

ASBESTOS RENOVATION SURVEY

**VA CANTEEN RELOCATION PROJECT
VA SIERRA NV HEALTH CARE SYSTEM
BUILDING 1 – GROUND FLOOR
1000 LOCUST STREET
RENO, NEVADA**

Prepared for:

Van Woert Bigotti Architects
1400 South Virginia Street, Suite C
Reno, Nevada 89502

Converse Project No. 11-23705-01

August 15, 2011



Converse Consultants

Geotechnical Engineering, Environmental & Groundwater Science, Inspection & Testing Services

August 15, 2011

11-23705-01

Van Woert Bigotti Architects
1400 South Virginia Street, Suite C
Reno, Nevada 89502

Attention: Mr. John Tappan

Subject: Asbestos Renovation Survey
Ioannis A. Lougaris VA Medical Center
VA – Canteen Relocation
1000 Locust Street – Building 1
Reno, Nevada

Dear Mr. Tappan:

Converse Consultants (Converse) is pleased to submit the results of the asbestos renovation survey conducted at the above-referenced Property. Based on our understanding of the project, our scope of services consisted of a visual inspection, bulk sample collection of suspect asbestos-containing building materials (ACBMs), laboratory analysis, and the generation of this report. The purpose of this asbestos renovation survey was to identify accessible friable and non-friable ACBMs that may require abatement prior to the planned renovation of the structure. The construction scope of work, as described by the client is to consist of, but not be limited to, the removal of interior walls, ceilings and flooring materials for the purpose of relocating the VA Canteen. The survey was performed in general accordance with our proposal dated June 11, 2011 and your written authorization to proceed on July 20, 2011.

The suspect ACBMs identified and sampled during the course of our investigation consisted of:

- Base Cove Mastic (various types)

4840 Mill Street, Suite 5
Reno, Nevada 89502
Telephone (775) 856-3833 ♦ Fax (775) 856-3513

4708 Roseville Road, Suite 114
North Highlands, California 95660
Telephone (916) 331-5444 ♦ Fax (916) 331-6444

- Joint Taping Compound
- Drywall
- Skim Coat
- Plaster
- Carpet Mastic (various types)
- 12" x 12" Floor Tile (various types)
- Green 9" x 9" Floor Tile
- Black Floor Tile Mastic
- Gold Floor Tile Mastic
- 2' x 4' Acoustical Ceiling Tile
- Exterior Stucco

On the basis of the laboratory analysis and our survey four ACMs were detected/identified to be present in regards to the structure. These materials consisted of the following:

- Pipe Run and Fitting Insulation (TSI)
- Green 9" x 9" Floor Tile
- Tan Floor Tile
- Black Floor Tile Mastic

It is the opinion of Converse, based on our understanding of the NESHAP regulation, that the ACMs identified will require abatement by a certified Nevada licensed asbestos abatement contractor, prior to the renovation process, if they are to be disturbed, in order to comply with Federal, State and County regulations. It may also be necessary to perform third party air quality sampling prior to, during and following the removal activities to comply with Nevada OSHES and Washoe County District Health Department – Air Quality Management Division (WCDHD-AQMD) regulations.

Information regarding the materials collected/analyzed is provided in the following report.

Van Woert Bigotti Architects
Project No.: 11-23705-01
August 15, 2011
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Thank you for the opportunity to be of service. Please do not hesitate to call our office should you have any questions or comments regarding this report, or if you require further assistance.

Respectfully submitted,

CONVERSE CONSULTANTS

A handwritten signature in blue ink, appearing to read "John W. Petersen", is written over a light blue circular stamp that contains the word "CONVERSE" in a circular arrangement.

John W. Petersen
Sr. Project Manager

Enclosure

ASBESTOS RENOVATION SURVEY

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SURVEY

On August 1st and 2nd, 2011 Converse Consultants (Converse) conducted a visual and sampling survey of the future VA Canteen Relocation Area on the Ground Floor of Building 1 at the VA Sierra NV Health Care System located at 1000 Locust Street in Reno, Nevada to check for the presence of asbestos-containing building materials (ACBMs). The purpose of this asbestos renovation survey was to identify accessible friable and non-friable ACBMs that may require abatement prior to the planned renovation of the structure. The construction scope of work, as described by the client is to consist of, but not be limited to, the removal of interior walls, ceilings and flooring materials for the purpose of relocating the VA Canteen. The survey was performed in general accordance with our proposal dated June 11, 2011 and your written authorization to proceed on July 20, 2011.

This evaluation consisted of the inspection and sampling of suspect ACBMs which may require remediation in regard to the project. The interior wall finishes consisted of skimcoat/plaster and/or taped/un-textured drywall. The ceiling finishes consisted of skimcoat/plaster, t-bar grid ceiling, 1'x 1' glued ceiling tile and/or taped/un-textured drywall. The floor finishes consisted of glued carpet, 9" x 9" floor tile/mastic, various 12" x 12" floor tile/mastic, sheet floor covering, ceramic tile and/or bare concrete. In regard to the plumbing pipe runs and fittings fiberglass and/or thermal system insulation (TSI) was identified.

According to the EPA's definition, friable asbestos is considered hazardous and refers to materials which can be crushed, pulverized, or reduced to powder by hand pressure when dry. Non-friable asbestos can be rendered friable by such actions as sanding, sawing, drilling, or breaking into pieces. This asbestos renovation survey generally followed current "National Emission Standards for Hazardous Air Pollutants (NESHAPS)" building inspection guidelines.

METHODOLOGY

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

Following the visual portion of the survey, a total of twenty-four (24) bulk samples were collected from areas representing the homogeneous use of suspect building materials. A summary of these samples is presented on the Survey Data Sheet in Appendix A.

In general, bulk samples were obtained by (1) adequately wetting the sample area with a water and surfactant mixture, and (2) placing bulk pieces of the building materials into

labeled plastic bags. Where possible, bulk samples were obtained to the depth of the affected area. Bulk samples were transferred to an analytical laboratory with continuous chain-of-custody documentation.

