos-Containing Material (RACM), and which will be disturbed (made friable). RACM is generally defined as all friable asbestos containing material and non-friable material, which contain >1% asbestos, that will become friable during renovation. The North Coast Unified Air Quality District must be notified for all demolitions falling under this category and must be notified for any renovations that disturb RACM (friable or non friable that will become friable) above the notification amounts. The EPA notification amounts are 160 square feet and 260 linear feet. Typically the EPA is notified when dry removal or non-standard work practices are proposed.

The California Business and Professions Code, Section 7058.5 et. seq. requires asbestos abatement contractors to be certified with the Contractor State Licensing Board (in addition to being registered annually with CAL-OSHA). They must be certified if, at one job site, at one time, they ever engage in asbestos-related work involving 100 square feet or more of asbestos-containing construction materials (ACCM), which is defined as containing >0.1% asbestos. Practices for asbestos removal are regulated by CAL-OSHA. The Safe Drinking Water and Toxic Enforcement Act of 1986 (Prop 65), regulates chemicals in California that cause cancer or reproductive toxicity. The list of chemicals involved is published in Division 2 of Title 22, beginning with Section 12000. Asbestos is on this list. In addition, a Report of Use form must be filed with CAL-OSHA when a carcinogen is disturbed during renovation or demolition.

In addition to Prop 65 signage, building owners also have responsibilities to provide a safe work environment and must notify employees and contractors working inside a building known to contain asbestos. Two of these specific laws are the Asbestos Notification Act (California Health and Safety Code, Section 25915 et. seq.) and Proposition 65.

The Asbestos Notification Act applies to building owners, professional property managers of and tenants in non-residential buildings built before 1979 who know of asbestos containing construction materials (ACCM) (>0.1% asbestos) in their buildings. They must provide a specific written notification to employees and contractors in the building. Results of inspections, sampling, etc. must be shared, warning signs posted, and various other actions taken. This notification must be done each year. In addition, a supplemental notification must be done within 90 days of a change in the material or the receipt of additional sampling results. A copy of this notice must be given to every co-owner or tenant. Tenants who receive this notice are required to notify their employees.

The Asbestos Notification Act is a complicated regulation and is interpreted differently by many individuals. Winzler & Kelly strongly encourages College of the Redwoods to obtain legal advice before developing a response to this regulation. Once in place, this notice can serve as a regular reminder that the building owner is safely and effectively managing the ACCM in the building.

Under Section 25359.7 of the Health and Safety Code, owners of real estate property who know of or have reasonable cause to believe that ACM is present must disclose that prior to sale. Proposition 65 involves the public notification and warning required by the regulation. There is controversy on how to appropriately comply. In general, unless the ACM in a building is damaged and thus the owner believes it is contaminating air in the building, the owner does not have to specifically post the Proposition 65 warning sign (just for the asbestos). On the other hand, these warning signs should be displayed whenever and wherever asbestos work is being done. Many building owners routinely add the Proposition 65 warning as part of their compliance with the Asbestos Notification Act (See Sections 25249.5 & 25249.6 of the Health & Safety Code).

In addition to the above-mentioned regulation, the following regulations will most likely apply to any renovation proposal:

- ✓ Section 25914.1-3 Health and Safety Code
- ✓ Section 25359.7 Health and Safety Code
- ✓ Section 19827.5 Health and Safety Code
- ✓ 29 CFR 1910.1001
- ✓ 29 CFR 1926.1101
- ✓ 40 CFR Part 61, Subpart M (NESHAP)
- ✓ 8 CCR Article 4, 1529
- ✓ 8 CCR Article 110, 5208
- ✓ Labor Code Section 9000 et. seq.
- ✓ Labor Code section 6501.9
- ✓ 8 CCR Article 2.5. Section 341.6 et. seq.
- ✓ 8 CCR Article 2.5, Section 341.9
- ✓ Asbestos Hazard Emergency Response Act (AHERA)

Asbestos regulations are complicated and are subject to change. The intent of the above information is to advise you of some of the regulations that may affect you, but is not intended to be an all-encompassing discussion of asbestos regulations.

V. ABATEMENT STRATEGY

Once College of the Redwoods decides if the structures will have activities that might impact asbestos containing building materials, it is recommended to prepare specifications for the removal. As stated earlier in this report, asbestos only needs to be removed if it is going to be impacted during renovation or demolition activities, or repaired if it is damaged. Abatement specifications will include details of the abatement process including, but not limited to, scope of work, notifications, submittals, materials, equipment, asbestos material removal procedures, disposal procedures, air clearance, criteria and OSHA personal air monitoring requirements.

Tables 1A-1G are a summary of Asbestos Laboratory Data and Quantities.

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**Table 1A
Summary of Asbestos Data and Quantities**

Sample Number	Sample Description	Location	Asbestos % Type	Friable vs. Non-Friable	Quantity	Comments
WK/1664-1 Equipment Room	TSI – spun glass, 3” diam. horizontal	Equipment room, helmet and film storage room, northeast corner off radiator	None Detected	NA	NA	NA
WK/1664-2 HV-4	Duct fabric, white	HV-4 Mechanical room, south side	None Detected	NA	NA	NA
WK/1664-3 HV-4	TSI – spun glass on ducting under fabric	HV-4 Mechanical room, south side	None Detected	NA	NA	NA
WK/1664-4 HV-4	Duct fabric, white	HV-4 Mechanical room, south side	None Detected	NA	NA	NA
WK/1664-5 HV-4	TSI – spun glass on ducting under fabric	HV-4 Mechanical room, south side	None Detected	NA	NA	NA
WK/1664-6 HV-4	Duct fabric, white	HV-4 Mechanical room, south side	None Detected	NA	NA	NA
WK/1664-7 HV-4	TSI – spun glass on ducting under fabric	HV-4 Mechanical room, south side	None Detected	NA	NA	NA
WK/1664-8 HV-4	Flexible duct connector, black	HV-4 Mechanical room, south side	None Detected	NA	NA	NA
WK/1664-9 HV-4	Flexible duct connector, black	HV-4 Mechanical room, south side	None Detected	NA	NA	NA

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**Table 1A
Summary of Asbestos Data and Quantities**

Sample Number	Sample Description	Location	Asbestos % Type	Friable vs. Non-Friable	Quantity	Comments
WK/1664-10 HV-4	White fabric over TSI, 3" diam. horizontal	HV-4 Mechanical room, north side	None Detected	NA	NA	NA
WK/1664-11 HV-4	TSI – spun glass, 3" diam. horizontal	HV-4 Mechanical room, north side	None Detected	NA	NA	NA
WK/1664-12 HV-4	Fabric over TSI, 5" diam. horizontal	HV-4 Mechanical room, north side	None Detected	NA	NA	NA
WK/1664-13 HV-4	TSI – spun glass, 5" diam. horizontal	HV-4 Mechanical room, north side	None Detected	NA	NA	NA
WK/1664-14 HV-4	TSI – spun glass, 5" diam. elbow	HV-4 Mechanical room, north side	None Detected	NA	NA	NA
WK/1664-15 HV-4	Fabric over TSI, 4" diam. vertical	HV-4 Mechanical room, north side	None Detected	NA	NA	NA
WK/1664-16 HV-4	TSI – spun glass, 4" diam. vertical	HV-4 Mechanical room, north side	None Detected	NA	NA	NA
WK/1664-17 HV-5	Duct fabric, white	HV-5 Mechanical room, north side	None Detected	NA	NA	NA
WK/1664-17D HV-5	Duct fabric, white	HV-5 Mechanical room, north side	None Detected	NA	NA	NA

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**Table 1A
Summary of Asbestos Data and Quantities**

Sample Number	Sample Description	Location	Asbestos % Type	Friable vs. Non-Friable	Quantity	Comments
WK/1664-18 HV-5	TSI – spun glass on ducting under fabric	HV-5 Mechanical room, north side	None Detected	NA	NA	NA
WK/1664-18D HV-5	TSI – spun glass on ducting under fabric	HV-5 Mechanical room, north side	None Detected	NA	NA	NA
WK/1664-19 HV-5	Duct fabric, white	HV-5 Mechanical room, north side	None Detected	NA	NA	NA
WK/1664-19D HV-5	Duct fabric, white	HV-5 Mechanical room, north side	None Detected	NA	NA	NA
WK/1664-20 HV-5	TSI – spun glass on ducting under fabric	HV-5 Mechanical room, north side	None Detected	NA	NA	NA
WK/1664-20D HV-5	TSI – spun glass on ducting under fabric	HV-5 Mechanical room, north side	None Detected	NA	NA	NA
WK/1664-21 HV-5	Flexible duct connector, black	HV-5 Mechanical room, north side	None Detected	NA	NA	NA
WK/1664-21D HV-5 (Yellow Mastic)	Yellow mastic and flexible duct connector, black	HV-5 Mechanical room, north side	7% Chrysotile	Non-Friable	All mastic on flexible duct connectors	Not Damaged
WK/1664-21D HV-5 (Duct Connector)	Yellow mastic and flexible duct connector, black	HV-5 Mechanical room, north side	None Detected	NA	NA	NA

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**Table 1A
Summary of Asbestos Data and Quantities**

Sample Number	Sample Description	Location	Asbestos % Type	Friable vs. Non-Friable	Quantity	Comments
WK/1664-22 HV-5 (Yellow Mastic)	Yellow mastic and flexible duct connector, black	HV-5 Mechanical room, north side	40% Chrysotile	Non-Friable	All mastic on flexible duct connectors	Not Damaged
WK/1664-22 HV-5 (Duct Connector))	Yellow mastic and flexible duct connector, black	HV-5 Mechanical room, north side	None Detected	NA	NA	NA
WK/1664-22D HV-5 (Yellow Mastic)	Yellow mastic and flexible duct connector, black	HV-5 Mechanical room, north side	7% Chrysotile	Non-Friable	All mastic on flexible duct connectors	Not Damaged
WK/1664-22D HV-5 (Duct Connector)	Yellow mastic and flexible duct connector, black	HV-5 Mechanical room, north side	None Detected	NA	NA	NA
WK/1664-23 HV-5	White fabric over TSI, 3.5" diam. vertical	HV-5 Mechanical room, north side	None Detected	NA	NA	NA
WK/1664-24 HV-5	TSI – spun glass, 3.5" diam. vertical	HV-5 Mechanical room, north side	None Detected	NA	NA	NA
WK/1664-25 HV-5	White fabric over TSI, 5" diam. horizontal	HV-5 Mechanical room, south side	None Detected	NA	NA	NA
WK/1664-26 HV-5	TSI – spun glass, 5" diam. horizontal	HV-5 Mechanical room, south side	None Detected	NA	NA	NA

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**Table 1A
Summary of Asbestos Data and Quantities**

Sample Number	Sample Description	Location	Asbestos % Type	Friable vs. Non-Friable	Quantity	Comments
WK/1664-81 HV-8	Caulking, white	HV-8 Mechanical room, large ducting off HVAC unit, east side	None Detected	NA	NA	NA
WK/1664-82 HV-8	White cloth wrap and TSI – spun glass, 2.75” diam. vertical	HV-8 Mechanical room, piping off HVAC unit, south side	None Detected	NA	NA	NA
WK/1664-83 HV-8	Silver paper wrap and TSI – spun glass, 3” diam. vertical	HV-8 Mechanical room, piping off HVAC unit, south side	None Detected	NA	NA	NA
WK/1664-84 HV-8	White cloth wrap and TSI – spun glass, 3.75” diam. vertical	HV-8 Mechanical room, piping in northwest corner	None Detected	NA	NA	NA
WK/1664-85 HV-8	White cloth wrap and TSI – spun glass, 3.75” diam. vertical	HV-8 Mechanical room, piping in northwest corner	None Detected	NA	NA	NA
WK/1664-86 HV-8	White corrugated paper wrap and TSI – spun glass, 3” diam. vertical	HV-8 Mechanical room, piping in northwest corner	None Detected	NA	NA	NA

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**Table 1A
Summary of Asbestos Data and Quantities**

Sample Number	Sample Description	Location	Asbestos % Type	Friable vs. Non-Friable	Quantity	Comments
Presumed HV-8	Transite piping, 4" diam.	HV-8 Mechanical room, piping in northwest corner	Presumed Asbestos-Containing	Non-Friable	2 pipes totaling 8 LF, quantity doesn't include piping on roof	Not Damaged
WK/1664-87 Pool Filter Room Attic	TSI debris, white	Pool filter room attic, floor north of access hatch	None Detected	NA	NA	NA
WK/1664-88 Pool Filter Room Attic	Mudded joints between TSI, 3.5" diam. horizontal	Pool filter room attic, directly above access hatch	None Detected	NA	NA	NA
WK/1664-89 Pool Filter Room Attic	TSI, white 3.5" diam. horizontal	Pool filter room attic, south of access hatch	None Detected	NA	NA	NA
WK/1664-90 Pool Filter Room Attic	Mudded elbow on 3.5" diam. horizontal	Pool filter room attic, south of access hatch	None Detected	NA	NA	NA
WK/1664-91 Pool Filter Room Attic	TSI, white 3.5" diam. vertical	Pool filter room attic, south of access hatch	None Detected	NA	NA	NA

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**Table 1A
Summary of Asbestos Data and Quantities**

Sample Number	Sample Description	Location	Asbestos % Type	Friable vs. Non-Friable	Quantity	Comments
WK/1664-92 Pool Filter Room Attic	Silver paper wrap over TSI, 4" diam. vertical	Pool filter room attic, north of access hatch	None Detected	NA	NA	NA
WK/1664-93 Pool Filter Room Attic	TSI – spun glass, 4" diam. vertical	Pool filter room attic, north of access hatch	None Detected	NA	NA	NA
WK/1664-94 Pool Filter Room Attic	Duct taping, white	Pool filter room attic, central room, east of access door	None Detected	NA	NA	NA
WK/1664-95 Pool Filter Room Attic	TSI – spun glass, pink	Pool filter room attic, central room, on large ducting covered with visquine	None Detected	NA	NA	NA
WK/1664-96 Pool Filter Room Attic	Composite shingles laid over flooring	Pool filter room attic, central room, below round ducting, east side of room	None Detected	NA	NA	NA
WK/1664-97 Pool Filter Room Attic	Duct taping, white	Pool filter room attic, eastern room, on round ducting	None Detected	NA	NA	NA

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**Table 1A
Summary of Asbestos Data and Quantities**

Sample Number	Sample Description	Location	Asbestos % Type	Friable vs. Non-Friable	Quantity	Comments
WK/1664-98 Pool Filter Room Attic	Silver paper wrap over TSI, 4" diam. horizontal	Pool filter room attic, central room, north side	None Detected	NA	NA	NA
WK/1664-99 Pool Filter Room Attic	TSI -- spun glass, 4" diam. horizontal	Pool filter room attic, central room, north side	None Detected	NA	NA	NA
WK/1664-100 Pool Filter Room Attic	Composite shingles laid over flooring	Pool filter room attic, central room, just east of access door	None Detected	NA	NA	NA

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**Table 1B
Summary of Asbestos Data and Quantities**

Sample Number	Sample Description	Location	Asbestos % Type	Friable vs. Non-Friable	Quantity	Comments
WK/1664-27 Automotive Shop, Interior	Covering on top of heat shield	Automotive shop garage #129, south side	55% Chrysotile	Friable	660 SF Quantity includes Machine Shop	Not Damaged
WK/1664-28 Automotive Shop, Interior	Covering on top of heat shield	Automotive shop garage #129, south side	55% Chrysotile	Friable	Incl. in Sample 27	Not Damaged
WK/1664-126 Applied Technology Interior	TSI, 3" diam. horizontal	Attic space in kitchen area off community and economic room	15% Chrysotile 25% Amosite	Friable	1 LF	Not Damaged
WK/1664-127 Applied Technology Interior	White patching on round ducting off HVAC unit	Attic space in small office off community and economic room	10% Chrysotile	Non-Friable	300-1000 SF Quantity approx. as material present in multiple buildings	Not Damaged
WK/1664-128 Applied Technology Exterior	Silver coating	Exterior, roof, east of access hatch on 5" diam. horizontal	None Detected	NA	NA	NA

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**Table 1B
Summary of Asbestos Data and Quantities**

Sample Number	Sample Description	Location	Asbestos % Type	Friable vs. Non-Friable	Quantity	Comments
WK/1664-129 Applied Technology Exterior	Silver coating with fibrous backing	Exterior, roof, east of access hatch on 1" diam. horizontal	None Detected	NA	NA	NA
WK/1664-130 Applied Technology Exterior	Silver coating	Exterior, roof, east of access hatch on 3.5" diam. horizontal	None Detected	NA	NA	NA
WK/1664-131 Applied Technology Exterior	Loose debris, white	Exterior, roof, west wing, northeast attic	None Detected	NA	NA	NA
WK/1664-132 Applied Technology Exterior	White patching on ducting	Exterior, roof, west wing, northeast attic	10% Chrysotile	Non-Friable	Incl. in Sample 127	Not Damaged
WK/1664-133 Applied Technology Exterior	Joint taping, white-painted green	Exterior, roof, central portion, north side	None Detected	NA	NA	NA
WK/1664-134 Applied Technology Exterior	Mastic, black	Exterior, roof, east wing, north side on 1" diam. horizontal	None Detected	NA	NA	NA
WK/1664-135 Applied Technology Exterior	TSI, 4" diam. horizontal and loose debris beneath	Exterior, roof, east wing, northeast attic	10% Chrysotile	Friable	8 LF	Damaged

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**Table 1B
Summary of Asbestos Data and Quantities**

Sample Number	Sample Description	Location	Asbestos % Type	Friable vs. Non-Friable	Quantity	Comments
WK/1664-136 Applied Technology Exterior	TSI, 2.5" diam. horizontal	Exterior, roof, west wing, attic on east side	10% Chrysotile 10% Crocidolite	Friable	1 LF	Damaged

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**Table 1C
Summary of Asbestos Data and Quantities**

Sample Number	Sample Description	Location	Asbestos % Type	Friable vs. Non-Friable	Quantity	Comments
WK/1664-29 HV-4 (Joint Compound)	Joint compound/ sheetrock	HV-4 Mechanical room wall, southeast corner	<1% Chrysotile	Friable	All J.C./SR wall systems	Not Damaged
WK/1664-29 HV-4 (Sheetrock)	Joint compound/ sheetrock	HV-4 Mechanical room wall, southeast corner	None Detected	NA	NA	NA
WK/1664-29 HV-4 (Composite)	Joint compound/ sheetrock	HV-4 Mechanical room wall, southeast corner	<1% Chrysotile	Friable	All J.C./SR wall systems	Not Damaged
WK/1664-30 HV-4 (Joint Compound)	Joint compound/ sheetrock	HV-4 Mechanical room wall, southwest area	<1% Chrysotile	Friable	All J.C./SR wall systems	Not Damaged
WK/1664-30 HV-4 (Sheetrock)	Joint compound/ sheetrock	HV-4 Mechanical room wall, southwest area	None Detected	NA	NA	NA
WK/1664-30 HV-4 (Composite)	Joint compound/ sheetrock	HV-4 Mechanical room wall, southwest area	<1% Chrysotile	Friable	All J.C./SR wall systems	Not Damaged
WK/1664-31 HV-4	Duct taping, white	HV-4, large ducting, west side	None Detected	NA	NA	NA
WK/1664-32 HV-4	Duct taping, white	HV-4 Mechanical room, large ducting, west side	None Detected	NA	NA	NA