ASBESTOS BULK SAMPLE LABORATORY TESTING

The 24 bulk samples collected from the Property of suspect homogeneous materials were submitted to the Converse asbestos lab located in Reno, Nevada for analysis by Polarized Light Microscopy (PLM). The Converse asbestos lab is accredited by the U.S. Department of Commerce, National Institute of Standards and Technology (NIST), under the National Voluntary Laboratory Accreditation Program (NVLAP) for bulk asbestos analysis. For quality assurance purposes ten percent (10%) of all samples received are subjected to duplicate, replicate or round-robin reanalysis. Per regulations, all layers of a sample must be analyzed as a separate material. Laboratory analytical reports for these samples are presented in Appendix B.

REGULATORY OVERVIEW FOR ASBESTOS

Current State and Federal standards define an asbestos-containing material as “any material containing asbestos in excess of one percent by weight.” It is noted that Federal OSHA regulates worker exposure to airborne asbestos fibers with Permissible Exposure Limits (PELs), and requires specific work practices and procedures, per 29 CFR1926.1101, when disturbing materials containing asbestos; State of Nevada protects building occupants from airborne asbestos exposure; and Washoe County District Health Department - Air Quality Management District (WCDHD-AQMD) does not allow any airborne asbestos fiber generation.

There are a variety of regulations that relate to ACMs. These regulations govern various activities such as inspection, assessment and abatement. The following is a description of each regulation and their impact on ACMs.

- Asbestos Hazard Emergency Response Act (AHERA)

AHERA (40 CFR Part 763) as implemented by the EPA primarily pertains to the assessment and management of ACMs in K-12 non-profit schools. However, many of the procedures, training requirements, and certifications defined by AHERA have become the industry standard for all other facilities. For this survey, AHERA protocols were utilized as a guideline in the identification, assessment and sampling of suspect asbestos-containing building materials identified in regards to the structures evaluated.

- National Emission Standards for Hazardous Air Pollutants (NESHAP)

NESHAP (40 CFR Part 61) is an asbestos standard that protects the general public from asbestos exposure caused by renovation and/or demolition activities.

NESHAP requires surveying for suspect asbestos-containing building materials, notifying of intent to renovate or demolish, removal of regulated ACM (RACM) prior to renovation and/or demolition and proper handling of asbestos-containing wastes. A RACM is defined as the following:

- Any Friable ACM which is considered hazardous and refers to materials which can be crushed, pulverized, or reduced to powder by hand pressure.
- Category 1 Non-Friable ACMs such as floor tiles and asphalt roofing products which may become friable or will be subjected to sanding, grinding, cutting and/or abrading during demolition activities.
- Category II Non-Friable ACM such as transite pipe and/or siding that has a high probability of becoming friable during demolition activities.

NESHAP requires that demolition activities be conducted with no visible emissions using wet methods.

- **Asbestos Standard for the Construction Industry**

The Asbestos Standard for the Construction Industry (Federal OSHA – 29 CFR 1926.1101 regulates asbestos exposure in the workplace. This includes asbestos abatement workers, contractors and workers whose work environment contains asbestos-containing building materials.

In regard to abatement workers and Contractors the standard regulates how workers and the public are to be protected during removal; medical surveillance requirements for workers; detailed requirements to be followed during removal; and training requirements.

Federal OSHA regulates worker exposure to airborne asbestos fibers with PELs, and requires specific work practices and procedures, per 29 CFR 1926.1101 when disturbing materials containing asbestos. When the asbestos content is in excess of one percent, State and Federal OSHA regulations cover worker exposure to airborne asbestos fibers with Permissible Exposure Limits (PELs), and require specific work practices and procedures per 29 CFR 1926.1101 when ACM will be disturbed.

ASBESTOS SURVEY FINDINGS

Based on laboratory results and our survey, the following materials were found to contain in excess of one percent (>1%) asbestos by weight:

ASBESTOS CONTAINING MATERIAL

MATERIAL TYPE	PERCENTAGE ASBESTOS AND FRIABILITY	MATERIAL LOCATION	APPROXIMATE AREA (Square Feet)
Pipe Run Insulation (TSI)	20-55% Chrysotile 1% Amosite <1% Crocidotile Category I RACM	Appeared to be typical to various areas of pipe run insulation (TSI) located above ceilings and in wall cavities. It must be noted that this material was not tested due to previous positive testing. Also additional TSI may be present in wall cavities and pipe chases which were not accessible.	≈ 600 l.f.
Green 9" x 9" Floor Tile	1-3% Chrysotile Category I Non-Friable	Appeared to be typical to the flooring located in the entry to the area designated as 23 on the attached sample location diagram.	≈ 40 s.f.
Tan 12" x 12" Floor Tile	1-3% Chrysotile Category I Non-Friable	Appeared to be typical to the flooring located in the areas designated as 22, 24, 24A, 42, C8 and C9 on the attached sample location diagram.	≈ 730 s.f.
Black Floor Tile Mastic	5-20% Chrysotile Category II Non-Friable	Appeared to be typical to the flooring located in the areas designated as 22, 23, 24, 24A, 42, C8 and C9 on the attached sample location diagram.	≈ 770 s.f.

Note: EPA material classifications include: 1) Friable (F); 2) Non-friable (N); and 3) Non-Friable-potentially friable (N-PF) indicating materials which are currently non-friable will be made friable by standard renovation or demolition techniques.

Additional information regarding each material location and condition is found in the Survey Data Sheets in Appendix A.

CONCLUSIONS AND RECOMMENDATIONS

On the basis of the laboratory analysis and our survey six ACMs were detected/identified to be present within the structure. These materials consisted of the following:

- Approximately 600 linear feet (l.f.) of Pipe Run Insulation (TSI) and fittings which appeared to be typical to various areas of pipe run insulation (TSI) located above ceilings and in wall cavities.

It must be noted that this evaluation was non-destructive, due to occupancy of the structure, and that additional TSI may be present in wall cavities and pipe chases which were not accessible.

- Approximately 40 square feet (s.f.) of Green 9" x 9" Floor Tile which appeared to be typical to the flooring located in the area designated as 23 on the attached sample location diagram.
- Approximately 730 s.f. of Tan 12" x 12" Floor Tile which appeared to be typical to the flooring located in the areas designated as 22, 24, 24A, 42, C8 and C9 on the attached sample location diagram.
- Approximately 770 s.f. of Black Floor Tile Mastic which appeared to be typical to the areas designated 22, 23, 24, 24A, 42, C8 and C9 on the attached sample location diagram.

It is the opinion of Converse, based on our understanding of the NESHAP regulation, that the ACMs identified will require abatement by a certified Nevada licensed asbestos abatement contractor, prior to the renovation process, if they are to be disturbed, in order to comply with Federal, State and County regulations. It may also be necessary to perform third party air quality sampling prior to, during and following the removal activities to comply with Nevada OSHES, and WCDHD-AQMD regulations.

Regarding the removal of ACMs found at the subject site, the following steps are suggested to maintain regulatory compliance and minimize liability:

1. A qualified asbestos abatement contractor and workers licensed in the State of Nevada should perform any actions involving the removal of ACMs. Removal activities should conform to State, and Federal, and local laws, ordinances and regulations.
2. A qualified asbestos consultant licensed in the State of Nevada should be retained to assist in the abatement project and to perform air quality sampling during and after the removal activities.
3. Notification of the governing agencies (i.e. Nevada OSHES and WCDHD-AQMD) regulating the abatement of asbestos may be necessary and contact is advised to review the project scope of work prior to commencing any response action.

CLOSURE

This report is for the use of Van Woert Bigotti Architects as it applies to the Property listed above. Converse is not responsible for any claims or damages associated with interpretation of available information. This assessment should not be regarded as a guarantee that no further asbestos, beyond that which was suspected to be present (and sampled) during our investigation, is present at the Property. In addition, asbestos is usually not distributed uniformly throughout a material and Converse cannot guarantee that all areas sampled are exactly as represented throughout the entire

facility. Other suspect materials may be uncovered that were previously hidden during renovation or demolition. Additional samples of these materials should be collected and analyzed for asbestos if this occurs. It must also be noted that prior to any renovation process further sampling may be required by regulatory agencies. In the event that changes in the nature of the Property occur, or additional relevant information about the Property is brought to our attention, the recommendations contained in this assessment may not be valid unless these changes and additional relevant information are reviewed and the recommendations of this assessment are modified or verified in writing.

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

Respectfully submitted,

CONVERSE CONSULTANTS



Frank M. Reynolds III, Inspector
Nevada License No.: IJM-1248

JWP: FMR: jwp

Enclosure: Appendices A, B, C and D

Distribution: 3/Addressee

Reviewed and Approved by:



John W. Petersen
Sr. Project Manager
Nevada License No.: IJPM-0575

APPENDIX A
Survey Data Sheets

Converse Consultants

4840 Mill Street, Suite 5, Reno, Nevada 89502

SURVEY DATA

VAN WOGERT BIGOTTI

Inspectors: FRANK M. REYNOLDS III		Project Name: VA CANTEN RELOCATION		Project Number: 11-23705-01		Date Sampled: 8/1/11	
Contact: JOHN W. REITERSEN		Project Location: BUILDING 1 - GROUND FLOOR		Analysis Type: (Please Circle) <input checked="" type="radio"/> Asbestos <input type="radio"/> Lead <input type="radio"/> Other		Instructions:	
Phone #: (775) 856-3833		Client/Contact: MR JOHN TAPPAN		Requested: (2 Days)		Test to First Positive: Yes No	
Turn-A-Round Time: (Circle) RUSH		24 Hours		Requested: (Verbal)		Fax	

LAB #	SAMPLE #	MATERIAL DESCRIPTION	SAMPLE LOCATION	LOCATIONS OF MATERIAL	QNTY	COND	FRIABLE YES/NO	COMMENTS (DEBRIS, EXTENT OF DAMAGE)	ASBESTOS %
191993	W-01	PLASTER	WEST WALL AREA 40	TYPICAL TO PASTER WALLS & CEILINGS	N/A	D	N		N/A
191994	W-02	PLASTER	EAST WALL AREA 24		N/A	D	N		
191995	C-03	PLASTER	CEILING AREA 4A		N/A	D	N		
191996	W-04	JC/DW	NORTH WALL AREA 40	TYPICAL TO DRYWALL WALLS & CEILINGS	N/A	G	N		
191997	W-05	TAN COM/JC/DW	NORTH WALL AREA 40A		N/A	G	N		
191998	W-06	JC/DW	SOUTH WALL AREA 44		N/A	G	N		
191999	W-07	TAN COM/JC/DW	SOUTH WALL AREA 45		N/A	G	N		
192000	F-08	TAN w/BROWN 12x12 FLOOR TILE/GOLD MASTIC	EAST SIDE AREA 43	AREAS	80 SF	G	N		N.D.
192001	F-09	TAN 12x12 FLOOR TILE/BASIC MASTIC	EAST SIDE AREA 42	AREAS 23.42, 28, 29	8430.5 SF	G	N		10-20% Chrysotile Asbestos B. Mastie
192002	F-10	TAN w/BROWN 12x12 FLOOR TILE/BLACK MASTIC	WEST SIDE AREA 22			G	N		> 1-3% Chrys - tile 5-15% Chrys - B Mastie