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**Table 1C
Summary of Asbestos Data and Quantities**

Sample Number	Sample Description	Location	Asbestos % Type	Friable vs. Non-Friable	Quantity	Comments
WK/1664-33 HV-4	Duct taping, white	HV-4 Mechanical room, large ducting, east side	None Detected	NA	NA	NA
WK/1664-34 HV-4	Duct taping, white	HV-4 Mechanical room, large ducting, west side	None Detected	NA	NA	NA
WK/1664-35 HV-4	Flexible duct connector, white	HV-4 Mechanical room, large ducting, north side	None Detected	NA	NA	NA
WK/1664-36 HV-4	Cloth wrap over TSI, 2.5" diam. horizontal	HV-4 Mechanical room, large ducting, south side	None Detected	NA	NA	NA
WK/1664-37 HV-4	Paper wrap and TSI – spun glass, 2.5" diam. horizontal	HV-4 Mechanical room, large ducting, south side	None Detected	NA	NA	NA
WK/1664-38 HV-4	Paper wrap on TSI, 2.5" diam. horizontal	HV-4 Mechanical room, large ducting, south side	None Detected	NA	NA	NA
WK/1664-39 HV-5 (Joint Compound)	Joint compound/ sheetrock	HV-5 Mechanical room wall, northwest side	2% Chrysotile	Friable	All J.C./SR wall systems	Not Damaged
WK/1664-39 HV-5 (Sheetrock)	Joint compound/ sheetrock	HV-5 Mechanical room wall, northwest side	None Detected	NA	NA	NA

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**Table 1C
Summary of Asbestos Data and Quantities**

Sample Number	Sample Description	Location	Asbestos % Type	Friable vs. Non-Friable	Quantity	Comments
WK/1664-39 HV-5 (Composite)	Joint compound/ sheetrock	HV-5 Mechanical room wall, northwest side	<1% Chrysotile	Friable	All J.C./SR wall systems	Not Damaged
WK/1664-40 HV-5 (Joint Compound)	Joint compound/ sheetrock	HV-5 Mechanical room wall, northeast side	<1% Chrysotile	Friable	All J.C./SR wall systems	Not Damaged
WK/1664-40 HV-5 (Sheetrock)	Joint compound/ sheetrock	HV-5 Mechanical room wall, northeast side	None Detected	NA	NA	NA
WK/1664-40 HV-5 (Composite)	Joint compound/ sheetrock	HV-5 Mechanical room wall, northeast side	<1% Chrysotile	Friable	All J.C./SR wall systems	Not Damaged
WK/1664-41 HV-5	Duct taping, white	HV-5 Mechanical room, large ducting, north side	None Detected	NA	NA	NA
WK/1664-42 HV-5	Duct taping, white	HV-5 Mechanical room, large ducting, north side	None Detected	NA	NA	NA
WK/1664-43 HV-5	Duct taping, white	HV-5 Mechanical room, large ducting, north side	None Detected	NA	NA	NA
WK/1664-44 HV-5	Flexible duct connector, white	HV-5 Mechanical room, large ducting, south side	None Detected	NA	NA	NA

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**Table 1C
Summary of Asbestos Data and Quantities**

Sample Number	Sample Description	Location	Asbestos % Type	Friable vs. Non-Friable	Quantity	Comments
WK/1664-45 HV-5	Paper wrap over TSI, 2.5" diam. vertical	HV-5 Mechanical room, north side	None Detected	NA	NA	NA
WK/1664-46 HV-5	TSI – spun glass, 2.5" diam. vertical	HV-5 Mechanical room, north side	None Detected	NA	NA	NA
WK/1664-47 HV-5	Cloth wrap over TSI, 2.5" diam. horizontal	HV-5 Mechanical room, north side	None Detected	NA	NA	NA
WK/1664-48 HV-5	Paper wrap over TSI, 2.5" diam. vertical	HV-5 Mechanical room, north side	None Detected	NA	NA	NA
WK/1664-49 HV-5	TSI – spun glass, 2.5" diam. vertical with metal jacket	HV-5 Mechanical room, north side	None Detected	NA	NA	NA
WK/1664-50 Exterior	TSI – neoprene material, 2.75" diam. vertical	Exterior, roof, northwest wing	None Detected	NA	NA	NA
WK/1664-51 Exterior	Tar/cloth wrap on pipe connecting to HVAC unit	Exterior, roof, northwest wing	None Detected	NA	NA	NA
WK/1664-52 Exterior	Tar/cloth wrap on pipe connecting to HVAC unit	Exterior, roof, northwest wing	None Detected	NA	NA	NA

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**Table 1C
Summary of Asbestos Data and Quantities**

Sample Number	Sample Description	Location	Asbestos % Type	Friable vs. Non-Friable	Quantity	Comments
WK/1664-53 Exterior	TSI – spun glass, 3” diam. vertical with metal jacket	Exterior, roof, northwest wing	None Detected	NA	NA	NA
WK/1664-54 Exterior	Duct taping, white – painted green	Exterior, roof, northwest wing	None Detected	NA	NA	NA
WK/1664-55 Exterior	Duct taping, white – painted green	Exterior, roof, northwest wing	None Detected	NA	NA	NA
WK/1664-56 Exterior	Duct taping, white – painted green	Exterior, roof, northwest wing	None Detected	NA	NA	NA
WK/1664-57 Exterior	Duct taping, white – painted green	Exterior, roof, northwest wing	None Detected	NA	NA	NA
WK/1664-58 Exterior	Silver paper wrap and spun glass on ducting	Exterior, attic off roof, northwest wing	None Detected	NA	NA	NA
WK/1664-59 Exterior	Silver paper wrap and spun glass on ducting	Exterior, attic off roof, northwest wing	None Detected	NA	NA	NA
WK/1664-60 Exterior	Silver paper wrap over 2.5” diam. horizontal	Exterior, attic off roof, northwest wing	None Detected	NA	NA	NA

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**Table 1C
Summary of Asbestos Data and Quantities**

Sample Number	Sample Description	Location	Asbestos % Type	Friable vs. Non-Friable	Quantity	Comments
WK/1664-61 Exterior	TSI – spun glass, 2.5” diam. horizontal	Exterior, attic off roof, northwest wing	None Detected	NA	NA	NA
WK/1664-62 Exterior	Silver paper wrap and spun glass on ducting	Exterior, roof attic off corridor outside HV-5	None Detected	NA	NA	NA
WK/1664-63 Exterior	Silver paper wrap and spun glass on ducting	Exterior, roof attic off corridor outside HV-5	None Detected	NA	NA	NA
WK/1664-64 Exterior	Joint wrap paper, silver on 4” diam. horizontal	Exterior, roof attic off corridor outside HV-5	None Detected	NA	NA	NA
WK/1664-65 Exterior	TSI – spun glass, 4” diam. horizontal	Exterior, roof attic off corridor outside HV-5	None Detected	NA	NA	NA
WK/1664-66 Exterior	Joint wrap paper, silver on 5” diam. horizontal	Exterior, roof attic off corridor outside HV-5	None Detected	NA	NA	NA

**LIMITED ASBESTOS SURVEY
FOR THE COLLEGE OF THE REDWOODS
PHYSICAL SCIENCE BUILDING
EUREKA, CALIFORNIA**

**Table 1D
Summary of Asbestos Data and Quantities**

Sample Number	Sample Description	Location	Asbestos % Type	Friable vs. Non-Friable	Quantity	Comments
WK/1664-67 Exterior	Silver paper wrap and TSI – spun glass, 3” diam. horizontal	Exterior, roof, northwest wing	None Detected	NA	NA	NA
WK/1664-68 Exterior	TSI – spun glass 3.5” diam. horizontal	Exterior, roof, northwest wing	None Detected	NA	NA	NA
WK/1664-69 Exterior	Silver paper wrap on TSI – spun glass, 5” diam. horizontal	Exterior, roof, northwest wing	None Detected	NA	NA	NA
WK/1664-70 Exterior	Seam sealant, gray on 3” and 5” diam. TSI	Exterior, roof, northwest wing	1% Chrysotile	Non-Friable	All gray sealant	Damaged
WK/1664-71 Exterior	Paint, lt. gray on ducting	Exterior, roof, northwest wing	None Detected	NA	NA	NA
WK/1664-72 Exterior	Seam sealant, gray	Exterior, roof, southern wing	1% Chrysotile	Non-Friable	All gray sealant	Not Damaged
WK/1664-73 Exterior	Silver paper wrap and TSI – spun glass, 3” diam. horizontal	Exterior, roof, southern wing	None Detected	NA	NA	NA
WK/1664-74 Exterior	Paint, lt. gray on ducting	Exterior, roof, northeast wing	None Detected	NA	NA	NA

**LIMITED ASBESTOS SURVEY
FOR THE COLLEGE OF THE REDWOODS
PHYSICAL SCIENCE BUILDING
EUREKA, CALIFORNIA**

**Table 1D
Summary of Asbestos Data and Quantities**

Sample Number	Sample Description	Location	Asbestos % Type	Friable vs. Non-Friable	Quantity	Comments
WK/1664-75 Exterior	Silver paper wrap and TSI – spun glass, 3.5” diam. horizontal with plastic jacket	Exterior, roof, northeast wing	None Detected	NA	NA	NA
WK/1664-76 Exterior	End sealant, gray on 3.5” diam. horizontal with metal jacket	Exterior, roof, northeast wing	1% Chrysotile	Non-Friable	All gray sealant	Not Damaged
WK/1664-77 Exterior	Seam sealant, gray on 3.5” diam. horizontal with metal jacket	Exterior, roof, northeast wing	2% Chrysotile	Non-Friable	All gray sealant	Not Damaged
WK/1664-78 Exterior	Silver paper wrap and TSI – spun glass, 4” diam. horizontal with metal jacket	Exterior roof, central elevated section	None Detected	NA	NA	NA
WK/1664-79 Exterior	End sealant, gray on 4” diam. horizontal with metal jacket	Exterior roof, central elevated section	1% Chrysotile	Non-Friable	All gray sealant	Not Damaged

**LIMITED ASBESTOS SURVEY
FOR THE COLLEGE OF THE REDWOODS
LIFE SCIENCE BUILDING
EUREKA, CALIFORNIA**

**Table 1E
Summary of Asbestos Data and Quantities**

Sample Number	Sample Description	Location	Asbestos % Type	Friable vs. Non-Friable	Quantity	Comments
WK/1664-80 Exterior	End sealant, gray on 5" diam. horizontal	Exterior, roof, north side	2% Chrysotile	Non-Friable	All gray sealant	Not Damaged
Presumed Exterior	Transite piping, 5" diam.	Exterior, roof attic on east side	Presumed Asbestos-Containing	Non-Friable	2 pipes totaling 30 LF	Not Damaged

**LIMITED ASBESTOS SURVEY
FOR THE COLLEGE OF THE REDWOODS
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**Table 1F
Summary of Asbestos Data and Quantities**

Sample Number	Sample Description	Location	Asbestos % Type	Friable vs. Non-Friable	Quantity	Comments
WK/1664-101 Exterior	Silver paper wrap and TSI – spun glass, 5” diam. horizontal with metal jacket	Exterior, roof, west side	None Detected	NA	NA	NA
WK/1664-102 Exterior	Silver paper wrap and TSI – spun glass, 5” diam. horizontal with metal jacket	Exterior, roof, north side	None Detected	NA	NA	NA
WK/1664-103 Exterior	Elbow sealant, gray on 4” diam. elbow	Exterior, roof, north side	<1% Chrysotile	Non-Friable	All gray sealant	Not Damaged
WK/1664-104 Exterior	Flexible duct connector, painted white	Exterior, roof, north side	None Detected	NA	NA	NA
WK/1664-105 Exterior	End sealant, gray on 3” diam. horizontal	Exterior, roof, east side	<1% Chrysotile	Non-Friable	All gray sealant	Not Damaged

**LIMITED ASBESTOS SURVEY
FOR THE COLLEGE OF THE REDWOODS
FORUM
EUREKA, CALIFORNIA**

**Table 1G
Summary of Asbestos Data and Quantities**

Sample Number	Sample Description	Location	Asbestos % Type	Friable vs. Non-Friable	Quantity	Comments
WK/1664-106 Interior (Joint Compound)	Joint compound/ sheetrock	Interior, Forum, triangular room at southeast corner FM 103	2% Chrysotile	Non-Friable	All J.C./SR wall systems	Not Damaged
WK/1664-106 Interior (Sheetrock)	Joint compound/ sheetrock	Interior, Forum, triangular room at southeast corner FM 103	None Detected	NA	NA	NA
WK/1664-106 Interior (Composite)	Joint compound/ sheetrock	Interior, Forum, triangular room at southeast corner FM 103	<1% Chrysotile	Non-Friable	All J.C./SR wall systems	Not Damaged
WK/1664-107 Interior (Joint Compound)	Joint compound/ sheetrock	Interior, Forum, triangular room at southeast corner FM 103	<1% Chrysotile	Non-Friable	All J.C./SR wall systems	Not Damaged
WK/1664-107 Interior (Sheetrock)	Joint compound/ sheetrock	Interior, Forum, triangular room at southeast corner FM 103	None Detected	NA	NA	NA
WK/1664-107 Interior (Composite)	Joint compound/ sheetrock	Interior, Forum, triangular room at southeast corner FM 103	<1% Chrysotile	Non-Friable	All J.C./SR wall systems	Not Damaged

**LIMITED ASBESTOS SURVEY
FOR THE COLLEGE OF THE REDWOODS
FORUM
EUREKA, CALIFORNIA**

**Table 1G
Summary of Asbestos Data and Quantities**

Sample Number	Sample Description	Location	Asbestos % Type	Friable vs. Non-Friable	Quantity	Comments
WK/1664-108 Interior (Joint Compound)	Joint compound/ sheetrock	Interior, Forum, triangular room at southeast corner FM 103	<1% Chrysotile	Non-Friable	All J.C./SR wall systems	Not Damaged
WK/1664-108 Interior (Sheetrock)	Joint compound/ sheetrock	Interior, Forum, triangular room at southeast corner FM 103	None Detected	NA	NA	NA
WK/1664-108 Interior (Composite)	Joint compound/ sheetrock	Interior, Forum, triangular room at southeast corner FM 103	<1% Chrysotile	Non-Friable	All J.C./SR wall systems	Not Damaged
WK/1664-109 Interior	White fabric wrap and TSI, 3" diam. elbow	Interior, Forum, theatre backstage, piping off radiator	2% Chrysotile	Friable	8 elbows	Not Damaged
WK/1664-110 Interior	White fabric wrap and TSI – spun glass, 3" diam. horizontal	Interior, Forum, theatre backstage, piping off radiator	None Detected	NA	NA	NA
WK/1664-111 Interior	White fabric wrap and TSI, 3" diam. elbow	Interior, Forum, theatre backstage, piping off radiator	2% Chrysotile	Friable	Incl. in Sample 109	Damaged

**LIMITED ASBESTOS SURVEY
FOR THE COLLEGE OF THE REDWOODS
FORUM
EUREKA, CALIFORNIA**

**Table 1G
Summary of Asbestos Data and Quantities**

Sample Number	Sample Description	Location	Asbestos % Type	Friable vs. Non-Friable	Quantity	Comments
WK/1664-112 Interior	White fabric wrap and TSI – spun glass, 3” diam. vertical	Interior, Forum, theatre backstage, piping off radiator	None Detected	NA	NA	NA
WK/1664-113 Exterior	Caulking, black, on ducting	Exterior, easternmost roof, west side	None Detected	NA	NA	NA
WK/1664-114 Exterior	Caulking, black, on ducting	Exterior, easternmost roof, east side	None Detected	NA	NA	NA
WK/1664-115 Exterior	Tan fabric and TSI – spun glass, 3” diam. horizontal	Exterior, easternmost roof, attic northeast corner	None Detected	NA	NA	NA
WK/1664-116 Exterior	Duct patching, white	Exterior, easternmost roof, attic under elevated roof	None Detected	NA	NA	NA
WK/1664-117 Exterior	Flexible duct connector, gray	Exterior, westernmost roof, east side	None Detected	NA	NA	NA
WK/1664-118 Exterior	End sealant, gray	Exterior, westernmost roof, above access hatch	2% Chrysotile	Non-Friable	All gray sealant	Not Damaged

**LIMITED ASBESTOS SURVEY
FOR THE COLLEGE OF THE REDWOODS
FORUM
EUREKA, CALIFORNIA**

**Table 1G
Summary of Asbestos Data and Quantities**

Sample Number	Sample Description	Location	Asbestos % Type	Friable vs. Non-Friable	Quantity	Comments
WK/1664-119 Exterior	Silver paper wrap and TSI – spun glass, 3.25” diam. horizontal with metal jacket	Exterior, westernmost roof, above access hatch	None Detected	NA	NA	NA
WK/1664-120 Exterior	Flexible duct connector, gray	Exterior, westernmost roof, west of access hatch	None Detected	NA	NA	NA
WK/1664-121 Exterior	Loose Debris	Exterior, westernmost roof, attic west of access hatch on north side	<1% Chrysotile <1% Amosite	Friable	10 SF	Significantly Damaged
WK/1664-122 Exterior	Silver paper wrap and TSI – spun glass, 5” diam. horizontal with metal jacket	Exterior, westernmost roof, south side	None Detected	NA	NA	NA
WK/1664-123 Exterior	Loose debris	Exterior, westernmost roof, attic on south side	<1% Chrysotile	Friable	5 SF	Significantly Damaged

**LIMITED ASBESTOS SURVEY
FOR THE COLLEGE OF THE REDWOODS
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EUREKA, CALIFORNIA**

**Table 1G
Summary of Asbestos Data and Quantities**

Sample Number	Sample Description	Location	Asbestos % Type	Friable vs. Non-Friable	Quantity	Comments
WK/1664-124 Exterior	White fabric cover and TSI, 2.5" diam. elbow	Exterior, westernmost roof, attic on south side	2% Chrysotile	Friable	10 LF Quantity Incl. multiple elbows on 2.5" & 3.75" diam. pipes	Not Damaged
WK/1664-125 Exterior	White fabric cover and TSI, 3.75" diam. elbow	Exterior, westernmost roof, attic on south side	2% Chrysotile	Friable	Incl. in Sample 124	Not Damaged

APPENDIX A
Asbestos Laboratory Data and
Chain-of-Custody Forms

Test Report - Winzler & Kelly
Polarized Light Microscopy Analysis Results
Project AOC312336

Sample Number /

Sample Appearance	Client Sample Number	-----Asbestos-----							-----Nonasbestos-----				Run Date	Analyst	
		Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite	Cellulose	Mineral Wool	Fibrous Glass	Synthetic Fibers	Other Fibers			NonFibrous Material
0059207CPL Yellow TSI	WK/1654-1	-	-	-	-	-	-	<1 %	20 %	60 %	-	-	20 %	12/24/03	SSY
													NFM: Qtz, Tar, Carb, Binder, Opaq, Misc. Part.		
													Non Homogeneous		

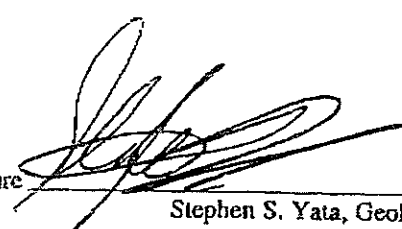
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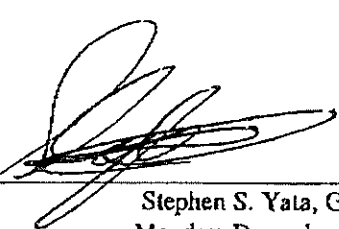
Test Report - Winzler & Kelly
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Project AOC312338

Sample Number / Sample Appearance	Client Sample Number	-----Asbestos-----							-----Nonasbestos-----					Run Date
		Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite	Cellulose	Mineral Wool	Fibrous Glass	Synthetic Fibers	Other Fibers	NonFibrous Material	
0059208CPL White duct fabric	WK/1664-2	-	-	-	-	-	-	90 %	-	<1 %	-	-	10 %	12/24/03
NFM: Qtz, Carb, Binder, Opaq, Misc. Part.													SSY	
													Homogeneous	
0059209CPL Yellow TSI	WK/1664-3	-	-	-	-	-	-	<1 %	30 %	50 %	-	-	20 %	12/24/03
NFM: Qtz, Carb, Binder, Opaq, Misc. Part.													SSY	
													Non Homogeneous	
0059210CPL White duct fabric	WK/1664-4	-	-	-	-	-	-	90 %	-	-	-	-	10 %	12/24/03
NFM: Qtz, Carb, Binder, Opaq, Misc. Part.													SSY	
													Homogeneous	
0059211CPL Yellow TSI	WK/1664-5	-	-	-	-	-	-	<1 %	30 %	50 %	-	-	20 %	12/24/03
NFM: Qtz, Carb, Binder, Opaq, Misc. Part.													SSY	
													Non Homogeneous	
0059212CPL Yellow TSI ; wht. duct insulation	WK/1664-6	-	-	-	-	-	-	70 %	5 %	5 %	-	-	20 %	12/24/03
NFM: Qtz, Carb, Binder, Opaq, Misc. Part.													SSY	
													Non Homogeneous	
0059213CPL Yellow TSI	WK/1664-7	-	-	-	-	-	-	-	10 %	70 %	-	-	20 %	12/24/03
NFM: Qtz, Carb, Binder, Opaq, Misc. Part.													SSY	
													Non Homogeneous	

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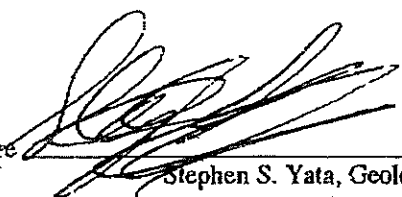
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Sample Number / Sample Appearance	Client Sample Number	-----Asbestos-----							-----Nonasbestos-----				Run Date	Analyst	
		Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite	Cellulose	Wool	Glass	Fibrous Fibers	Synthetic Fibers			Other NonFibrous Material
0059214CPL Black duct connector	WK/1664-8	-	-	-	-	-	-	-	-	10 %	-	-	90 %	12/24/03	SSY
													NFM: Qtz, Carb, Binder, Opaq, Misc. Part.	Homogeneous	
0059215CPL Black duct connector	WK/1664-9	-	-	-	-	-	-	-	-	12 %	-	-	88 %	12/24/03	SSY
													NFM: Qtz, Carb, Binder, Opaq, Misc. Part.	Homogeneous	
0059216CPL White fabric	WK/1664-10	-	-	-	-	-	-	80 %	-	-	-	-	20 %	12/24/03	SSY
													NFM: Qtz, Carb, Binder, Opaq, Misc. Part.	Homogeneous	
0059217CPL Yellow TSI	WK/1664-11	-	-	-	-	-	-	<1 %	30 %	50 %	-	-	20 %	12/24/03	SSY
													NFM: Qtz, Carb, Binder, Opaq, Misc. Part.	Homogeneous	
0059218CPL Tan fabric	WK/1664-12	-	-	-	-	-	-	90 %	-	-	-	-	10 %	12/24/03	SSY
													NFM: Qtz, Carb, Binder, Opaq, Misc. Part.	Homogeneous	
0059219CPL Yellow TSI	WK/1664-13	-	-	-	-	-	-	<1 %	30 %	50 %	-	-	20 %	12/24/03	SSY
													NFM: Qtz, Carb, Binder, Opaq, Misc. Part.	Homogeneous	

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Test Report - Winzler & Kelly
Polarized Light Microscopy Analysis Results
Project AOC312338

Sample Number / Sample Appearance	Client Sample Number	-----Asbestos-----							-----Nonasbestos-----					Run Date
		Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite	Cellulose	Mineral Wool	Fibrous Glass	Synthetic Fibers	Other Fibers	NonFibrous Material	
0059220CPL Yellow TSI	WK/1664-14	-	-	-	-	-	-	<1 %	30 %	50 %	-	-	20 %	12/24/03
NFM: Qtz, Carb, Binder, Opaq, Misc. Part.													SSY	
													Homogeneous	
0059221CPL Tan fabric	WK/1664-15	-	-	-	-	-	-	85 %	-	-	-	-	15 %	12/24/03
NFM: Qtz, Carb, Binder, Opaq, Other, Misc. Part.													SSY	
													Homogeneous	
0059222CPL Yellow TSI	16	-	-	-	-	-	-	<1 %	30 %	50 %	-	-	20 %	12/24/03
NFM: Qtz, Carb, Binder, Opaq, Misc. Part.													SSY	
													Non Homogeneous	

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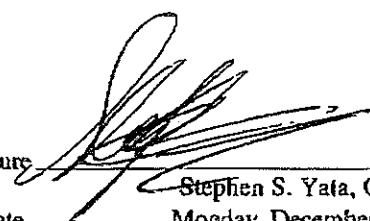
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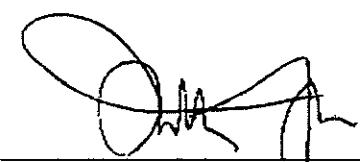
Polarized Light Microcopy Analysis Results

Project AOC312339

Sample Number / Sample Appearance	Client Sample Number	Asbestos							Nonasbestos				Run Date	Analyst	
		Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite	Cellulose	Mineral Wool	Fibrous Glass	Synthetic Fibers	Other Fibers			NonFibrous Material
0059223CPL Yellow insulation	WK/1664-17	-	-	-	-	-	-	-	-	100 %	-	-	-	12/29/03	ES
															Homogeneous
0059224CPL Duct tape	WK/1664-18	-	-	-	-	-	-	-	-	50 %	-	-	50 %	12/29/03	ES
															Homogeneous
0059225CPL Duct tape	WK/1664-19	-	-	-	-	-	-	95 %	-	5 %	-	-	-	12/29/03	ES
															Homogeneous
0059226CPL Fabric tape	WK/1664-20	-	-	-	-	-	-	60 %	-	20 %	-	-	20 %	12/29/03	ES
															Homogeneous
0059227CPL Yellow insulation	WK/1664-21	-	-	-	-	-	-	-	-	100 %	-	-	-	12/29/03	ES
															Homogeneous
0059228CPL Duct tape	WK/1664-22	-	-	-	-	-	-	50 %	-	-	-	-	50 %	12/29/03	ES
															Homogeneous

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Nonette Patron, Geologist

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Wednesday, January 7, 2004

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Test Report - Winzler & Kelly

Polarized Light Microcopy Analysis Results

Project AOC312339

Sample Number / Sample Appearance	Client Sample Number	-----Asbestos-----							-----Nonasbestos-----				Run Date	Analyst	
		Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite	Cellulose	Mineral Wool	Fibrous Glass	Synthetic Fibers	Other Fibers			NonFibrous Material
0059228CPL-1 Yellow glue	WK/1664-22	40 %	-	-	-	-	-	-	-	-	-	-	60 %	12/29/03	ES
															Homogeneous
0059229CPL white duct fabric	WK/1664-23	-	-	-	-	-	-	90 %	-	6 %	-	-	4 %	12/29/03	ES
															Homogeneous
0059230CPL Yellow insulation	WK/1664-24	-	-	-	-	-	-	-	-	100 %	-	-	-	12/29/03	ES
															Homogeneous
0059231CPL Duct fabric	WK/1664-25	-	-	-	-	-	-	90 %	-	10 %	-	-	-	12/29/03	ES
															Homogeneous
0059232CPL Yellow insulation	WK/1664-26	-	-	-	-	-	-	-	-	100 %	-	-	-	12/29/03	ES
															Homogeneous

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NFM: Opaq, Misc. Part.

NFM: Opaq, Misc. Part.

NFM: Opaq, Misc. Part.

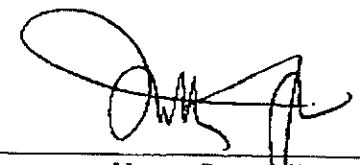
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Polarized Light Microscopy Analysis Results
Project AOC312340

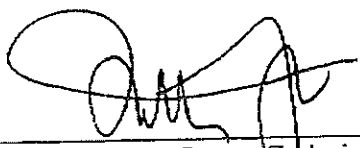
Sample Number / Sample Appearance	Client Sample Number	Asbestos							Nonasbestos				Run Date	Analyst	
		Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite	Cellulose	Mineral Wool	Fibrous Glass	Synthetic Fibers	Other Fibers			NonFibrous Material
0059233CPL Grey insulation	WK/1664-27	55 %	-	-	-	-	35 %	-	-	-	-	-	10 %	12/29/03	ES
							NFM: Opaq, Misc. Part.								Homogeneous
0059234CPL Grey insulation	WK/1664-28	55 %	-	-	-	-	45 %	-	-	-	-	-	-	12/29/03	ES
							NFM: Opaq, Misc. Part.								Homogeneous

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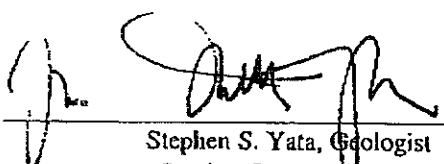
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Project AOC312341

Sample Number / Sample Appearance	Client Sample Number	-----Asbestos-----							-----Nonasbestos-----					Run Date
		Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite	Cellulose	Mineral Wool	Fibrous Glass	Synthetic Fibers	Other Fibers	NonFibrous Material	
0059235CPL White drywall ; wht. comp Layer Content: Comp <1% Chrysotile ; Other Layer : None Detected	WK/1664-29	<1 %	-	-	-	-	3 %	-	<1 %	-	-	97 %	12/29/03	
NFM: Qtz, Carb, Binder, Opaq, Gyp, Mica, Misc. Part.													SSY	
													Non Homogeneous	
0059236CPL White drywall ; wht. comp Layer Content: Comp <1% Chrysotile ; Other Layer : None Detected	WK/1664-30	<1 %	-	-	-	-	3 %	-	<1 %	-	-	97 %	12/29/03	
NFM: Qtz, Carb, Binder, Opaq, Gyp, Mica, Misc. Part.													SSY	
													Non Homogeneous	
0059237CPL White duct tape	WK/1664-31	-	-	-	-	-	90 %	-	-	-	-	10 %	12/29/03	
NFM: Qtz, Carb, Binder, Opaq, Misc. Part.													SSY	
													Homogeneous	
0059238CPL White duct tape	WK/1664-32	-	-	-	-	-	90 %	-	-	-	-	10 %	12/29/03	
NFM: Qtz, Carb, Binder, Opaq, Misc. Part.													SSY	
													Homogeneous	
0059239CPL White duct tape	WK/1664-33	-	-	-	-	-	90 %	-	-	-	-	10 %	12/29/03	
NFM: Qtz, Carb, Binder, Opaq, Misc. Part.													SSY	
													Homogeneous	
0059240CPL White duct tape	WK/1664-34	-	-	-	-	-	90 %	-	-	-	-	10 %	12/29/03	
NFM: Qtz, Carb, Binder, Opaq, Misc. Part.													SSY	
													Homogeneous	

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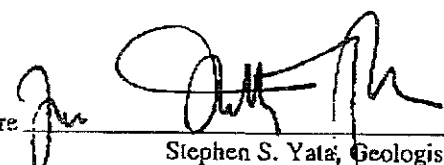
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Test Report - Winzler & Kelly
Polarized Light Microscopy Analysis Results
Project AOC312341

Sample Number / Sample Appearance	Client Sample Number	-----Asbestos-----							-----Nonasbestos-----				Run Date
		Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite	Celulose	Mineral Wool	Fibrous Glass	Synthetic Fibers	Other Fibers	
0059241CPL White duct connector	WK/1664-35	-	-	-	-	-	-	-	20 %	-	-	80 %	12/29/03 SSY
													Homogeneous
0059242CPL White cloth wrap	WK/1664-36	-	-	-	-	-	-	80 %	-	-	-	20 %	12/29/03 SSY
													Homogeneous
0059243CPL Brown paper ; yellow insulation	WK/1664-37	-	-	-	-	-	-	40 %	-	20 %	-	40 %	12/29/03 SSY
													Non Homogeneous
0059244CPL Brown paper wrap	WK/1664-38	-	-	-	-	-	-	50 %	-	20 %	-	30 %	12/29/03 SSY
													Homogeneous
0059245CPL White drywall; wht. comp Layer Content: Comp 2% Chrysotile ; Other Layer : None Detected	WK/1664-39	<1 %	-	-	-	-	-	3 %	-	<1 %	-	97 %	12/29/03 SSY
													Non Homogeneous
0059246CPL White drywall ; wht. comp Layer Content: Comp <1% Chrysotile ; Other Layer : None Detected	WK/1664-40	<1 %	-	-	-	-	-	3 %	-	2 %	-	95 %	1/5/04 NP
													Non Homogeneous

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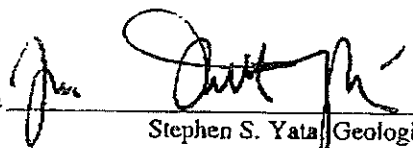
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Polarized Light Microscopy Analysis Results
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Sample Number / Sample Appearance	Client Sample Number	-----Asbestos-----						-----Nonasbestos-----					Run Date Analyst		
		Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite	Cellulose	Mineral Wool	Fibrous Glass	Synthetic Fibers	Other Fibers		NonFibrous Material	
0059247CPL White duct tape	WK/1664-41	-	-	-	-	-	-	85 %	-	-	-	-	15 %	12/29/03 SSY	Homogeneous
								NFM: Qtz, Carb, Binder, Opaq, Misc. Part.							
0059248CPL White duct tape	WK/1664-42	-	-	-	-	-	-	85 %	-	-	-	-	15 %	12/29/03 SSY	Homogeneous
								NFM: Qtz, Carb, Binder, Opaq, Misc. Part.							
0059249CPL White duct tape	WK/1664-43	-	-	-	-	-	-	85 %	-	-	-	-	15 %	12/29/03 SSY	Homogeneous
								NFM: Qtz, Carb, Binder, Opaq, Misc. Part.							
0059250CPL White duct connector	WK/1664-44	-	-	-	-	-	-	<1 %	-	80 %	-	-	20 %	12/29/03 SSY	Homogeneous
								NFM: Qtz, Carb, Binder, Opaq, Misc. Part.							
0059251CPL Brown paper wrap	WK/1664-45	-	-	-	-	-	-	85 %	-	-	-	-	15 %	12/29/03 SSY	Non Homogeneous
								NFM: Qtz, Carb, Binder, Opaq, Misc. Part.							
0059252CPL Yellow TSI	WK/1664-46	-	-	-	-	-	-	<1 %	10 %	70 %	-	-	20 %	12/29/03 SSY	Homogeneous
								NFM: Qtz, Carb, Binder, Opaq, Misc. Part.							

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Sample Number / Sample Appearance	Client Sample Number	-----Asbestos-----							-----Nonasbestos-----				Run Date
		Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite	Cellulose	Mineral Wool	Fibrous Glass	Synthetic Fibers	Other Fibers	
0059253CPL White cloth wrap	WK/1664-47	-	-	-	-	-	80 %	-	-	-	-	20 %	12/29/03
													SSY
													Homogeneous
0059254CPL Brown paper wrap	WK/1664-48	-	-	-	-	-	65 %	-	5 %	-	-	30 %	12/29/03
													SSY
													Homogeneous
0059255CPL Yellow TSI	WK/1664-49	-	-	-	-	-	<1 %	15 %	65 %	-	-	20 %	12/29/03
													SSY
													Homogeneous
0059256CPL Black neoprene	WK/1664-50	-	-	-	-	-	2 %	-	-	-	-	98 %	12/29/03
													SSY
													Homogeneous
0059257CPL Tar wrap	WK/1664-51	-	-	-	-	-	6 %	-	-	-	-	94 %	12/29/03
													SSY
													Homogeneous
0059258CPL Tar wrap	WK/1664-52	-	-	-	-	-	8 %	-	-	-	-	92 %	12/29/03
													SSY
													Homogeneous

NFM: Qtz, Carb, Binder, Opaq, Misc. Part.

NFM: Qtz, Carb, Binder, Opaq, Misc. Part.

NFM: Qtz, Carb, Binder, Opaq, Misc. Part.

NFM: Qtz, Carb, Binder, Opaq, Misc. Part.

NFM: Qtz, Tar, Carb, Binder, Opaq, Misc. Part.

NFM: Qtz, Tar, Carb, Binder, Opaq, Misc. Part.