MATERIAL		CONDITION		UNITS		ASBESTOS %	
PFI - Pipe Fitting Insulation	VT - Vinyl Tile	G - Good (No Maintenance is required currently)		LF - Linear Feet		A	Amosite Asbestos
PRI - Pipe Run Insulation	M - Mastic	D - Damaged (Some repair needed)		SF - Square Feet		C	Chrysotile Asbestos
DI - Duct Insulation	CBM - Cove Base Mastic	SD - Significantly Damaged (Repair or replace ASAP)		CF - Cubic Feet		NDA	No Asbestos Detected
TI - Tank Insulation	AT - Acoustic Tile					Assumed	ACM
EJ - Expansion Joint	SA - Spray Acoustic						No Samples Taken
BI - Boiler Insulation	W - Wall						
	P - Plaster						
	JC - Joint Compound						

Relinquished By: [Signature]	Relinquished By: _____
Date/Time: _____	Date/Time: _____
Received By: _____	Received By: _____

Converse Consultants

4840 Mill Street, Suite 5, Reno, Nevada 89502

SURVEY DATA

VAN WOGERT BIGOTTI

Page 2 of 3
(775) 856-3833 FAX (775) 856-3513

Inspectors: FRANK M. REYNOLDS III		Project Name: VA CANTEN RELOCATION		Project Number: 14-23705-G1		Date Sampled: 8/1/11 & 8/2/11	
Contact: JOHN W. PETERSEN		Project Location: BUILDING 1 - GROUND FLOOR		Analysis Type: (Please Circle) Asbestos Lead Other		Instructions:	
Phone #: (775) 856-3833		Client/Contact: MR JOHN TAPPAN		Requested: 2 Days		Test to First Positive: Yes No	
Turn-A-Round Time: (Circle) RUSH		24 Hours		Verbal:			

LAB #	SAMPLE #	MATERIAL DESCRIPTION	SAMPLE LOCATION	LOCATIONS OF MATERIAL	QNTY	COND	FRIABLE YES/NO	COMMENTS (DEBRIS, EXTENT OF DAMAGE)	ASBESTOS %
192003	F-11	GOLD CARPET MASTIC/ FLOOR TILE/BLASIC MASTIC	EAST SIDE AREA 21A	AREAS 24 AND 24A	~300 SF	G	N		5-15% Chrys. Black Mastic
192004	F-12	9x9 GREEN FLOOR TILE/ BLASIC MASTIC	EAST SIDE AREA 23	AREA 23	~40 SF	G	N		>1-3% Chrys - tile
192005	F-13	GOLD CARPET MASTIC/WHITE w/ GRAY FLOOR TILE/COLD MASTIC	EAST SIDE AREA 41	AREAS 44 & 144A	~280 SF	G	N		10-20% Chrys - R. Mastic
192006	F-14	WHITE w/ GRAY 12x12 FLOOR TILE/ GOLD MASTIC/ FILLER	EAST SIDE AREA 45	AREA 45	~115 SF	G	N		ND
192007	CM-15	GOLD & RED CARPET MASTIC	EAST SIDE AREA 40A	AREA 40A	~180 SF	G	N		
192008	CT-16	2x4 CEILING TILE	AREA 44	AREAS 40A, 41, 42, 43 43B, 44, 144A, 45, 22, 23, 24, 24A	N/A	G	Y		
192009	CT-17	2x4 CEILING TILE	AREA 45		N/A	G	Y		
192010	CT-18	2x4 CEILING TILE	AREA 41		N/A	G	Y		
192011	WP-19	WINDOW PUTTY	AREA 40 NORTH WINDOW	ORIGINAL WINDOWS	N/A	D	N		
192012	WP-20	WINDOW PUTTY	AREA 40 NORTH WINDOW		N/A	D	N		ND

MATERIAL		CONDITION	UNITS	ASBESTOS %
PFI - Pipe Fitting Insulation PRI - Pipe Run Insulation DI - Duct Insulation TI - Tank Insulation EJ - Expansion Joint BI - Boiler Insulation	VT - Vinyl Tile M - Mastic CBM - Cove Base Mastic AT - Acoustic Tile SA - Spray Acoustic W - Wall P - Plaster	G - Good (No Maintenance is required currently) D - Damaged (Some repair needed) SD - Significantly Damaged (Repair or replace ASAP)	LF - Linear Feet SF - Square Feet CF - Cubic Feet	A - Amosite Asbestos C - Chrysotile Asbestos NDA - No Asbestos Detected Assumed ACM - No Samples Taken

Relinquished By: <u>[Signature]</u> Date/Time: <u>8/2/11</u> Received By: <u>[Signature]</u>	Relinquished By: <u>[Signature]</u> Date/Time: <u>8/2/11</u> Received By: <u>[Signature]</u>	Relinquished By: <u>[Signature]</u> Date/Time: <u>8/2/11</u> Received By: <u>[Signature]</u>
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Converse Consultants

4840 Mill Street, Suite 5, Reno, Nevada 89502

SURVEY DATA

VANWOGERT BIGOTTI

(775) 856-3833 FAX (775) 856-3513

Inspectors: FRANK M. REYNOLDS III		Project Name: VA CANTEEN RELOCATION		Project Number: 11-23705-01		Date Sampled: 8/1/11 & 8/2/11	
Contact: JOHAN W. PETERSEN		Project Location: BUILDING 1 - GROUND FLOOR		Analysis Type: (Please Circle) <u>Asbestos</u> <u>Bulk</u> <u>Air</u> <u>Air</u>		Instructions:	
Phone #: (775) 856-3833		Client/Contact: MR JOHN TAPPAN		Requested: <u>Verbal</u>		Test to First Positive: Yes No	
Turn-A-Round Time: (Circle) RUSH		24 Hours		Fax			

LAB #	SAMPLE #	MATERIAL DESCRIPTION	SAMPLE LOCATION	LOCATIONS OF MATERIAL	QNTY	COND	FRIABLE YES/NO	COMMENTS (DEBRIS, EXTENT OF DAMAGE)	ASBESTOS %
192013	WP-21	WINDOW PUTTY	AREA 40A WINDOW	ORIGINAL WINDOW	N/A	D	N		N.D.
192014	EXT-W-22	STUCCO	SOUTH END BELOW RAISED CORRIDOR	TYPICAL TO COURTYARD STUCCO	N/A	G	N		
192015	EXT-W-23	STUCCO	CENTER BELOW RAISED CORRIDOR		N/A	G	N		
192016	EXT-W-24	STUCCO	NORTH END BELOW RAISED CORRIDOR		N/A	G	N		N.D.
6									
7									
8									
9									
10									