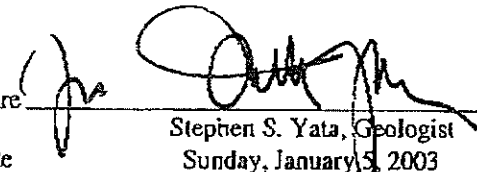
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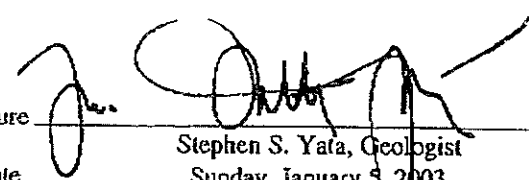
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Sample Number / Sample Appearance	Client Sample Number	-----Asbestos-----							-----Nonasbestos-----				Run Date Analyst	
		Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite	Ceclulose	Mineral Wool	Fibrous Glass	Synthetic Fibers	Other Fibers		NonFibrous Material
0059259CPL Tan TSI	WK/1664-53	-	-	-	-	-	-	50 %	-	10 %	-	-	40 %	12/29/03 SSY
													NFM: Qtz, Carb, Binder, Opaq, Misc. Part.	Homogeneous
0059260CPL Grey duct wrap	WK/1664-54	-	-	-	-	-	-	75 %	-	-	-	-	25 %	12/29/03 SSY
													NFM: Qtz, Carb, Binder, Opaq, Misc. Part.	Homogeneous
0059261CPL Grey duct wrap	WK/1664-55	-	-	-	-	-	-	80 %	-	-	-	-	20 %	12/29/03 SSY
													NFM: Qtz, Carb, Binder, Opaq, Misc. Part.	Homogeneous
0059262CPL Grey duct wrap	WK/1664-56	-	-	-	-	-	-	80 %	-	5 %	-	-	15 %	12/29/03 SSY
													NFM: Qtz, Carb, Binder, Opaq, Misc. Part.	Homogeneous
0059263CPL Grey duct wrap	WK/1664-57	-	-	-	-	-	-	80 %	-	-	-	-	20 %	12/29/03 SSY
													NFM: Qtz, Carb, Binder, Opaq, Misc. Part.	Homogeneous
0059264CPL Brown paper wrap	WK/1664-58	-	-	-	-	-	-	70 %	-	10 %	-	-	20 %	12/29/03 SSY
													NFM: Qtz, Carb, Binder, Opaq, Misc. Part.	Homogeneous

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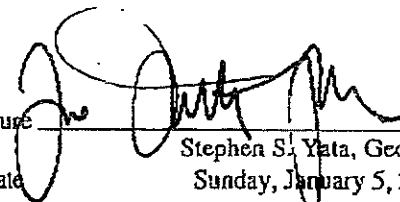
Sample Number / Sample Appearance	Client Sample Number	-----Asbestos-----							-----Nonasbestos-----				Run Date	Analyst	
		Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite	Cellulose	Mineral Wool	Fibrous Glass	Synthetic Fibers	Other Fibers			NonFibrous Material
0059265CPL Silver paper wrap	WK/1664-59	-	-	-	-	-	-	40 %	-	15 %	-	-	45 %	12/29/03	SSY
								NFM: Qtz, Carb, Binder, Opaq, Misc. Part.					Homogeneous		
0059266CPL Silver paper wrap	WK/1664-60	-	-	-	-	-	-	40 %	-	20 %	-	-	40 %	12/29/03	SSY
								NFM: Qtz, Carb, Binder, Opaq, Other, Misc. Part.					Non Homogeneous		
0059267CPL Yellow TSI	WK/1664-61	-	-	-	-	-	-	-	20 %	60 %	-	-	20 %	12/29/03	SSY
								NFM: Qtz, Carb, Binder, Opaq, Misc. Part.					Homogeneous		
0059268CPL Silver paper wrap	WK/1664-62	-	-	-	-	-	-	40 %	-	20 %	-	-	40 %	12/29/03	SSY
								NFM: Qtz, Carb, Binder, Opaq, Other, Misc. Part.					Homogeneous		
0059269CPL Silver paper wrap	WK/1664-63	-	-	-	-	-	-	40 %	-	20 %	-	-	40 %	12/29/03	SSY
								NFM: Qtz, Carb, Binder, Opaq, Misc. Part.					Homogeneous		
0059270CPL Tan joint wrap	WK/1664-64	-	-	-	-	-	-	40 %	-	15 %	-	-	45 %	12/29/03	SSY
								NFM: Qtz, Carb, Binder, Opaq, Other, Misc. Part.					Homogeneous		

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Sample Number / Sample Appearance	Client Sample Number	-----Asbestos-----							-----Nonasbestos-----				Run Date	
		Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite	Cellulose	Mineral Wool	Fibrous Glass	Synthetic Fibers	Other Fibers		NonFibrous Material
0059271CPL Yellow TSI	WK/1664-65	-	-	-	-	-	-	-	20 %	50 %	-	-	30 %	12/29/03
													SSY	
													Homogeneous	
0059272CPL White joint wrap	WK/1664-66	-	-	-	-	-	-	60 %	-	-	-	-	40 %	12/29/03
													SSY	
													Homogeneous	

NFM: Qtz, Carb, Binder, Opaq, Misc. Part.

NFM: Qtz, Carb, Binder, Opaq, Other, Misc. Part.

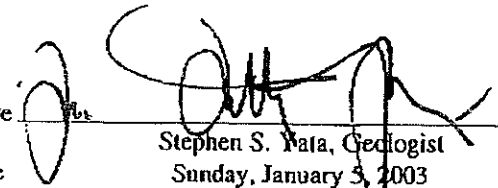
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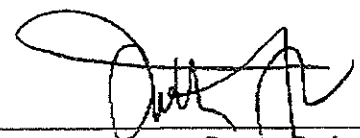
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Polarized Light Microscopy Analysis Results
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Sample Number / Sample Appearance	Client Sample Number	-----Asbestos-----							-----Nonasbestos-----				Run Date	Analyst	
		Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite	Cellulose	Mineral Wool	Fibrous Glass	Synthetic Fibers	Other Fibers			NonFibrous Material
0059273CPL Silver wrap	WK/1664-67	-	-	-	-	-	-	10 %	-	50 %	-	-	40 %	12/29/03	ES
															Homogeneous
0059274CPL Yellow insulation	WK/1664-68	-	-	-	-	-	-	-	-	95 %	-	-	5 %	12/29/03	ES
															Homogeneous
0059275CPL Yellow insulation ; silver wrap	WK/1664-69	-	-	-	-	-	-	10 %	-	80 %	-	-	10 %	12/29/03	ES
															Non Homogeneous
0059276CPL Silver caulking	WK/1664-70	1 %	-	-	-	-	-	-	-	-	-	-	99 %	12/29/03	ES
															Homogeneous
0059277CPL Grey paint	WK/1664-71	-	-	-	-	-	-	-	-	-	-	-	100 %	12/29/03	ES
															Homogeneous
0059278CPL Silver caulking	WK/1664-72	1 %	-	-	-	-	-	-	-	-	-	-	99 %	12/29/03	ES
															Homogeneous

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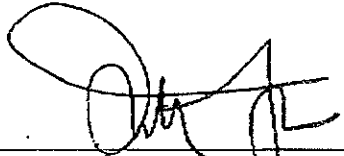
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Sample Number / Sample Appearance Client Sample Number	-----Asbestos-----							-----Nonasbestos-----				Run Date Analyst	
	Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite	Cellulose	Mineral Wool	Fibrous Glass	Synthetic Fibers	Other Fibers		NonFibrous Material
0059279CPL WK/1664-73 Yellow insulation ; silver wrap	-	-	-	-	-	-	5 %	-	90 %	-	-	5 %	12/29/03 ES Homogeneous
0059280CPL WK/1664-74 Grey paint	-	-	-	-	-	-	-	-	-	-	-	100 %	12/29/03 ES Homogeneous
0059281CPL WK/1664-75 White/yellow insulation ; silver wrap	-	-	-	-	-	-	5 %	-	80 %	-	-	15 %	12/29/03 ES Homogeneous
0059282CPL WK/1664-76 Silver caulking	1 %	-	-	-	-	-	-	-	-	-	-	99 %	12/29/03 ES Homogeneous
0059283CPL WK/1664-77 Silver caulking	2 %	-	-	-	-	-	-	-	-	-	-	98 %	12/29/03 ES Homogeneous
0059284CPL WK/1664-78 Silver wrap ; yellow insulation	-	-	-	-	-	-	10 %	-	80 %	-	-	10 %	12/29/03 ES Non Homogeneous

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Sample Number / Sample Appearance	Client Sample Number	-----Asbestos-----								-----Nonasbestos-----				Run Date	Analyst
		Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite	Cellulose	Wool	Mineral Glass	Fibrous Fibers	Synthetic Fibers	Other Material		
0059285CPL Silver caulking	WK/1664-79	1 %	-	-	-	-	-	-	-	10 %	-	-	89 %	12/29/03	ES
										NFM: Carb, Binder, Opaq, Misc. Part.				Homogeneous	

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Sample Number / Sample Appearance	Client Sample Number	-----Asbestos-----										-----Nonasbestos-----				Run Date
		Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite	Cellulose	Wool	Mineral	Fibrous	Synthetic	Other	NonFibrous	Material	
0059286CPL Silver caulking	WK/1664-80	2 %	-	-	-	-	-	-	-	-	-	-	-	-	98 %	12/29/03
										NFM: Carb, Binder, Opaq, Misc. Part.				ES	Homogeneous	

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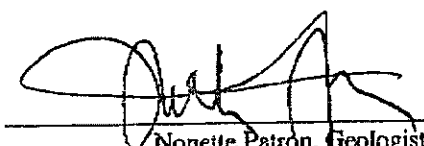
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Sample Number / Sample Appearance	Client Sample Number	-----Asbestos-----							-----Nonasbestos-----				Run Date	Analyst	
		Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite	Cellulose	Mineral Wool	Fibrous Glass	Synthetic Fibers	Other Fibers			NonFibrous Material
0059381CPL White caulking	WK/1664-81	-	-	-	-	-	-	-	-	-	-	-	100 %	12/29/03	NP
															Homogeneous
0059382CPL White TSI	WK/1664-82	-	-	-	-	-	-	5 %	85 %	-	-	-	10 %	12/29/03	NP
															Homogeneous
0059383CPL White / pink TSI	WK/1664-83	-	-	-	-	-	-	5 %	85 %	-	-	-	10 %	12/29/03	NP
															Homogeneous
0059384CPL White / pink TSI	WK/1664-84	-	-	-	-	-	-	5 %	85 %	-	-	-	10 %	12/29/03	NP
															Homogeneous
0059385CPL White / pink TSI	WK/1664-85	-	-	-	-	-	-	-	85 %	-	-	-	15 %	12/29/03	NP
															Homogeneous
0059386CPL White / pink TSI	WK/1664-86	-	-	-	-	-	-	10 %	75 %	-	-	-	15 %	12/29/03	NP
															Homogeneous

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San Leandro, CA 94577

Page: 1 of 1

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 R J LEE GROUP INC
 510 567 0488 -> WINZLER & KELLY (EUREKA)
 NO. 0519 P. 13/14
 Page 23

Test Report - Winzler & Kelly

Polarized Light Microscopy Analysis Results

Project AOC312345

Sample Number / Sample Appearance	Client Sample Number	Asbestos						Nonasbestos				Run Date	Analyst		
		Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite	Cellulose	Mineral Wool	Fibrous Glass	Synthetic Fibers			Other Fibers	NonFibrous Material
0059287CPL White insulation	WK/1664-87	-	-	-	-	-	-	1 %	-	-	-	-	99 %	12/29/03	ES
								NFM: Qtz, Carb, Opaq, Misc. Part.				Homogeneous			
0059288CPL Grey insulation	WK/1664-88	-	-	-	-	-	-	10 %	15 %	-	-	-	75 %	12/29/03	ES
								NFM: Qtz, Carb, Misc. Part.				Homogeneous			
0059289CPL White insulation	WK/1664-89	-	-	-	-	-	-	-	-	-	10 %	-	90 %	12/29/03	ES
								NFM: Carb, Misc. Part.				Homogeneous			
0059290CPL Grey insulation	WK/1664-90	-	-	-	-	-	-	15 %	15 %	-	-	-	70 %	12/29/03	ES
								NFM: Carb, Opaq, Misc. Part.				Homogeneous			
0059291CPL White insulation	WK/1664-91	-	-	-	-	-	-	-	-	5 %	5 %	-	90 %	12/29/03	ES
								NFM: Carb, Misc. Part.				Homogeneous			
0059292CPL Silver wrap	WK/1664-92	-	-	-	-	-	-	-	-	40 %	-	-	60 %	12/29/03	ES
								NFM: Opaq, Misc. Part.				Homogeneous			

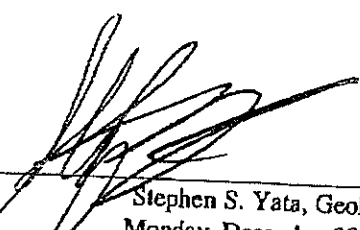
Samples received on: Monday, December 22, 2003

RJ Lee Group, Inc.
Bay Area Lab

530 McCormick Street
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Page: 1 of 3

Authorized Signature

Date



Stephen S. Yata, Geologist
Monday, December 29, 2003
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Test Report - Winzler & Kelly

Polarized Light Microscopy Analysis Results

Project AOC312345

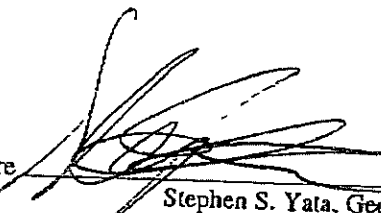
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 R J LEE GROUP INC
 510 567 0488 -> WINZLER & KELLY (EUREKA); Page 3
 NO. 0515- -P. 3

Sample Number / Sample Appearance	Client Sample Number	-----Asbestos-----							-----Nonasbestos-----				Run Date Analyst	
		Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite	Cellulose	Mineral Wool	Fibrous Glass	Synthetic Fibers	Other Fibers		NonFibrous Material
0059293CPL Yellow insulation	WK/1664-93	-	-	-	-	-	-	-	-	100 %	-	-	-	12/29/03 ES Homogeneous
0059294CPL Tan fabric	WK/1664-94	-	-	-	-	-	-	99 %	-	-	-	-	1 %	12/29/03 ES Homogeneous
0059295CPL Red insulation	WK/1664-95	-	-	-	-	-	-	-	-	100 %	-	-	-	12/29/03 ES Homogeneous
0059296CPL Roofing shingle	WK/1664-96	-	-	-	-	-	-	-	-	15 %	-	-	85 %	12/29/03 ES Homogeneous
0059297CPL Offwhite fabric tape; silver paint	WK/1664-97	-	-	-	-	-	-	90 %	-	-	-	-	10 %	12/29/03 ES Homogeneous
0059298CPL Silver paper wrap ; yellow insulation	WK/1664-98	-	-	-	-	-	-	-	-	50 %	-	-	50 %	12/29/03 ES Non Homogeneous

Samples received on: Monday, December 22, 2003

RJ Lee Group, Inc.
Bay Area Lab

530 McCormick Street
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Page: 2 of 3

Authorized Signature 
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Test Report - Winzler & Kelly
Polarized Light Microscopy Analysis Results
Project AOC312345

Sample Number / Sample Appearance	Client Sample Number	-----Asbestos-----							-----Nonasbestos-----				Run Date	Analyst				
		Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite	Cellulose	Mineral Wool	Fibrous Glass	Synthetic Fibers	Other Fibers			NonFibrous Material			
0059299CPL Yellow insulation	WK/1664-99	-	-	-	-	-	-	-	-	-	-	-	100 %	-	-	-	12/29/03	ES
																		Homogeneous
0059300CPL Roofing material	WK/1664-100	-	-	-	-	-	-	-	-	-	-	-	20 %	-	-	80 %	12/29/03	ES
																		Homogeneous

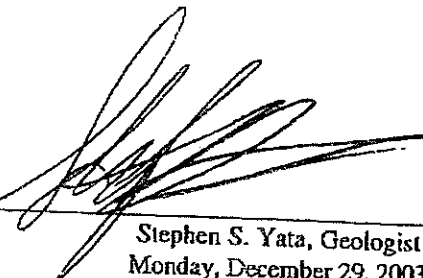
NFM: , Misc. Part.

NFM: Qtz, Tar, Carb, Binder, Opaq, Fine Grains, Misc. Part.

Samples received on: Monday, December 22, 2003

RJ Lee Group, Inc.
Bay Area Lab

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 Page: 3 of 3

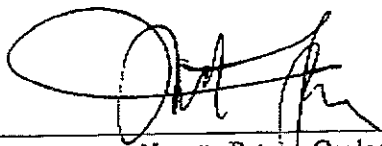
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 510 567 0488 -> WINZLER & KELLY (EUREKA)
 NO. 0515 P. 4 Page 4

Test Report - Winzler & Kelly
Polarized light Microscopy Analysis results
Project AOC312346

Sample Number / Sample Appearance	Client Sample Number	Asbestos							Nonasbestos				Run Date	Analyst	
		Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite	Cellulose	Mineral Wool	Fibrous Glass	Synthetic Fibers	Other Fibers			NonFibrous Material
0059376CPL Silver paper w/TSI	WK/1664-101	-	-	-	-	-	-	10 %	50 %	20 %	-	-	20 %	12/23/03	NP
															NFM: , Misc. Part. Homogeneous
0059377CPL Silver paper w/TSI	WK/1664-102	-	-	-	-	-	-	10 %	50 %	20 %	-	-	20 %	12/23/03	NP
															NFM: , Misc. Part. Homogeneous
0059378CPL Grey sealant	WK/1664-103	<1 %	-	-	-	-	-	-	-	-	-	-	99+ %	12/23/03	NP
															NFM: Carb, Misc. Part. Homogeneous
0059379CPL White duct connector	WK/1664-104	-	-	-	-	-	-	-	-	75 %	-	-	25 %	12/23/03	NP
															NFM: , Misc. Part. Homogeneous
0059380CPL Grey sealant	WK/1664-105	<1 %	-	-	-	-	-	-	-	-	-	-	99+ %	12/23/03	NP
															NFM: Carb, Misc. Part. Homogeneous

Samples received on: Monday, December 22, 2003

Authorized Signature 

Nonette Patron, Geologist
 Monday, December 29, 2003

Date

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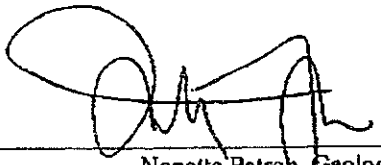
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 NO. 0518 P. 2/10

Test Report - Winzler & Kelly
Polarized Light Microscopy Analysis Results
Project AOC312347

Sample Number / Sample Appearance	Client Sample Number	-----Asbestos-----							-----Nonasbestos-----				Run Date
		Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite	Cellulose	Mineral Wool	Fibrous Glass	Synthetic Fibers	Other Fibers	
0059347CPL White joint comp ; wht. drywall <i>Layer Content:</i> Joint Comp 2% Chrysotile ; Other Layer : None Detected	WK/1664-106	<1 %	-	-	-	-	5 %	-	-	-	-	95 %	12/23/03 NP Non Homogeneous
NFM: Carb, Gyp, Misc. Part.													
0059348CPL White joint comp ; wht. drywall <i>Layer Content:</i> Joint Comp <1% Chrysotile ; Other Layer : None Detected	WK/1664-107	<1 %	-	-	-	-	5 %	-	-	-	-	95 %	12/23/03 NP Non Homogeneous
NFM: Carb, Gyp, Misc. Part.													
0059349CPL White joint comp ; wht. drywall <i>Layer Content:</i> Joint Comp <1% Chrysotile ; Other Layer : None Detected	WK/1664-108	<1 %	-	-	-	-	5 %	-	-	-	-	95 %	12/23/03 NP Non Homogeneous
NFM: Carb, Gyp, Misc. Part.													
0059350CPL Tan TSI	WK/1664-109	2 %	-	-	-	-	5 %	50 %	-	-	-	43 %	12/23/03 NP Homogeneous
NFM: Carb, Gyp, Misc. Part.													
0059351CPL Brown foam w/fabric	WK/1664-110	-	-	-	-	-	5 %	-	-	-	-	95 %	12/23/03 NP Homogeneous
NFM: , Misc. Part.													
0059352CPL Tan TSI	WK/1664-111	2 %	-	-	-	-	5 %	50 %	-	-	-	43 %	12/23/03 NP Homogeneous
NFM: Carb, Gyp, Misc. Part.													

Samples received on: Monday, December 22, 2003

Authorized Signature 
 Date Monday, December 29, 2003
 Nonette Patron, Geologist

RJ Lee Group, Inc.
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 Page: 1 of 4

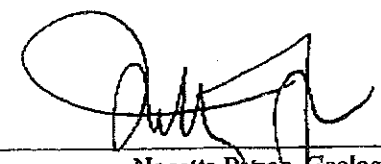
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Test Report - Winzler & Kelly
Polarized Light Microscopy Analysis Results
Project AOC312347

Sample Number / Sample Appearance	Client Sample Number	-----Asbestos-----								-----Nonasbestos-----				Run Date	Analyst
		Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite	Cellulose	Mineral Wool	Fibrous Glass	Synthetic Fibers	Other Fibers	NonFibrous Material		
0059353CPL Tan foam w/fabric	WK/1664-112	-	-	-	-	-	-	10 %	-	-	-	-	90 %	12/23/03 NP	Homogeneous
									NFM: Binder, Misc. Part.						
0059354CPL Black caulking	WK/1664-113	-	-	-	-	-	-	15 %	-	-	-	-	85 %	12/23/03 NP	Homogeneous
									NFM: Tar, Carb, Misc. Part.						
0059355CPL Black caulking	WK/1664-114	-	-	-	-	-	-	10 %	-	-	-	-	90 %	12/23/03 NP	Homogeneous
									NFM: Tar, Carb, Misc. Part.						
0059356CPL Pink fiberglass ; brn./silver fabric	WK/1664-115	-	-	-	-	-	-	5 %	80 %	-	-	-	15 %	12/23/03 NP	Non Homogeneous
									NFM: Binder, Misc. Part.						
0059357CPL Grey duct patching	WK/1664-116	-	-	-	-	-	-	70 %	15 %	-	-	-	15 %	12/23/03 NP	Homogeneous
									NFM: Carb, Misc. Part.						
0059358CPL Grey duct connector	WK/1664-117	-	-	-	-	-	-	-	-	50 %	-	-	50 %	12/23/03 NP	Homogeneous
									NFM: Binder, Misc. Part.						

Samples received on: Monday, December 22, 2003

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 Date Monday, December 29, 2003

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 Bay Area Lab

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 NO. 0519 P. 7/14

Test Report - Winzler & Kelly
Polarized Light Microscopy Analysis Results
Project AOC312347

Sample Number / Sample Appearance	Client Sample Number	-----Asbestos-----							-----Nonasbestos-----				Run Date	
		Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite	Cellulose	Mineral Wool	Fibrous Glass	Synthetic Fibers	Other Fibers		NonFibrous Material
0059359CPL Grey sealant	WK/1664-118	2 %	-	-	-	-	-	-	-	-	-	-	98 %	12/23/03 NP Homogeneous
0059360CPL Silver paper wrap ; wht. yellow TSI	WK/1664-119	-	-	-	-	-	-	5 %	50 %	-	-	-	45 %	12/23/03 NP Non Homogeneous
0059361CPL Black duct connector	WK/1664-120	-	-	-	-	-	-	-	-	85 %	-	-	15 %	12/23/03 NP Homogeneous
0059362CPL Tan loose debris	WK/1664-121	<1 %	<1 %	-	-	-	-	5 %	50 %	-	-	-	45 %	12/23/03 NP Homogeneous
0059363CPL Tan paper wrap ; yellow TSI	WK/1664-122	-	-	-	-	-	-	10 %	70 %	-	-	-	20 %	12/23/03 NP Non Homogeneous
0059364CPL Tan loose debris	WK/1664-123	<1 %	-	-	-	-	-	3 %	50 %	-	-	-	47 %	12/23/03 NP Homogeneous

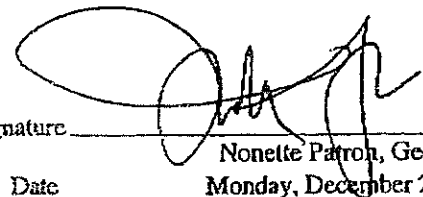
Samples received on: Monday, December 22, 2003

RJ Lee Group, Inc.
Bay Area Lab

530 McCormick Street
 San Leandro, CA 94577
 Page: 3 of 4

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 NO. 0519 P. 8/14 Page 18

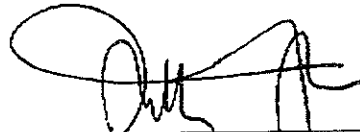
Test Report - Winzler & Kelly
Polarized Light Microscopy Analysis Results
Project AOC312347

Sample Number / Sample Appearance	Client Sample Number	-----Asbestos-----							-----Nonasbestos-----				Run Date	Analyst		
		Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite	Cellulose	Mineral Wool	Fibrous Glass	Synthetic Fibers	Other Fibers			NonFibrous Material	
0059365CPL Tan TSI	WK/1664-124	2 %	-	-	-	-	-	10 %	50 %	-	-	-	38 %	12/23/03	NP	
													NFM: Carb, Binder, Gyp, Misc. Part.		Homogeneous	
0059366CPL Tan TSI	WK/1664-125	2 %	-	-	-	-	-	10 %	50 %	-	-	-	38 %	12/23/03	NP	
													NFM: Carb, Binder, Gyp, Misc. Part.		Homogeneous	

Samples received on: Monday, December 22, 2003

RJ Lee Group, Inc.
Bay Area Lab

530 McCormick Street
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 Page: 4 of 4

Authorized Signature _____

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Received: 12/29/03 16:26:51
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 NO. 0519 P. 9/14 Page 19

Test Report - Winzler & Kelly
Polarized Light Microscopy Analysis Results
Project AOC312348

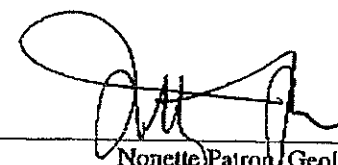
Sample Number / Sample Appearance	Client Sample Number	Asbestos							Nonasbestos				Run Date	Analyst	
		Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite	Cellulose	Mineral Wool	Fibrous Glass	Synthetic Fibers	Other Fibers			NonFibrous Material
0059367CPL White TSI	WK/1664-126	15 %	25 %	-	-	-	-	-	-	-	-	-	60 %	12/23/03 NP	Homogeneous
0059368CPL Grey patching	WK/1664-127	10 %	-	-	-	-	-	-	-	5 %	-	-	85 %	12/23/03 NP	Homogeneous
0059369CPL Black /silver coating	WK/1664-128	-	-	-	-	-	-	-	-	15 %	-	-	85 %	12/23/03 NP	Homogeneous
0059370CPL Black/silver coating	WK/1664-129	-	-	-	-	-	-	-	-	15 %	-	-	85 %	12/23/03 NP	Non Homogeneous
0059371CPL Silver coating	WK/1664-130	-	-	-	-	-	-	15 %	-	-	-	-	85 %	12/23/03 NP	Homogeneous
0059372CPL White loose debris	WK/1664-131	-	-	-	-	-	-	15 %	5 %	-	-	-	80 %	12/23/03 NP	Homogeneous

Samples received on: Monday, December 22, 2003

RJ Lee Group, Inc.
Bay Area Lab

530 McCormick Street
 San Leandro, CA 94577
 Page: 1 of 2

Authorized Signature _____



Nonette Patron, Geologist
 Monday, December 29, 2003

Date

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 NO. 0503 P. 2/4

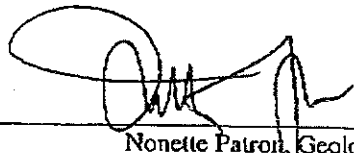
Test Report - Winzler & Kelly
Polarized Light Microscopy Analysis Results
Project AOC312348

Sample Number / Sample Appearance	Client Sample Number	-----Asbestos-----							-----Nonasbestos-----				Run Date	
		Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite	Cellulose	Mineral Wool	Fibrous Glass	Synthetic Fibers	Other Fibers		NonFibrous Material
0059373CPL Tan patching	WK/1664-132	10 %	-	-	-	-	-	-	-	-	-	-	90 %	12/23/03 NP Homogeneous
0059374CPL White joint taping	WK/1664-133	-	-	-	-	-	-	25 %	-	-	-	-	75 %	12/23/03 NP Homogeneous
0059375CPL Black mastic	WK/1664-134	-	-	-	-	-	-	10 %	-	-	-	-	90 %	12/23/03 NP Homogeneous

Samples received on: Monday, December 22, 2003

RJ Lee Group, Inc.
Bay Area Lab

530 McCormick Street
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Authorized Signature 
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Test Report - Winzler & Kelly
Polarized Light Microscopy Analysis Results
Project AOC401318

Sample Number / Sample Appearance	Client Sample Number	-----Asbestos-----							-----Nonasbestos-----				Run Date Analyst	
		Chrysotile	Amosite	Crocidolite	Anthophyllite	Tremolite	Actinolite	Cellulose	Mineral Wool	Fibrous Glass	Synthetic Fibers	Other Fibers		NonFibrous Material
0060755CPL White TSI	WK/1664-135	10 %	-	-	-	-	-	15 %	25 %	-	-	-	50 %	1/28/04 NP Homogeneous
								NFM: Carb, Gyp, Misc. Part.						
0060756CPL White TSI	WK/1664-136	10 %	25 %	-	-	-	-	-	-	-	-	-	65 %	1/28/04 NP Homogeneous
								NFM: Carb, Gyp, Misc. Part.						

Samples received on: Wednesday, January 28, 2004

RJ Lee Group, Inc.
Bay Area Lab

530 McCormick Street
 San Leandro, CA 94577

Authorized Signature 
 Date _____
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 Wednesday, January 28, 2004
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Received: 1/30/04 11:44:51
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 510 567 0488 -> WINZLER & KELLY (EUREKA)
 NO. 1283 P. 2 Page 2



Forensic Analytical

Amended Report

Bulk Asbestos Analysis

(EPA Method 600/R-93-116, Visual Area Estimation)

Winzler & Kelly
Clay Guzi
Consulting & Engineering
633 Third St.
Eureka, CA 95501

Client ID: 1883
Report Number: B057285
Date Received: 01/09/04
Date Analyzed: 01/12/04
Date Printed: 01/12/04
First Reported: 01/09/04

Job ID / Site: 03166404.030 - HV-5/Gym

FASI Job ID: 1883-69

Sample Number	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
---------------	------------	---------------	------------------	---------------	------------------	---------------	------------------

WK11664-17-D	10292181						
--------------	----------	--	--	--	--	--	--

Layer: Off-White Woven Material

ND

Total Composite Values of Fibrous Components: Asbestos:(ND)

Cellulose (95%)

Comment: Collected on 01/07/2004

WK11664-18-D	10292182						
--------------	----------	--	--	--	--	--	--

Layer: Yellow Fibrous Material

ND

Total Composite Values of Fibrous Components: Asbestos:(ND)

Cellulose (Trace%) Fibrous Glass (99%)

Comment: Collected on 01/07/2004

WK11664-19-D	10292183						
--------------	----------	--	--	--	--	--	--

Layer: Off-White Woven Material

ND

Layer: Yellow Fibrous Material

ND

Total Composite Values of Fibrous Components: Asbestos:(ND)

Cellulose (90%) Fibrous Glass (10%)

Comment: Collected on 01/07/2004

WK11664-20-D	10292184						
--------------	----------	--	--	--	--	--	--

Layer: Yellow Fibrous Material

ND

Total Composite Values of Fibrous Components: Asbestos:(ND)

Cellulose (Trace%) Fibrous Glass (99%)

Comment: Collected on 01/07/2004

WK11664-21-D	10292185						
--------------	----------	--	--	--	--	--	--

Layer: Black Non-Fibrous Material

ND

Layer: Off-White Fibrous Material

ND

Layer: Yellow Adhesive

Chrysotile

7 %

Total Composite Values of Fibrous Components: Asbestos:(Trace)

Cellulose (Trace%) Fibrous Glass (80%)

Comment: Collected on 01/07/2004



Forensic Analytical

Amended Report

Bulk Asbestos Analysis

(EPA Method 600/R-93-116, Visual Area Estimation)

Winzler & Kelly
Clay Guzi
Consulting & Engineering
633 Third St.
Eureka, CA 95501

Client ID: 1883
Report Number: B057285
Date Received: 01/09/04
Date Analyzed: 01/12/04
Date Printed: 01/12/04
First Reported: 01/09/04

Job ID / Site: 03166404.030 - HV-5/Gym

FASI Job ID: 1883-69

Sample Number	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
WK11664-22-D	10292186						
Layer: Black Non-Fibrous Material			ND				
Layer: Off-White Fibrous Material			ND				
Layer: Yellow Adhesive		Chrysotile	7 %				
Total Composite Values of Fibrous Components:		Asbestos:(Trace)					
Cellulose (Trace%)		Fibrous Glass (80%)					
Comment: Collected on 01/07/2004							

Jim Flores
James Flores, Laboratory Supervisor, Hayward Laboratory


Note: Limit of Quantification ('LOQ') = 1%. 'Trace' denotes the presence of asbestos below the LOQ. 'ND' = 'None Detected'.

Analytical results and reports are generated by Forensic Analytical at the request of and for the exclusive use of the person or entity (client) named on such report. Results, reports or copies of same will not be released by Forensic Analytical to any third party without prior written request from client. This report applies only to the sample(s) tested. Supporting laboratory documentation is available upon request. This report must not be reproduced except in full, unless approved by Forensic Analytical. The client is solely responsible for the use and interpretation of test results and reports requested from Forensic Analytical. This report must not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government. Forensic Analytical is not able to assess the degree of hazard resulting from materials analyzed. Forensic Analytical reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified. All samples were received in acceptable condition unless otherwise noted.

DEC. 29. 2003 1:34PM R J LEE GROUP INC

NO. 0502 P. 5/5

Fax Results to Clay Guzi (707) 443-8326

 WINZLER & KELLY CONSULTING ENGINEERS 633 Third Street Eureka, California 95501 707.443.8326 fax 707.444.8330 www.w-and-k.com eka@w-and-k.com	Phone: (707) 443-8326	Date: 12-10-03
	Circle the Method and Turnaround Time 3 day Hr/12-hr/24-hr/48-hr/Ext	Results Needed: 12-26-03
	PLM: Standard/Point Count	Gravimetry Prep
CONTACT: Clay Guzi	Job # 03166404.030	Site AV-4 - Gym

AV-4/2338

BULK SAMPLE COLLECTION

Sample Number	Sample Description	Location	Material Type	Material Condition	Friable
2	Duct Fabric, white	AV-4 Mechanical Rm., South Side	MM	ND	F
3	TSE "Spun-glass" on ducting fabric under	"	TSE	ND	F
4	Duct Fabric, white	"	MM	ND	F
5	TSE "Spun-glass" on ducting fabric under fabric	"	TSE	ND	F
6	Duct Fabric, white	"	MM	ND	F
7	TSE "Spun-glass" on ducting fabric under fabric	"	TSE	ND	F
8	Duct connector, black	"	MM	ND	F
9	"	" South Side	MM	ND	F
10	Fabric over TSE, white	North	MM	ND	F
11	TSE "Spun-glass", 3" Ø Horiz	"	TSE	ND	F
12	Fabric over TSE, 5" Ø Horiz	"	MM	ND	F
13	TSE "Spun-glass", 5" Ø Horiz	"	TSE	ND	F
14	TSE "Spun-glass", 5" Ø Elbow	"	TSE	ND	F
15	Fabric over TSE, 4" Ø Vert	"	TSE	ND	F
16	TSE "Spun-glass", 4" Ø Vert	"	TSE	ND	F

Damage Categories: Not Damaged = ND
 Damaged = DG
 Significantly Damaged = SD
 Potential Damage = PD
 Potentially Significant = PSD

Material Type: Thermal System Insulation = TSI
 Surfacing Material = SM
 Miscellaneous Material = MM


Sampled by: Misha Schwarz	Date: 12-11-03	Time:
Relinquished by: CG	Received by: FGD-Ex	Date/Time: 12-12-03
Date/Time: 12-12-03 07:45	Sealed Condition (circle one) YES / NO	
Relinquished by:	Received by: [Signature]	Date/Time: 12/22 @ 10:00
Date/Time:	Sealed Condition (circle one) YES / NO	

DEC. 29. 2003 4:13PM

R J LEE GROUP INC

NO. 0519 P. 4/14

Fax Results to Clay Guzi (707) 444-8330

 WINZLER & KELLY CONSULTING ENGINEERS 633 Third Street Eureka, California 95501 707.443.8326 fax 707.444.8330 www.w-and-k.com eka@w-and-k.com	Phone: (707) 443-8326	Date: 12-11-03
	Circle the Method and Turnaround Time (3) <u>Day</u> Hr/12-hr/24-hr/48-hr/Ext	Results Needed: 12-26-03
	PLM: Standard Point Count	Gravimetry Prep
CONTACT: Clay Guzi	Job # 03166404-030	Site HV-5/Gym