MATERIAL	CONDITION	UNITS	ASBESTOS %
PFI - Pipe Fitting Insulation PRI - Pipe Run Insulation DI - Duct Insulation TI - Tank Insulation EJ - Expansion Joint BI - Boiler Insulation VT - Vinyl Tile M - Mastic CBM - Cove Base Mastic AT - Acoustic Tile SA - Spray Acoustic W - Wall P - Plaster GA - Gasket D - Debris TSI - Thermal System Insulation R - Roof DW - Drywall JC - Joint Compound	G - Good (No Maintenance is required currently) D - Damaged (Some repair needed) SD - Significantly Damaged (Repair or replace ASAP)	LF - Linear Feet SF - Square Feet CF - Cubic Feet	A - Amosite Asbestos C - Chrysotile Asbestos NDA - No Asbestos Detected ACM - Assumed No Samples Taken

Relinquished By: <u>[Signature]</u>	Relinquished By: <u>[Signature]</u>
Date/Time: <u>8/2/11</u>	Date/Time: <u>8/2/11</u>
Received By: <u>[Signature]</u>	Received By: <u>[Signature]</u>



Converse Consultants

Geotechnical Engineering, Environmental & Groundwater Science, Inspection & Testing Services

POLARIZED LIGHT MICROSCOPY ANALYSIS REPORT

Client: CONVERSE CONSULTANTS
4840 MILL STREET #5
RENO, NEVADA 89502
Contact: JOHN W. PETERSEN
Account: N/A
Project No.: 11-23705-01

Date Received: 08/02/11
Date Analyzed: 08/03/11
Date Reported: 08/03/11
Reported To: JOHN W. PETERSEN
Submitted By: HAND
Report No.: 71-191993
P.O. #: N/A

VAN WOERT BIGOTTI VA CANTEEN RELOCATION BUILDING 1 - GROUND FLOOR

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

Lab Manager, Dan R. Dolk

Analyst, Dan R. Dolk

RESULTS: LAB SAMPLE # LAB DESCRIPTION LOCATION	CLIENT SAMPLE #	PERCENT & TYPE OF ASBESTOS	PERCENT & TYPE OF NON-ASBESTOS	LAYER I-H APPEARANCE F-NF
191993A White Skim Coat West Wall Area 40	W-01-A	None Detected	<1% Cellulose <1% Talc 50% Binders 50% Mineral Cleavages	I F
191993B Grey Plaster West Wall Area 40	W-01-B	None Detected	<1% Cellulose 25% Binders 25% Gypsum 50% Mineral Cleavages	I F
191994A White Skim Coat East Wall Area 24	W-02-A	None Detected	<1% Cellulose <1% Synthetic Fibers 50% Binders 50% Mineral Cleavages	I F
191994B Grey Plaster East Wall Area 24	W-02-B	None Detected	<1% Cellulose 30% Sulfate Binders 30% Gypsum 40% Mineral Cleavages	I F

RESULTS: LAB SAMPLE # LAB DESCRIPTION LOCATION	CLIENT SAMPLE #	PERCENT & TYPE OF ASBESTOS	PERCENT & TYPE OF NON-ASBESTOS	LAYER I-H APPEARANCE F-NF
191995A Cream Skim Coat Ceiling Area 42	C-03-A	None Detected	<1% Talc 50% Binders 50% Mineral Cleavages	I F
191995B Grey Plaster Ceiling Area 42	C-03-B	None Detected	<1% Cellulose 30% Sulfate Binders 30% Gypsum 40% Mineral Cleavages	I F
191996A Cream Joint Compound North Wall Area 40	W-04-A	None Detected	<1% Cellulose 10% Glass Fibers 55% Carbonate Binders 35% Mineral Cleavages	I F
191996B White Drywall North Wall Area 40	W-04-B	None Detected	10% Cellulose <1% Glass Fibers 35% Gypsum 55% Mineral Cleavages	I F
191997A Tan Mastic North Wall Area 40A	W-05-A	None Detected	25% Carbonate Binders 70% Organic Binders 5% Mineral Cleavages	I NF
191997B Cream Joint Compound North Wall Area 40A	W-05-B	None Detected	75% Carbonate Binders 25% Mineral Cleavages	I NF
191997C Cream Drywall North Wall Area 40A	W-05-C	None Detected	10% Cellulose <1% Glass Fibers 30% Gypsum 60% Mineral Cleavages	I F
191998A Cream Joint Compound South Wall Area 44	W-06-A	None Detected	5% Glass Fibers 85% Carbonate Binders 10% Mineral Cleavages	I F

RESULTS: LAB SAMPLE # LAB DESCRIPTION LOCATION	CLIENT SAMPLE #	PERCENT & TYPE OF ASBESTOS	PERCENT & TYPE OF NON-ASBESTOS	LAYER I-H APPEARANCE F-NF
191998B White Drywall South Wall Area 44	W-06-B	None Detected	10% Cellulose <1% Glass Fibers 30% Gypsum 60% Mineral Cleavages	I F
191999A Tan Mastic South Wall Area 45	W-07-A	None Detected	5% Carbonate Binders 90% Organic Binders 5% Mineral Cleavages	I NF
191999B Cream Joint Compound South Wall Area 45	W-07-B	None Detected	85% Carbonate Binders 10% Organic Binders 5% Mineral Cleavages <1% Perlite	I NF
191999C Cream Joint Compound South Wall Area 45	W-07-C	None Detected	80% Carbonate Binders 10% Organic Binders 10% Mineral Cleavages	I NF
191999D White Drywall South Wall Area 45	W-07-D	None Detected	10% Cellulose <1% Glass Fibers 30% Gypsum 60% Mineral Cleavages	I F
192000A Tan/Cream Floor Tile East Side Area 43	F-08-A	None Detected	60% Carbonate Binders 30% Organic Binders 10% Mineral Cleavages	I NF
192000B Tan Clear Mastic East Side Area 43	F-08-B	None Detected	<1% Cellulose 10% Carbonate Binders 85% Organic Binders 5% Mineral Cleavages	I F
192000C White Leveling Compound East Side Area 43	F-08-C	None Detected	<1% Cellulose 40% Binders 10% Gypsum 50% Mineral Cleavages	I F