ADC312339

BULK SAMPLE COLLECTION

Sample Number	Sample Description	Location	Material Type	Material Condition	Friable
WT/1664-17	Duct Fabric, White	HV-5, Mechanical Rm. - North Side	MM	ND	F
" 18	TSI "spun-glass" on ducting ^{under fabric}	"	TSI	ND	F
" 19	Duct Fabric, White	"	MM	ND	F
" 20	TSI "spun-glass" on ducting ^{under fabric}	"	TSI	ND	F
" 21	Duct Connector, Black	"	MM	ND	F
" 22	"	"	MM	ND	F
" 23	white Fabric over TSI, 3 1/2" Ø Vert	"	MM	ND	F
" 24	TSI "spun-glass, 3 1/2" Ø Vert ^{under fabric}	"	TSI	ND	F
" 25	white Fabric over TSI, 5" Ø Horiz	" South Side	MM	ND	F
" 26	TSI "spun glass, under fabric	"			

Damage Categories: Not Damaged = ND
 Damaged = DG
 Significantly Damaged = SD
 Potential Damage = PD
 Potentially Significant = PSD

Material Type: Thermal System Insulation = TSI
 Surfacing Material = SM
 Miscellaneous Material = MM


Sampled by: Misha Schwarz	Date: 12-11-03	Time:
Relinquished by: <u>CG</u>	Received by: Fed-Ex	
Date/Time: 12-12-03 07:45	Date/Time: 12-12-03	Sealed Condition (circle one) YES / NO
Relinquished by:	Received by: <u>[Signature]</u>	
Date/Time:	Date/Time: 12/22 @ 9:57	Sealed Condition (circle one) YES / NO

DEC. 29. 2003, 2:51PM

R J LEE GROUP INC

NO. 0513 P. 9/11

fax Results to Clay Guzi (707) 444-8330

 WINZLER & KELLY CONSULTING ENGINEERS 633 Third Street Eureka, California 95501 707.443.8326 fax 707.444.8330 www.w-and-k.com aka@w-and-k.com	Phone: (707) 443-8326	Date: 12-16-03
	Circle the Method and Turnaround Time (3) day Hr/12-hr/24-hr/48-hr/Ext	Results Needed: 12-26-03
	PLM: Standard/Point Count	Gravimetry Prep
CONTACT: Clay Guzi	Job # 03166404.030	Site Creative Arts

AVC 3/2341

BULK SAMPLE COLLECTION

Sample Number	Sample Description	Location	Material Type	Material Condition	Friable
WK1664-29	J.C. /SR	HV-4 Wall, Southeast corner	MM	ND	F
30	"	" " Southwest area	MM	ND	F
31	Duct taping, white	HV-4, Large Ducting ^{West} side	MM	ND	NF
32	"	" " "	MM	ND	NF
33	"	HV-4 " East side	MM	ND	NF
34	"	" " West side	MM	ND	NF
35	Duct connector, white	" " North side	MM	ND	NF
36	Cloth wrap over TSI, 2.5" Ø Horiz	" " South side	MM	ND	F
37	Paper wrap TSI-sprungless 2.5" Ø Horiz	" " "	TSI	ND	F
38	Paper wrap on TSI 2.5" Ø Horiz	" " "	MM	ND	F
39	J.C. /SR	HV-5 Wall, Northwest side	MM	ND	F
40	"	" " Northeast "	MM	ND	F
41	Duct taping, white	HV-5 large Ducting North side	MM	ND	NF
42	"	" " "	MM	ND	NF
43	"	" " "	MM	ND	NF

Damage Categories: Not Damaged = ND
 Damaged = DG
 Significantly Damaged = SD
 Potential Damage = PD
 Potentially Significant = PSD

Material Type: Thermal System Insulation = TSI
 Surfacing Material = SM
 Miscellaneous Material = MM


Sampled by: Misha Schwetz	Date: 12-16-03	Time:
Relinquished by: CG Guzi	Received by: Fed-Exp	Date/Time: 12-19-03
Date/Time: 12-19-03 08:15	Sealed Condition (circle one) YES / NO	
Relinquished by:	Received by: [Signature]	Date/Time: 12/22/03 @ 10:00
Date/Time:	Sealed Condition (circle one) YES / No	

DEC. 29. 2003 2:51PM

R J LEE GROUP INC

NO. 0513 P. 10/11

Fax Results to Clay Guzi (707) 444-8330

 WINZLER & KELLY CONSULTING ENGINEERS 633 Third Street Eureka, California 95501 707.443.8326 fax 707.444.8330 www.w-and-k.com eka@w-and-k.com	Phone: (707) 443-8326	Date: 12-16-03
	Circle the Method and Turnaround Time (3) day Hr/12-hr/24-hr/48-hr/Ext	Results Needed: 12-26-03
	PLM: Standard/Point Count	Gravimetry Prep
CONTACT: Clay Guzi	Job # 03166404.030	Site Creative Arts

BULK SAMPLE COLLECTION


Sample Number	Sample Description	Location	Material Type	Material Condition	Friable
44	Duct connector, white	HV-5 large Ducting South Side	MM	ND	NF
45	Paper wrap, over TSI 2.5" Vert	HV-5, North Side	MM	ND	F
46	TSI - spun-glass, 2.5" Ø Vert	"	TSI	ND	F
47	Cloth wrap, over TSI 2.5" Ø Horiz	"	MM	ND	F
48	Paper wrap, over TSI 2.5" Ø Vert	"	MM	ND	F
49	TSI - spun-glass, 2.5" Ø Vert	"	TSI	ND	F
50	TSI, neoprene material 1.75" Ø Vert	Exterior, Roof Northwest Wing	TSI	D	NF
51	Tape/Cloth Wrap on Pipe connecting to HVAC unit	"	MM	ND	NF
52	"	"	MM	ND	NF
53	TSI spun glass, 3" Ø Vert. w/ metal jacket	"	TSI	ND	F
54	Duct taping, white w/ green paint	"	MM	ND	NF
55	"	"	MM	ND	NF
56	"	"	MM	ND	NF
57	"	"	MM	ND	NF
58	Silvac Paper & Spun-glass on ducting	Exterior, Attic off Northwest Roof of Wing	MM/TSI	ND	F

Damage Categories: Not Damaged = ND
 Damaged = DG
 Significantly Damaged = SD
 Potential Damage = PD
 Potentially Significant = PSD

Material Type: Thermal System Insulation = TSI
 Surfacing Material = SM
 Miscellaneous Material = MM

Sampled by: <u>Misha Schwarz</u>	Date: <u>12-16-03</u>	Time:
Relinquished by: <u>Clay Guzi</u>	Date/Time: <u>12-19-03 08:15</u>	Received by: <u>Fed-Ex</u>
		Date/Time: <u>12-19-03</u>
		Sealed Condition (circle one) YES / NO
Relinquished by:	Date/Time:	Received by: <u>[Signature]</u>
		Date/Time: <u>12/22 @ 10:00 A.</u>
		Sealed Condition (circle one) YES / NO

For Results to Clay Guzi (707) 444-8330


 WINZLER & KELLY CONSULTING ENGINEERS 633 Third Street Eureka, California 95501 707.443.8326 fax 707.444.8330 www.w-and-k.com eka@w-and-k.com	Phone: (707) 443-8326	Date: 12-16-03
	Circle the Method and Turnaround Time (3) day Hr/12-hr/24-hr/48-hr/Ext PLM: Standard/Point Count	Results Needed: 12-26-03
CONTACT: Clay Guzi	Job # 03166404.030	Site Creative Arts

BULK SAMPLE COLLECTION

Sample Number	Sample Description	Location	Material Type	Material Condition	Friable
59	Silver Paper Wrap ^{Spun glass} on Ducting	Exterior, Roof attic north west wing	MM/TSI	ND	F
60	Silver Paper Wrap ^{over 2.5" Ø} Horiz	"	MM	ND	F
61	TST, spun-glass 2.5" Ø Horiz	"	TST	ND	F
62	Silver Paper Wrap ^{Spun-glass} on Ducting	Roof attic off Corridor, outside HV-5	MM/TST	ND	F
63	"	"	MM/TST	ND	F
64	Joint Wrap Paper, Silver on 4" Ø Horiz	"	MM	ND	F
65	TST, Spun-glass 4" Ø Horiz	"	TST	ND	F
66	Joint Wrap Paper, Silver on 5" Ø Horiz	"	MM	ND	F

Damage Categories: Not Damaged = ND
 Damaged = DG
 Significantly Damaged = SD
 Potential Damage = PD
 Potentially Significant = PSD


Material Type: Thermal System Insulation = TSI
 Surfacing Material = SM
 Miscellaneous Material = MM

Sampled by: Misha Schwarz	Date: 12-18-03	Time:
Relinquished by: CG Sj	Received by: Fed-Ex	
Date/Time: 12-19-03 08:15	Date/Time: 12-19-03	Sealed Condition (circle one) YES / NO
Relinquished by:	Received by: 	
Date/Time:	Date/Time: 12/22 @ 10:00 AM	Sealed Condition (circle one) YES / NO

DEC. 29. 2003 4:12PM R J LEE GROUP INC

NO. 0518 P. 7/10

Fax Results to Clay Guzi (707) 444-8330

 WINZLER & KELLY CONSULTING ENGINEERS 633 Third Street Eureka, California 95501 707.443.8326 fax 707.444.8330 www.w-and-k.com eka@w-and-k.com	Phone: (707) 443-8326	Date: 12-16-03
	Circle the Method and Turnaround Time (3) day Hr/12-hr/24-hr/48-hr/Ext	Results Needed: 12-26-03
	PLM: Standard Point Count	Gravimetry Prep
CONTACT: Clay Guzi	Job # 03166404.030	Site Phys. Sci.

AOC 3/12/34/2

BULK SAMPLE COLLECTION

Sample Number	Sample Description	Location	Material Type	Material Condition	Friable
67	Silver Paper ^{wrap} and TSI-spon-glass on 3" Ø Horiz.	Exterior Roof - Northwest Wing	MM/TSI	ND	F
68	TSI-spon-glass 3.5" Ø Horiz	"	TSI	ND	F
69	Silver Paper wrap and TSI-spon-glass 5" Ø Horiz	"	MM/TSI	ND	F
70	Seam Caulking, Gray on 3" Ø TSI	"	MM	D	NF
71	Paint, Lt. Gray on Ducting	"	MM	ND	F
72	Seam Caulking, Gray	Exterior Roof - Southern Wing	MM	ND	NF
73	Silver Paper wrap and TSI-spon-glass 3" Ø Horiz	"	MM/TSI	ND	F
74	Paint, Lt. Gray on Ducting	Exterior Roof - Northeast Wing	MM	ND	F
75	Silver Paper wrap and TSI-spon-glass 3.5" Ø Horiz w/ plastic jacket	"	MM/TSI	ND	F
76	End caulking, gray on 3.5" Ø Horiz. w/ metal jacket	"	MM	ND	NF
77	Seam caulking, "	"	MM	ND	NF
78	Silver Paper wrap and TSI-spon-glass 4" Ø Horiz w/ metal jacket	Exterior Roof, Central Elevated section	MM/TSI	ND	F
79	End Sealant Gray Horiz w/ metal jacket	"	MM	ND	NF

Damage Categories: Not Damaged = ND
 Damaged = DG
 Significantly Damaged = SD
 Potential Damage = PD
 Potentially Significant = PSD


Material Type: Thermal System Insulation = TSI
 Surfacing Material = SM
 Miscellaneous Material = MM

Sampled by: Misha Schwarz	Date: 12-16-03	Time:
Relinquished by: Cg Guzi	Received by: Fed-Ex	Date/Time: 12-19-03
Date/Time: 12-19-03 08:15	Sealed Condition (circle one) YES / NO	
Relinquished by:	Received by: [Signature]	Date/Time: 12/22 @ 10:00A
Date/Time:	Sealed Condition (circle one) YES / NO	

DEC. 29. 2003 4:15PM R J LEE GROUP INC

NO. 0519 P. 14/14

Fax Results to Clay Guzi (707) 444-8330

 WINZLER & KELLY CONSULTING ENGINEERS 633 Third Street Eureka, California 95501 707.443.8326 fax 707.444.8330 www.w-and-k.com eka@w-and-k.com	Phone: (707) 443-8326	Date: 12-17-03
	Circle the Method and Turnaround Time (3 day) Hr/12-hr/24-hr/48-hr/Ext PLM; Standard/Point Count	Results Needed: 12-26-03
CONTACT: Clay Guzi	Job# 03166404.030	Site HV-8 Gym

AOC312344

BULK SAMPLE COLLECTION


Sample Number	Sample Description	Location	Material Type	Material Condition	Friable
6X11664-51	CaULKing, white	large ducting off HVAC unit, east side	MM	D	WF
82	White cloth wrap & TSI - spec. glass, 2 3/4" Ø Vort.	Piping off HVAC unit, south side	MM/TSI	ND	F
83	Silvex Paper wrap & TSI - spec. glass, 3" Ø Vort.	" "	MM/TSI	ND	F
84	White cloth wrap & TSI - spec. glass, 3 3/4" Ø Vort.	Piping in northwest corner of room	MM/TSI	ND	F
85	" " Horiz	" "	MM/TSI	ND	F
86	White corrugated paper wrap & TSI, 3" Ø Vort.	" "	MM/TSI	ND	F

Damage Categories: Not Damaged = ND
 Damaged = DG
 Significantly Damaged = SD
 Potential Damage = PD
 Potentially Significant = PSD

Material Type: Thermal System Insulation = TSI
 Surfacing Material = SM
 Miscellaneous Material = MM

Sampled by: Clay Guzi	Date: 12-17-03	Time:
Relinquished by: <i>Clay Guzi</i>	Received by: <i>Fel-Ex</i>	Date/Time: 12-19-03
Date/Time: 12-19-03 08:15	Sealed Condition (circle one) YES / NO	
Relinquished by:	Received by: <i>[Signature]</i>	Date/Time: 12/22 @ 10:00
Date/Time:	Sealed Condition (circle one) YES / NO	

fax Results to Clay Guzi (707) 444-8330

 WINZLER & KELLY CONSULTING ENGINEERS 633 Third Street Eureka, California 95501 707.443.8326 fax 707.444.8330 www.w-and-k.com eka@w-and-k.com	Phone: (707) 443-8326	Date: 12-17-03
	Circle the Method and Turnaround Time (3) day Hr/12-hr/24-hr/48-hr/Ext PLM: Standard Point Count	Results Needed: 12-26-03
CONTACT: Clay Guzi	Job # 03166404.030	Site Pool Filter- Gym

AOC 312345

BULK SAMPLE COLLECTION

Sample Number	Sample Description	Location	Material Type	Material Condition	Friable
WV1664-87	T&I debris, white	Floor, North of access hatch	T&I	SD	F
88	Mudded Joints b/t T&I - ^{over} other	Directly above access hatch	MM	D	F
89	T&I, white 3 1/2" Ø Horiz.	South of access hatch	T&I	D	F
90	Mudded Elbow on 3 1/2" Ø Horiz.	"	MM	D	F
91	T&I, white 3 1/2" Ø Vert.	"	T&I	D	F
92	Silver Paper wrap ^{over T&I} 4" Ø Vert.	North	MM	D	F
93	T&I - spva-glass, 4" Ø Vert.	"	T&I	D	F
94	Duct taping, white	Central room, east of access door	MM	ND	NF
95	T&I - spva-glass, pink	" " on large ducting covered with visqueen	T&I	D	F
96	Composite shingles - ^{laid over} flooring	" " below round ducting east side of room	MM	ND	NF
97	Duct taping, white	Eastern room, on round ducting	MM	ND	NF
98	Silver Paper wrap over T&I, 4" Ø Horiz.	Central room, north side	MM	D	F
99	T&I - spva-glass, 4" Ø Horiz.	"	T&I	D	F
100	Composite shingles laid over flooring	" " just east of access door	MM	ND	NF

Damage Categories: Not Damaged = ND
 Damaged = DG
 Significantly Damaged = SD
 Potential Damage = PD
 Potentially Significant = PSD

Material Type: Thermal System Insulation = TSI
 Surfacing Material = SM
 Miscellaneous Material = MM


Sampled by: Clay Guzi	Date: 12-17-03	Time:
Relinquished by: <i>[Signature]</i>	Received by: Fed-Exp	
Date/Time: 12-19-03 08:15	Date/Time: 12-19-03	
	Sealed Condition (circle one) YES / NO	
Relinquished by:	Received by: <i>[Signature]</i>	
Date/Time:	Date/Time: 12/22 @ 10:00 AM	
	Sealed Condition (circle one) YES / NO	

DEC. 29. 2003 4:14PM

R J LEE GROUP INC

NO. 0519 P. 10/14

Fax Results to Clay Guzi (707) 444-8330

 WINZLER & KELLY CONSULTING ENGINEERS 633 Third Street Eureka, California 95501 707.443.8326 fax 707.444.8330 www.w-and-k.com eka@w-and-k.com	Phone: (707) 443-8326	Date: 12-17-03
	Circle the Method and Turnaround Time (3 day) Hr/12-hr/24-hr/48-hr/Ext	Results Needed: 12-26-03
	PLM: Standard/Point Count	Gravimetry Prep
CONTACT: Clay Guzi	Job# 03166404.030	Site Forum

AOC 312347

BULK SAMPLE COLLECTION

AOC 312347

Sample Number	Sample Description	Location	Material Type	Material Condition	Friable
106	J.C./SR	Interior, Forum triangular room at southeast corner FM 103	MM	ND	F
107	"	"	MM	ND	F
108	"	"	MM	ND	F
109	White fabric wrap & TSI, 3" Ø Elbow	Interior, Forum Theatre backstage piping off radiator	TSI	ND	F
110	White fabric wrap & TSI, spun-glass 3" Ø Horizontal	"	TSI	ND	F
111	White fabric wrap & TSI, 3" Ø Elbow	"	TSI	D	F
112	White fabric & TSI-spun-glass 3" Ø Vertical	"	TSI	ND	F
113	Caulking, Black on Ducting	Exterior, Easternmost Roof West side	MM	ND	NF
114	"	" East side	MM	ND	NF
115	tan fabric cover & TSI-spun-glass 3" Ø Horiz.	" - attic - NE corner	MM/TSI	D	F
116	Duct Patching, White	" - attic - under elevator	MM	ND	NF
117	Duct Connector, Grey	Exterior, Westernmost Roof East side	MM	ND	NF
118	End Sealant, Grey	Exterior, Westernmost Roof access hatch	MM	ND	NF
119	Silver paper wrap & TSI-spun-glass, 3/4" Ø horiz. of roof	"	MM/TSI	ND	F
120	Duct Connector, Grey	Exterior, Westernmost Roof West of access hatch	MM	ND	NF

Damage Categories: Not Damaged = ND
 Damaged = DG
 Significantly Damaged = SD
 Potential Damage = PD
 Potentially Significant = PSD

Material Type: Thermal System Insulation = TSI
 Surfacing Material = SM
 Miscellaneous Material = MM


Sampled by: Clay Guzi	Date: 12-17-03	Time:
Relinquished by: Guzi	Received by: Fed-Ex	
Date/Time: 12-19-03 88:15	Date/Time: 12-19-03	Sealed Condition (circle one) YES / NO
Relinquished by:	Received by: [Signature]	Date/Time: 12/22 @ 10:00
Date/Time:	Date/Time:	Sealed Condition (circle one) YES / NO

DEC. 29. 2003 1:35PM

R J LEE GROUP INC

NO. 0503 P. 4/4

Fax Results to Clay Guzi (707) 444-8330

 WINZLER & KELLY CONSULTING ENGINEERS 633 Third Street Eureka, California 95501 707.443.8326 fax 707.444.8330 www.w-and-k.com eka@w-and-k.com	Phone: (707) 443-8326	Date: 12-18-03
	Circle the Method and Turnaround Time (3) day Hr/12-hr/24-hr/48-hr/Ext PLM: Standard Point Count	Results Needed: 12-26-03
CONTACT: Clay Guzi	Job # 03166404.030	Site Applied Tech.