RESULTS: LAB SAMPLE # LAB DESCRIPTION LOCATION	CLIENT SAMPLE #	PERCENT & TYPE OF ASBESTOS	PERCENT & TYPE OF NON-ASBESTOS	LAYER I-H APPEARANCE F-NF
192001A Tan Cream Floor Tile East Side Area 42	F-09-A	None Detected	60% Carbonate Binders 35% Organic Binders 5% Mineral Cleavages	I NF
192001B Black Mastic East Side Area 42	F-09-B	10-20% Chrysotile	60% Organic Binders 20% Mineral Cleavages	I F
192002A Brown/Cream Floor Tile West Side Area 22	F-10-A	>1-3% Chrysotile	40% Carbonate Binders 30% Organic Binders 27% Mineral Cleavages	I F
192002B Black Mastic West Side Area 22	F-10-B	5-15% Chrysotile	5% Cellulose 65% Organic Binders 15% Mineral Cleavages	I F
192003A Tan Carpet Mastic East Side Area 24A	F-11-A	None Detected	<1% Cellulose 5% Carbonate Binders 80% Organic Binders 15% Mineral Cleavages	I F
192003B Cream Float East Side Area 24A	F-11-B	None Detected	40% Binders 60% Mineral Cleavages	I NF
192003C Black Mastic East Side Area 24A	F-11-C	5-15% Chrysotile	75% Organic Binders 10% Mineral Cleavages	I F
192004A Green Floor Tile East Side Area 23	F-12-A	>1-3% Chrysotile	<1% Cellulose 67% Carbonate Binders 25% Organic Binders 5% Mineral Cleavages	I F

RESULTS: LAB SAMPLE # LAB DESCRIPTION LOCATION	CLIENT SAMPLE #	PERCENT & TYPE OF ASBESTOS	PERCENT & TYPE OF NON-ASBESTOS	LAYER I-H APPEARANCE F-NF
192004B Black Mastic East Side Area 23	F-12-B	10-20% Chrysotile	75% Organic Binders 5% Mineral Cleavages	I F
192005A Tan Carpet Mastic East Side Area 44	F-13-A	None Detected	<1% Cellulose 80% Organic Binders 20% Mineral Cleavages	I F
192005B Cream Floor Tile East Side Area 44	F-13-B	None Detected	65% Carbonate Binders 30% Organic Binders 5% Mineral Cleavages	I NF
192005C Clear Yellow Mastic East Side Area 44	F-13-C	None Detected	<1% Cellulose 85% Organic Binders 15% Mineral Cleavages	I F
192006A Grey on White Floor Tile East Side Area 45	F-14-A	None Detected	65% Carbonate Binders 30% Organic Binders 5% Mineral Cleavages	I NF
192006B Tan Mastic East Side Area 45	F-14-B	None Detected	80% Organic Binders 20% Mineral Cleavages	I NF
192006C Cream Leveling Compound East Side Area 45	F-14-C	None Detected	30% Binders 15% Gypsum 55% Mineral Cleavages	I NF
192007A Red Mastic East Side Area 40A	CM-15-A	None Detected	<1% Cellulose <1% Glass Fibers 5% Carbonate Binders 85% Organic Binders 10% Mineral Cleavages	I F

RESULTS: LAB SAMPLE # LAB DESCRIPTION LOCATION	CLIENT SAMPLE #	PERCENT & TYPE OF ASBESTOS	PERCENT & TYPE OF NON-ASBESTOS	LAYER I-H APPEARANCE F-NF
192007B Tan Mastic East Side Area 40A	CM-15-B	None Detected	10% Carbonate Binders 70% Organic Binders 20% Mineral Cleavages	I NF
192008 Grey Ceiling Tile Area 44	CT-16	None Detected	20% Cellulose 50% Mineral Wool 5% Binders 5% Mineral Cleavages 5% Paint 15% Perlite	I F
192009 Cream Grey Ceiling Tile Area 45	CT-17	None Detected	55% Cellulose 20% Mineral Wool 5% Carbonate Binders <1% Mineral Cleavages 5% Paint 15% Perlite	I F
192010 Dark Cream Ceiling Tile Area 41	CT-18	None Detected	70% Cellulose 10% Mineral Wool 5% Carbonate Binders <1% Mineral Cleavages 5% Paint 10% Perlite	I F
192011 Cream Window Putty Area 40 North Window	WP-19	None Detected	75% Carbonate Binders 20% Organic Binders 5% Mineral Cleavages	I NF
192012 Cream Window Putty Area 40 North Window	WP-20	None Detected	75% Carbonate Binders 20% Organic Binders 5% Mineral Cleavages	I NF
192013 Cream Window Putty Area 40A Window	WP-21	None Detected	75% Carbonate Binders 20% Organic Binders 5% Mineral Cleavages	I NF

RESULTS: LAB SAMPLE # LAB DESCRIPTION LOCATION	CLIENT SAMPLE #	PERCENT & TYPE OF ASBESTOS	PERCENT & TYPE OF NON-ASBESTOS	LAYER I-H APPEARANCE F-NF
192014A Light Grey Coating South End Below Raised Corridor	EXT-W-22-A	None Detected	50% Carbonate Binders 45% Organic Binders 5% Mineral Cleavages	I NF
192014B Grey Cementitious South End Below Raised Corridor	EXT-W-22-B	None Detected	5% Cellulose 50% Sulfate Binders 45% Mineral Cleavages	I F
192015 Grey Stucco Center Below Raised Corridor	EXT-W-23	None Detected	50% Carbonate Binders 45% Organic Binders 5% Mineral Cleavages	I NF
192016 Grey Stucco North End Below Raised Corridor	EXT-W-24	None Detected	50% Carbonate Binders 45% Organic Binders 5% Mineral Cleavages	I NF

Attached are the results of analysis of bulk samples submitted for asbestos identification. Converse Consultants follows EPA Method EPA/600/R-93/116, July 1993 and EPA/600/M4-82-020, December 1982.