AOC 312348

BULK SAMPLE COLLECTION

Sample Number	Sample Description	Location	Material Type	Material Condition	Friable
Wk/1664-126	TSI - 3" Ø horiz. Into	AHic space in kitchen drea off car community deck	TSI	ND	F
127	White Patching on Road ducting off HVAC unit	" Small office "	MM	ND	NF
128	Silver Coating	Exterior, roof east of access hatch on 5" Ø Horiz	MM	D	NF
129	Silver Coating w/ fibrous backing	" 1" Ø Horiz "	MM	D	NF
130	Silver Coating	" 3/8" Ø Horiz "	MM	D	NF
131	loose Debris - white	Exterior roof west wing, northeast AHic	MM	SD	F
132	White Patching on Puctin	" "	MM	ND	NF
133	Joint Taping, white - Painted Green	Exterior roof central portion north side	MM	ND	NF
134	Mastic, Black	Exterior roof east wing, north side on 1" Ø Horiz.	MM	ND	NF


Damage Categories: Not Damaged = ND
 Damaged = DG
 Significantly Damaged = SD
 Potential Damage = PD
 Potentially Significant = PSD

Material Type: Thermal System Insulation = TSI
 Surfacing Material = SM
 Miscellaneous Material = MM

Sampled by: Clay Guzi	Date: 12-18-03	Time:
Relinquished by: <i>CG</i>	Received by: <i>Fed-Ex</i>	Date/Time: 12-19-03
Date/Time: 12-19-03 08:15	Sealed Condition (circle one) YES / NO	
Relinquished by:	Received by: <i>[Signature]</i>	Date/Time: 12/22 @ 10:00
Date/Time:	Sealed Condition (circle one) YES / NO	

APPENDIX B
Sampling Location Maps

1000-07
Fax Results to Clay Guzi (707) 444-8330

 WINZLER & KELLY CONSULTING ENGINEERS 635 Third Street Eureka, California 95501 707.443.8326 fax 707.444.8330 www.w-and-k.com eka@w-and-k.com	Phone: (707) 443-8326	Date: 1-7-03
	Circle the Method and Turnaround Time	
	8-hr. 8-hr. 12-hr. 24-hr. 48-hr. Ext PLM; Standard/Point Count	Results Needed: 1-8-03
CONTACT: Clay Guzi	Job # 03166404.030	Site HV-5/Gym

BULK SAMPLE COLLECTION

Sample Number	Sample Description	Location	Material Type	Material Condition	Friable
wx11664-17-0	Duct fabric, white	HV-5 Mech. Rm., north side	MM	ND	F
18-0	TSI - spun glass on ducting under fabric	"	TSI	ND	F
19-0	Duct fabric, white	"	MM	ND	F
20-0	TSI - spun glass on ducting under fabric	"	TSI	ND	F
21-0	Mastic, yellow & Duct connector, black	"	MM	ND	F
22-0	"	"	MM	ND	F

Damage Categories: Not Damaged = ND
 Damaged = DG
 Significantly Damaged = SD
 Potential Damage = PD
 Potentially Significant = PSD

Material Type: Thermal System Insulation = TSI
 Surfacing Material = SM
 Miscellaneous Material = MM

Sampled by: Clay Guzi	Date: 1-7-03	Time:
Relinquished by: <i>CG</i>	Received by: Fed-Ex	
Date/Time: 1-8-03	Date/Time: 1-8-03	
	Sealed Condition (circle one) YES / NO	
Relinquished by:	Received by: <i>E. Guzi</i>	Date/Time: 1/9/04 10:45 am
Date/Time:	Date/Time:	
	Sealed Condition (circle one) YES / NO	

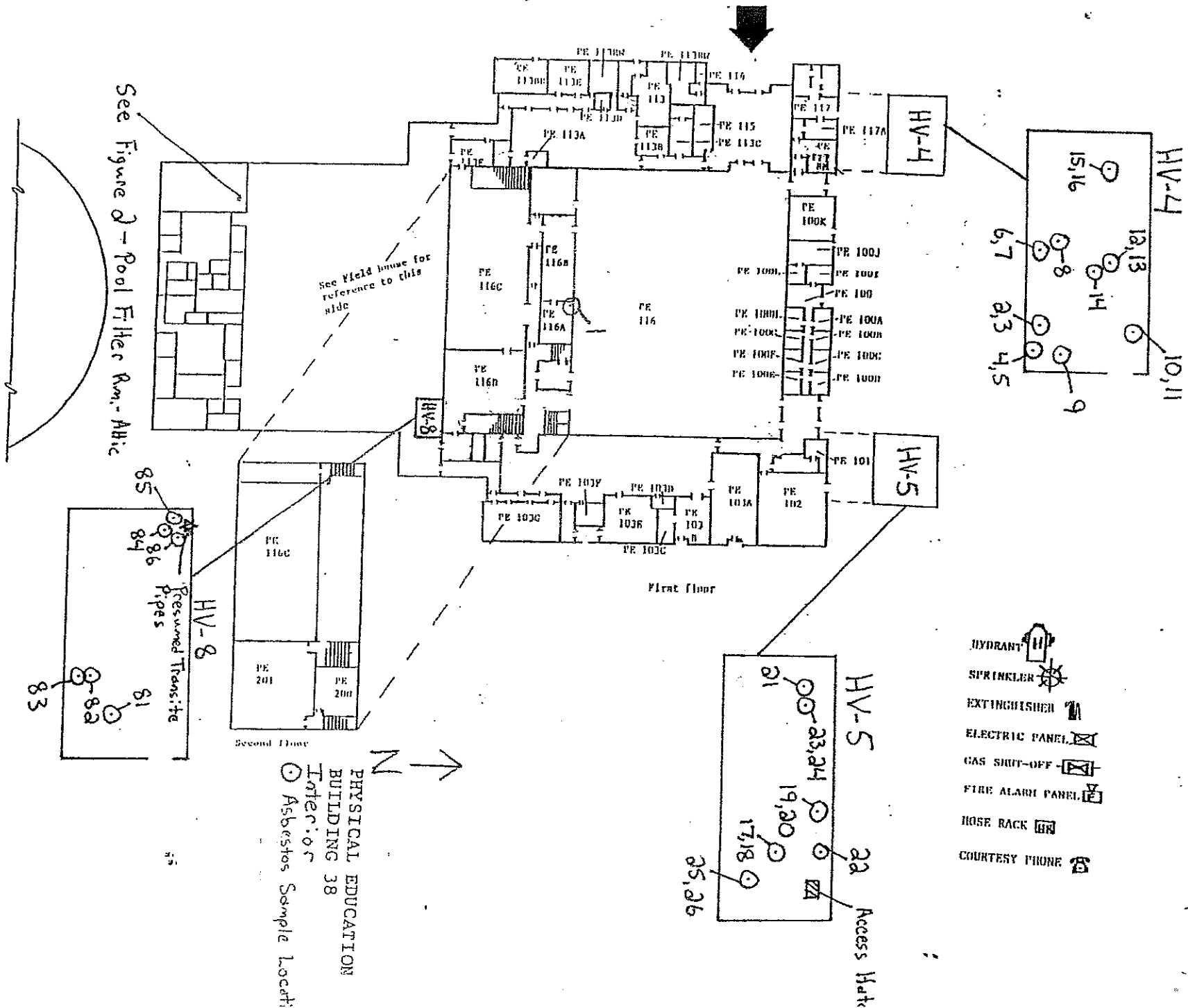
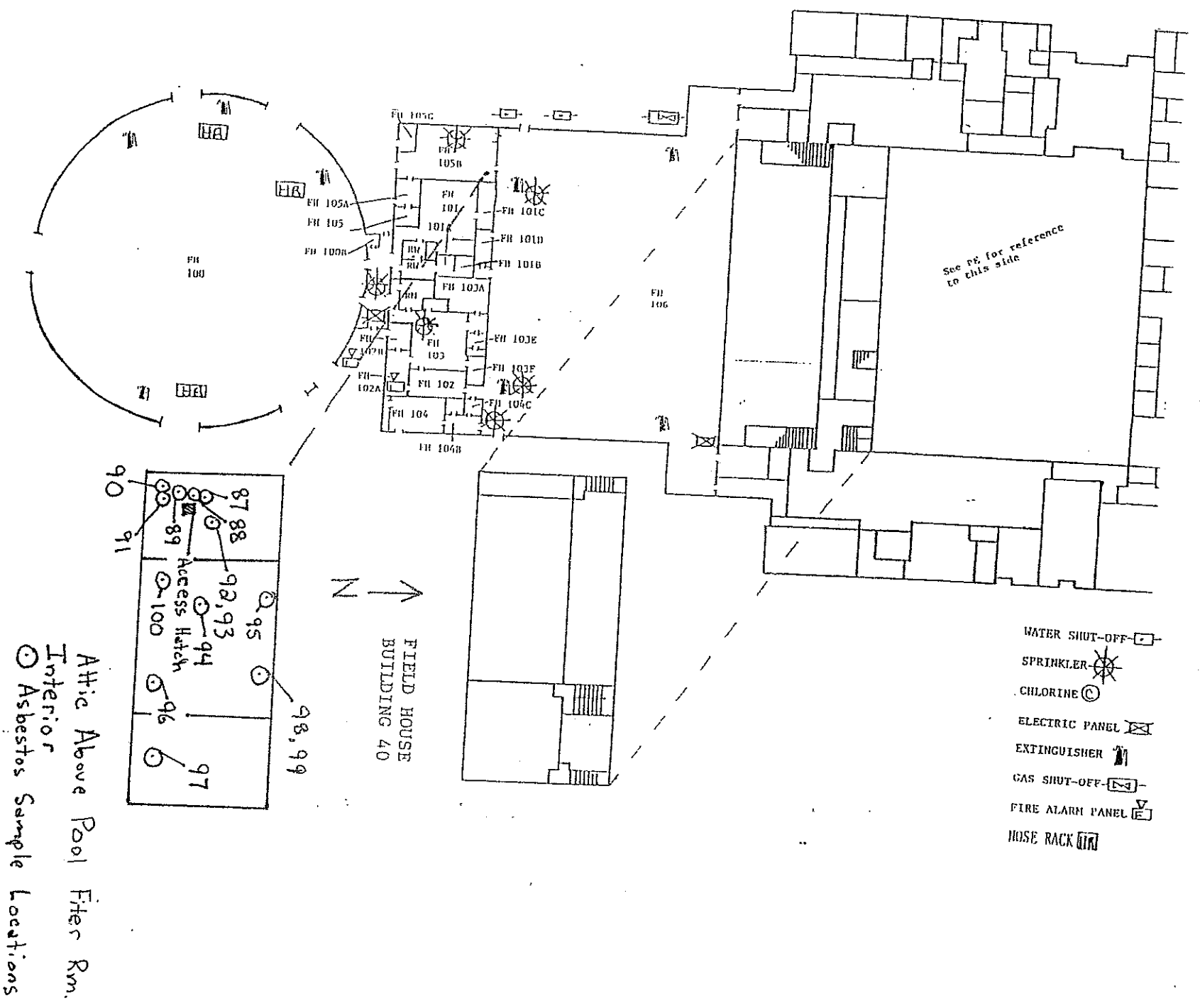
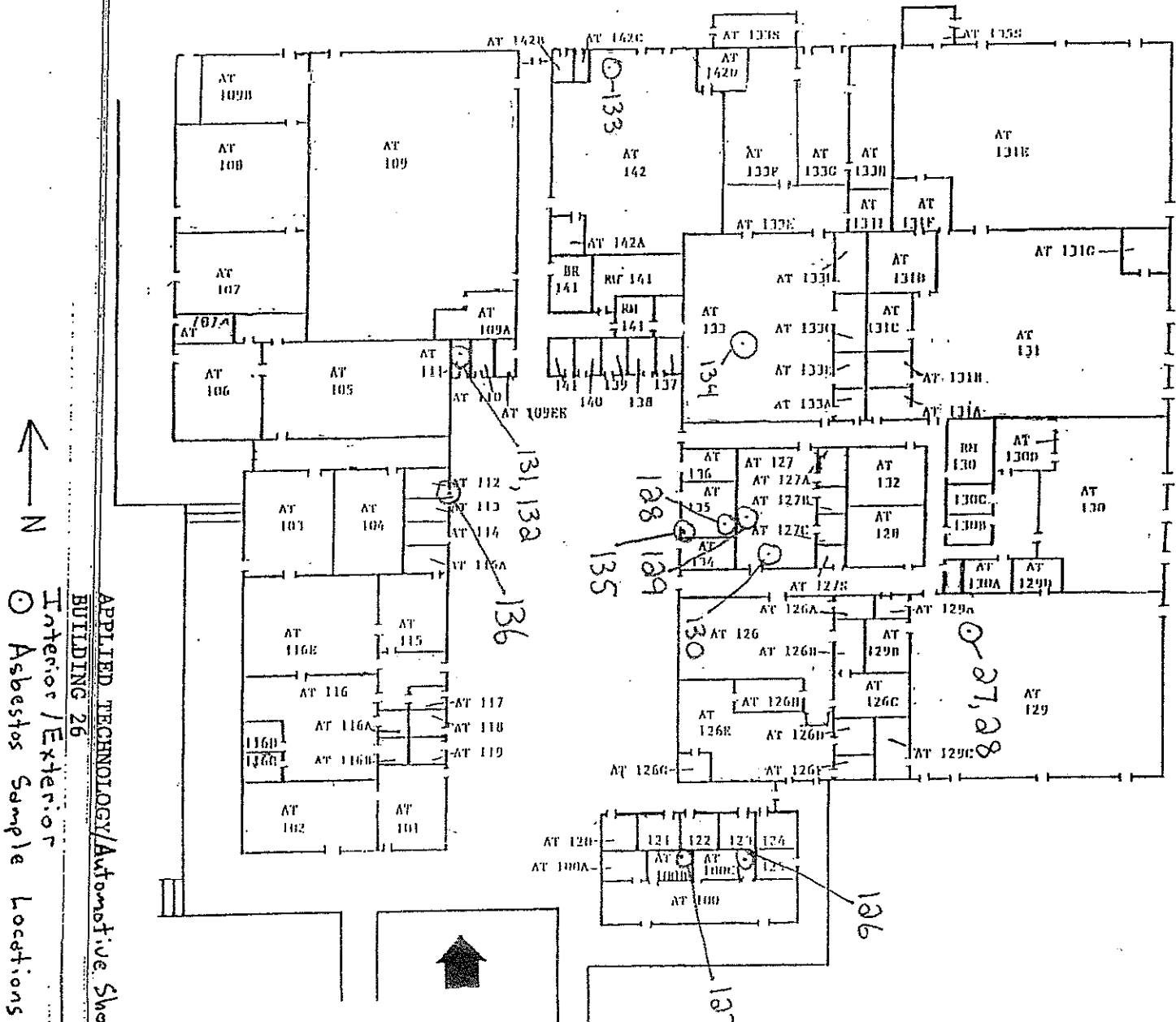


Figure 1



Attic Above Pool Filter Rm.
 Inferior
 Asbestos Sample Locations

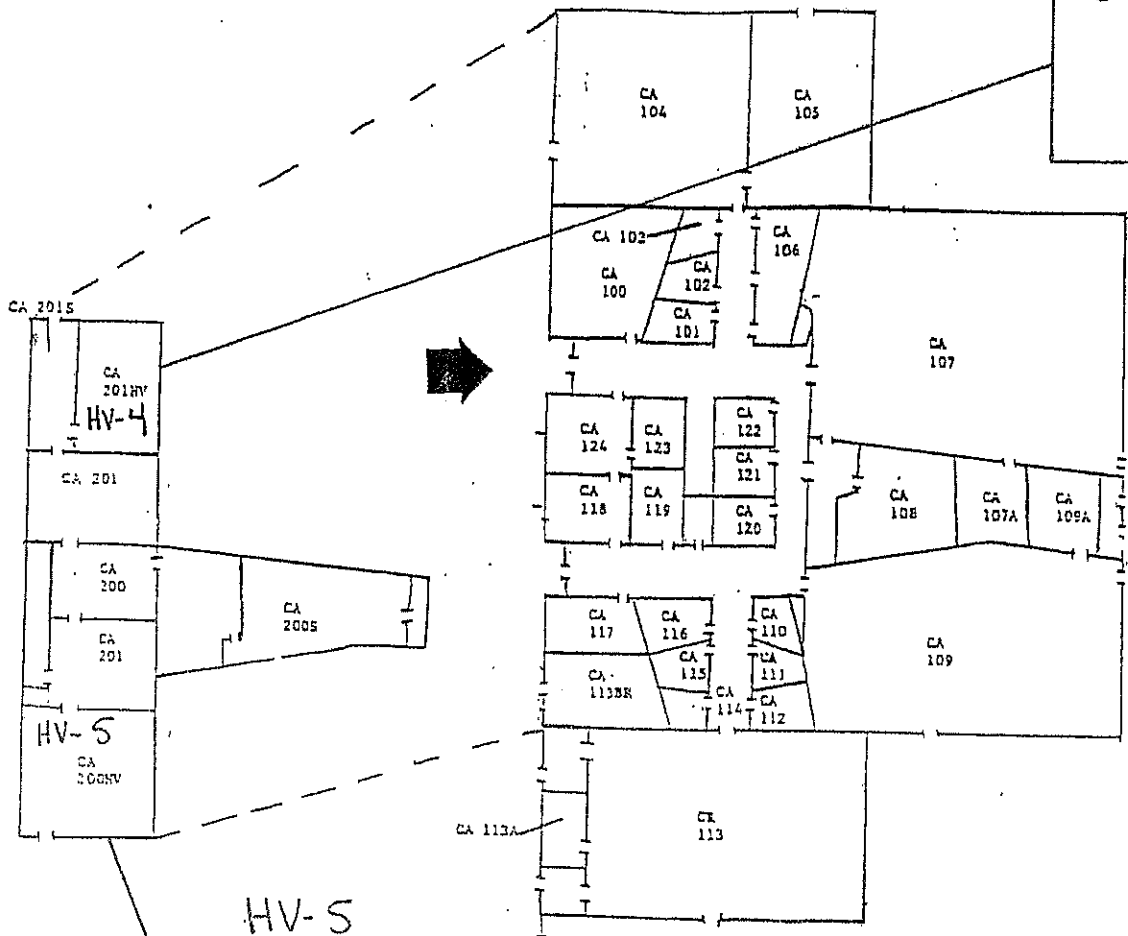
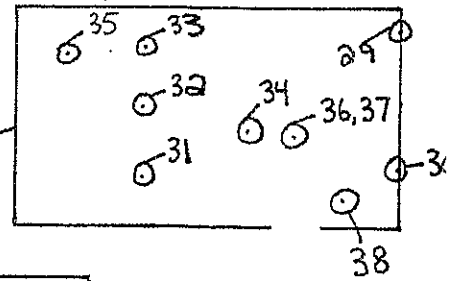
Figure 2