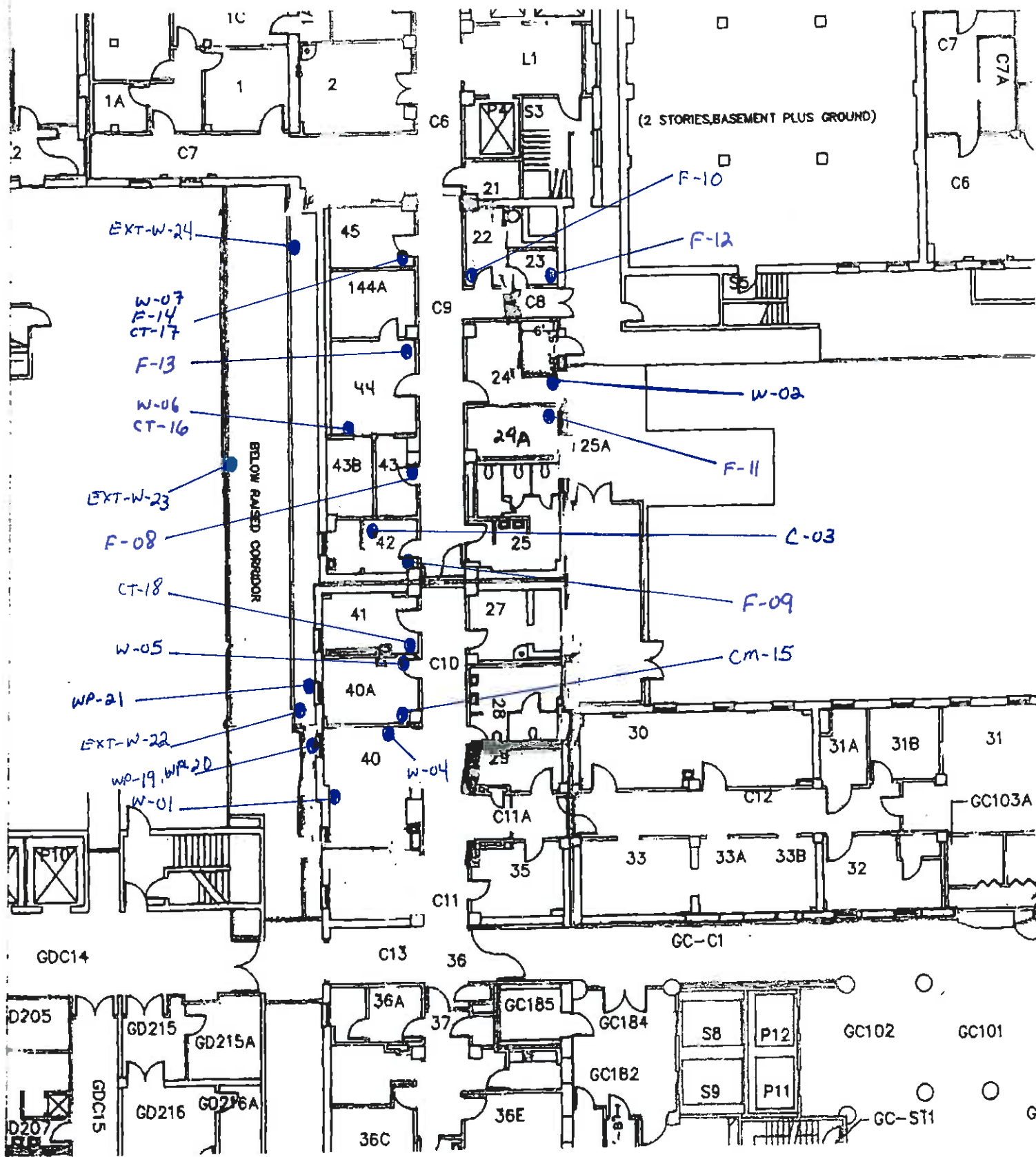
Each sample was initially examined under a stereoscopic microscope at a magnification of 10x to 60x. Fibrous material was examined for morphology and content. Portions of each sample were immersed in a fluid with a known refractive index. The sample was examined under polarized light using a Nikon Labophot microscope with a McCrone Dispersion Staining objective under 100X magnification. Optical characteristics of the fibrous material were examined to determine the mineralogy of the fiber. The observed optical characteristics include angles of extinction, signs of elongation and dispersion staining colors. Asbestos fiber content is estimated by optically comparing the quantity of asbestos material and non-asbestos material to establish estimated percentages. Per the method, samples with distinct layers or inhomogeneous character have each layer analyzed separately and reported as individual layers. (I – Inhomogeneous, H – Homogeneous, F – Fibrous, NF – Non-Fibrous)

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

Converse Consultants is National Voluntary Laboratory Accreditation Program accredited. Our NVLAP Lab Code: 102091-0. This report must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. This report must not be reproduced except in full without the approval of the laboratory. This report relates only to the items tested.

APPENDIX C

Bulk Sample Location Diagram



APPENDIX D

Certifications

M&C Environmental Training

Asbestos Contractor/Supervisor Refresher Training Course

Frank M. Reynolds III

has successfully completed the Asbestos Contractor/Supervisor Refresher course approved by the California Division of Occupational Safety and Health for purposes of certification required by Title 8, Article 2.7 Chapter 3.2, Section 341.16 and the accreditation required under the Toxic Substances Control Act, Title II. Conducted by M&C Environmental Training, Inc., 1619 Beverly Place, Berkeley, California 94707. Tel. #(510) 525 - 1388

Course Approval Number: CA-003-04

Location: Reno, Nevada Expiration: November 30, 2011

Dates: November 30, 2010

Director of Training: John McGinnis



Certificate Number 29053 SR

M&C Environmental Training

Asbestos Inspector Refresher Training Course

Frank M. Reynolds III

has successfully completed the Asbestos Inspector Refresher course approved by the California Division of Occupational Safety and Health for purposes of certification required by Title 8, Article 2.7 Chapter 3.2, Section 341.16 and the accreditation required under the Toxic Substances Control Act, Title II. Conducted by M&C Environmental Training, Inc., 1619 Beverly Place, Berkeley, California 94707. Tel. #(510) 525 - 1388

Course Approval Number: CA-003-06

Location: Reno, Nevada Expiration: December 1, 2011

Dates: December 1, 2010

Director of Training: John McGinnis



Certificate Number 29107 IR

M&C Environmental Training

Asbestos Management Planner Refresher Training Course

Frank M. Reynolds III

has successfully completed the Asbestos Management Planner Refresher course approved by the California Division of Occupational Safety and Health for purposes of certification required by Title 8, Article 2.7 Chapter 3.2, Section 341.16 and the accreditation required under the Toxic Substances Control Act, Title II. Conducted by M&C Environmental Training, Inc., 1619 Beverly Place, Berkeley, California 94707. Tel. #(510) 525 - 1388

Course Approval Number: CA-003-08

Location: Reno, Nevada Expiration: December 1, 2011

Dates: December 1, 2010

Director of Training: John McGinnis

John McGinnis

Certificate Number 29124 PR

DATE 4/16/10
LICENSE NO. IJMI248
INSPECTOR
MANAGEMENT PLANNER
PROJECT MONITOR

Frank M. Reynolds III
Signature

[Wallet Card - Fold Here]

STATE OF NEVADA
DEPARTMENT OF BUSINESS AND INDUSTRY
DIVISION OF INDUSTRIAL RELATIONS
OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION

ASBESTOS ABATEMENT CONSULTANT
FRANK M. REYNOLDS III
CONVERSE CONSULTANTS

HAS PAID FEE REQUIRED BY
(NSPO Rev. 2-06) CHAPTER 618 OF NAC
THIS LICENSE EXPIRES ON 4/16/11 (0) 3656

OSHA

002147335

U.S. Department of Labor
Occupational Safety and Health Administration

FRANK REYNOLDS III

has successfully completed a 10-hour Occupational Safety and Health
Training Course in

Construction Safety & Health

(Trainer)

11/04/2008

(Date)

M&C Environmental Training
AHERA Accreditation ID Card

Name: Frank M. Reynolds III
Course: Contractor/Supervisor Ref.
Date: November 30, 2010
Certification: 29053 SR
Expiration: November 30, 2011
(510) 525-1388

M&C Environmental Training
AHERA Accreditation ID Card

Name: Frank M. Reynolds III
Course: Management Planner Ref.
Date: December 1, 2010
Certification: 29124 PR
Expiration: December 1, 2011
(510) 525-1388

M&C Environmental Training
AHERA Accreditation ID Card

Name: Frank M. Reynolds III
Course: Inspector Ref.
Date: December 1, 2010
Certification: 29107 IR
Expiration: December 1, 2011
(510) 525-1388

Certificate of Training

This Certifies that

John W. Petersen

has successfully completed 8 hours training entitled

Asbestos Project Designer Refresher

Toxic Substances Control Act, Title II (AHERA)

This is an annual certification. It must be renewed.

**Environmental
Safety**

Training

Professionals Ltd.

3035 Prospect Park Drive #1110
Rancho Cordova, CA 95670
Phone 916 638-5550
Fax 916 638-5551
Division Approval #CA-006-10

I.D. #: 1773
Certification #: 4359
Course Date: 03/16/11
Expiration Date: 03/16/12

By: Neta Snider

Authorized Signature: Neta Snider

Certificate of Training

This Certifies that

John W. Petersen

has successfully completed 8 hours of formal training entitled

**Asbestos Building Inspector Refresher
Asbestos Management Planner Refresher
Toxic Substances Control Act, Title II (AHERA)**

This is an annual certification. It must be renewed.

**Environmental
Safety
Training
Professionals Ltd.**

3035 Prospect Park Dr # 110
Rancho Cordova CA 95670
Phone 916 638-5550
Fax 916 638-5551
Division Approval #CA-006-06
#CA-006-08

By: Neta Snider

Authorized Signature: Neta Snider

Certification # 3608

I.D #: 1773

Course Date: 03/17/11

Expiration Date: 03/17/12

Certificate of Training

This Certifies that

John W. Petersen

has successfully completed 8 hours training entitled

Asbestos Contractor/Supervisor Refresher

Section 206 of TSCA Title II (AHERA)

This is an annual certification. It must be renewed.

Environmental

Safety

Training

Professionals Ltd.

3035 Prospect Park Drive #110

Rancho Cordova, CA 95670

Phone 916 638-5550

Fax 916 638-5551

Division Approval #CA-006-04

I.D. #:

1773

Certification #:

7739

Course Date:

03/18/11

Expiration Date: 03/18/12

By: Neta Snider

Authorized Signature: Neta Snider

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

DATE 3/08/11	LICENSE IJPM575
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THE ASBESTOS ABATEMENT CONSULTANT NAMED BELOW IS LICENSED UNDER THE
PROVISIONS OF CHAPTER 618 OF N.R.S. AND N.A.C. THIS LICENSE EXPIRES ON 3/08/12

JOHN W. PETERSEN
CONVERSE CONSULTANTS
4840 MILL STREET, UNIT #5
RENO, NV 89502