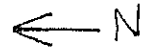
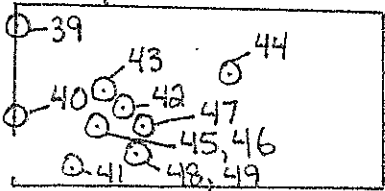
APPLIED TECHNOLOGY/Automotive Shop
 BUILDING 25
 Interior / Exterior
 ○ Asbestos Sample Locations

Figure 3

HV-4

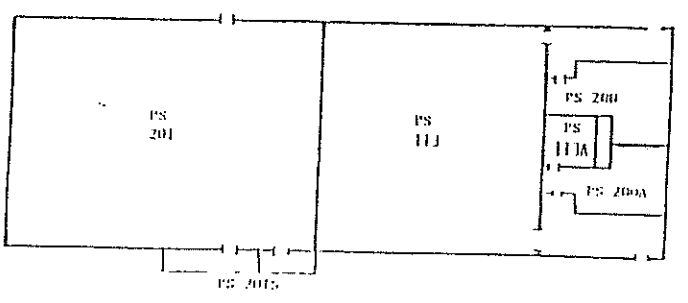
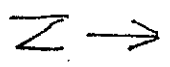
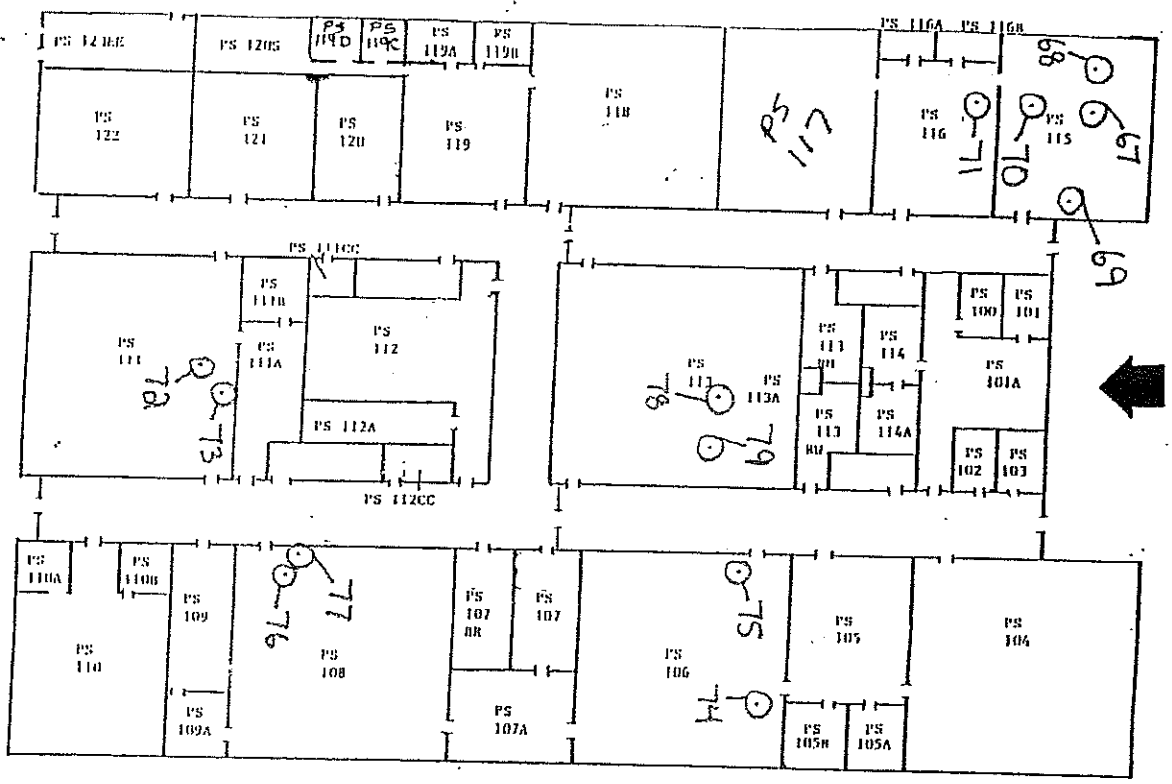


HV-5



CREATIVE ARTS
 BUILDING 02
 Interior
 ○ Asbestos Sample Locations

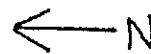
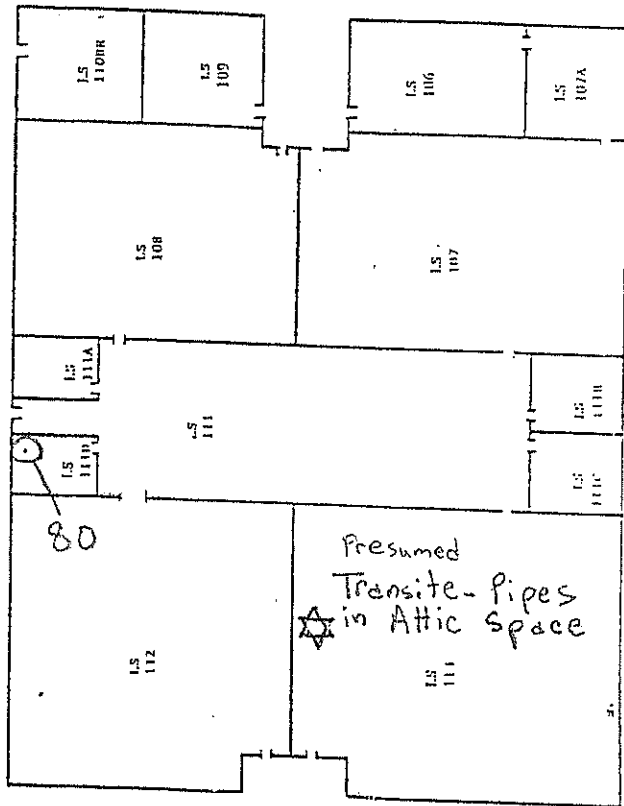
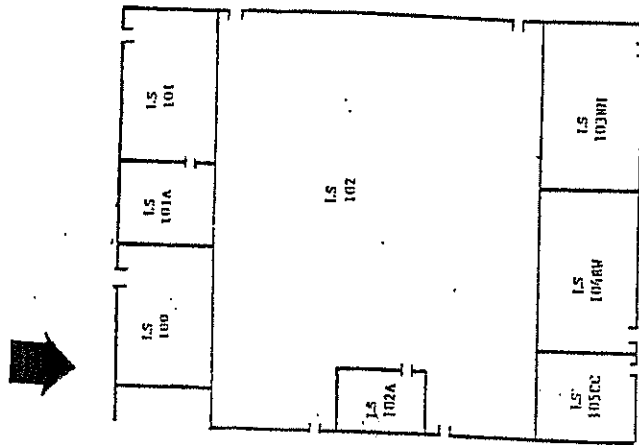
Figure 4



- WATER SHUT-OFF
- HYDRANT
- ELECTRIC PANEL
- EXTINGUISHER
- GAS SHUT-OFF

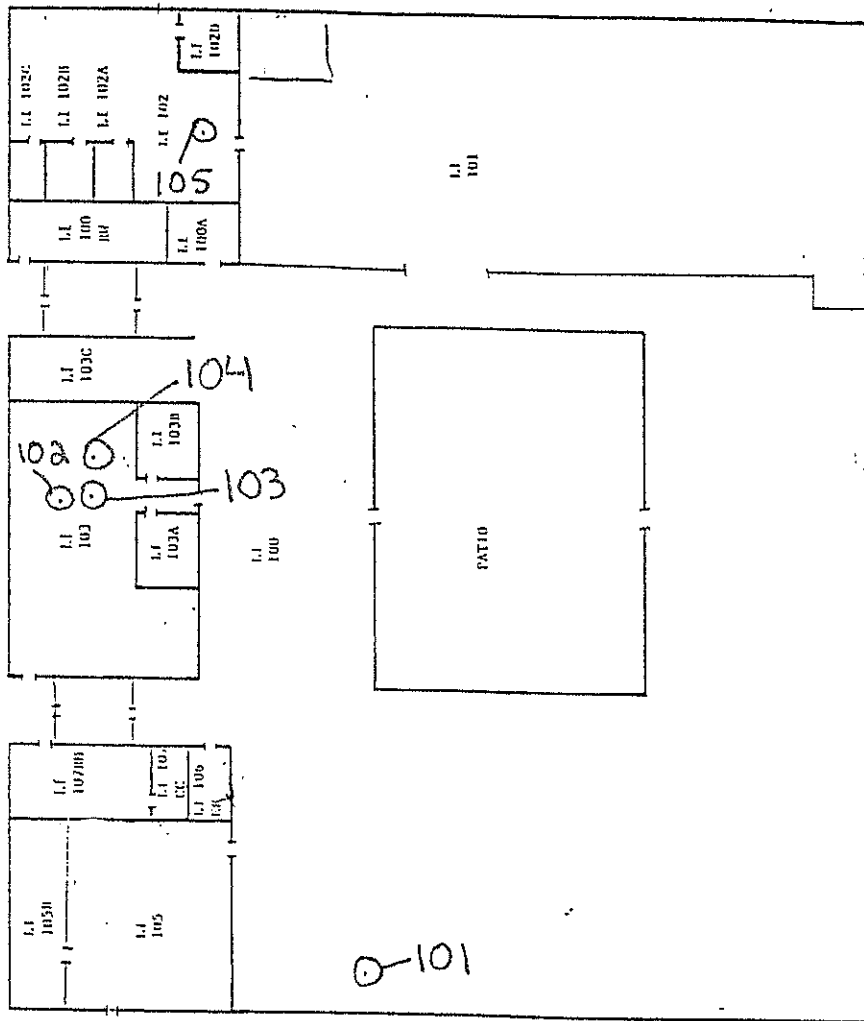
PHYSICAL SCIENCE
 BUILDING 10
 Exterior
 ○ Asbestos Sample Location

Figure 6



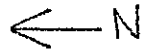
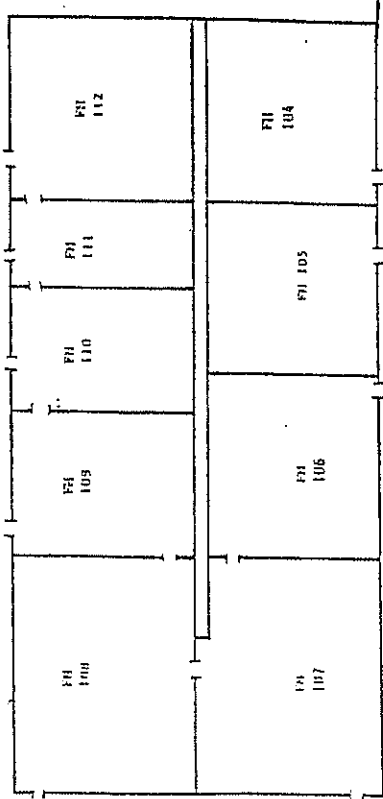
LIFE SCIENCE
 BUILDING 12
 Exterior
 ○ Asbestos Sample Locati

Figure 7



← N
 LIBRARY
 BUILDING 14
 Exterior
 ○ Asbestos Sample Location

Figure 8



FORUM
BUILDING 16
Interior
○ Asbestos Sample Locations

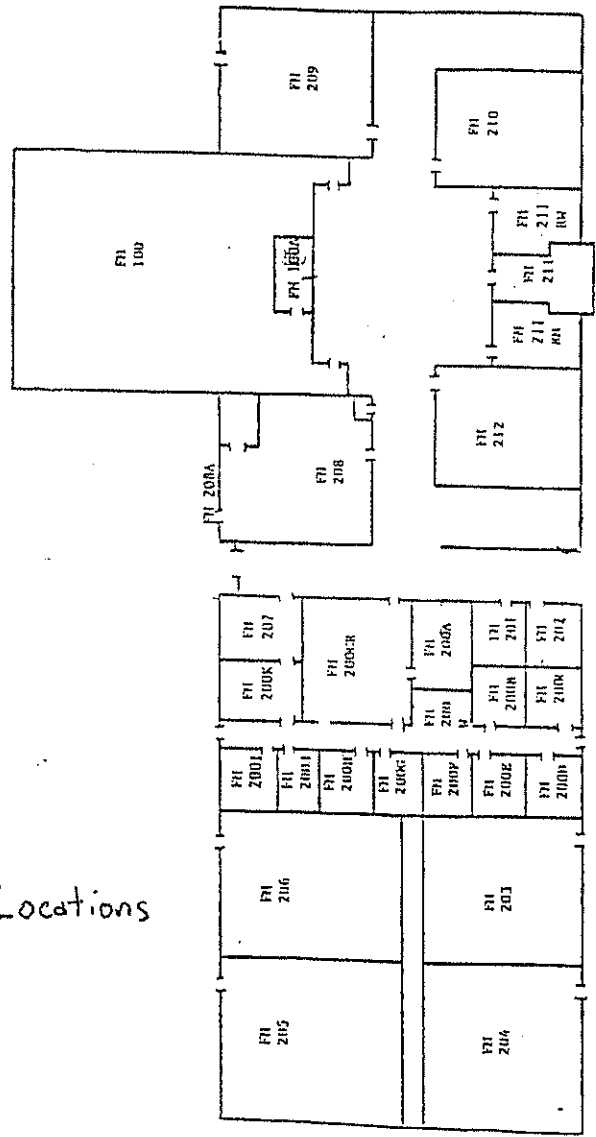
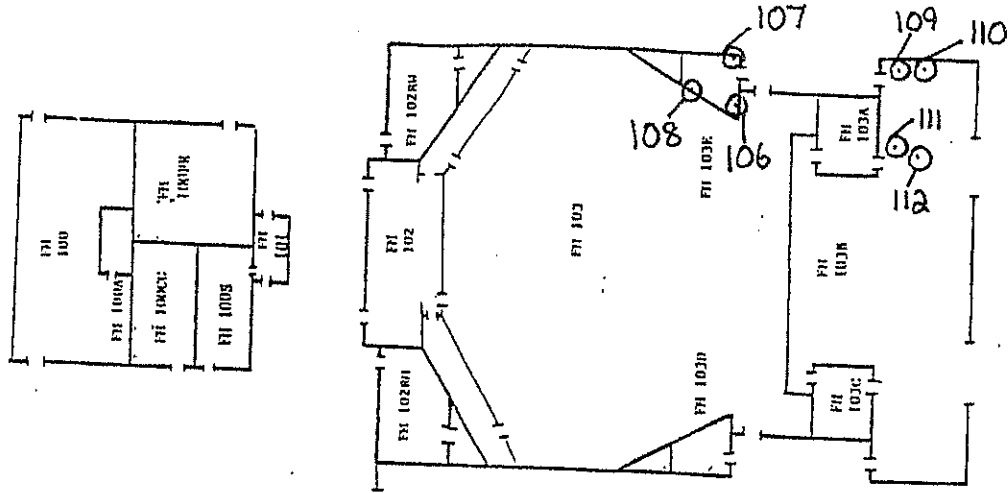
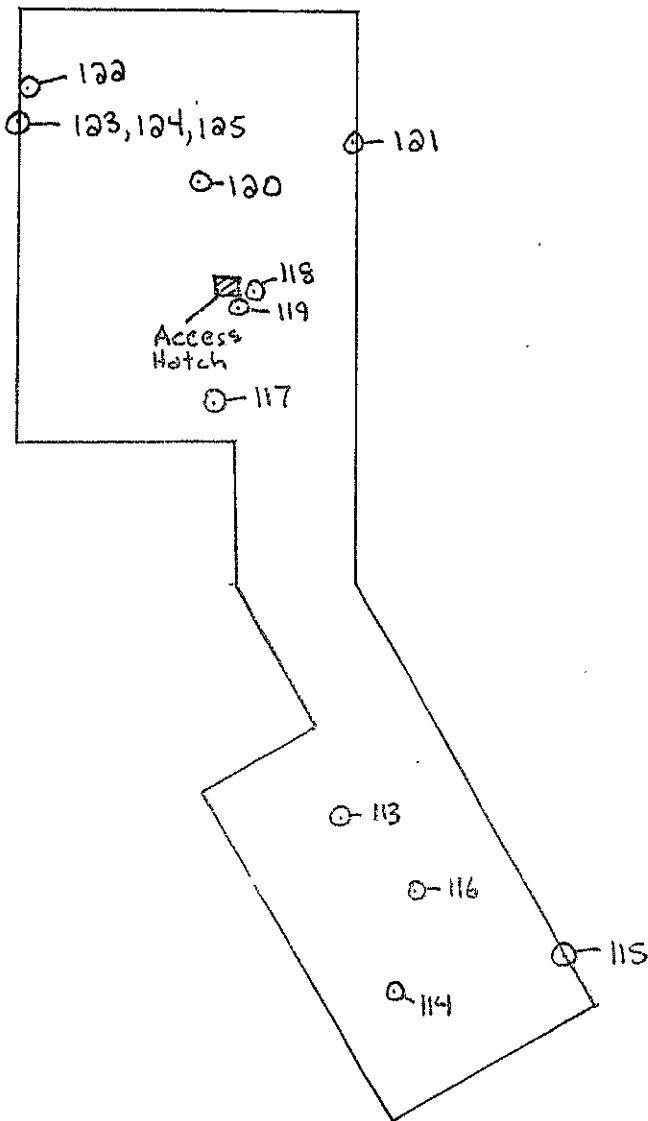


Figure 9



By _____ Date _____ Client _____ Sheet No. _____ of _____

Subject _____ Job No. _____



N →

Forum
Exterior
○ Asbestos Sample Locations

Figure 10

