Appendix F
Limited Asbestos-Containing Material Survey and Lead-Based Paint Survey
Appendix

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LIMITED ASBESTOS CONTAINING MATERIALS SURVEY AND LEAD-BASED PAINT SURVEY
SERRANO 2 PROJECT
700 WEST BASELINE ROAD
CLAREMONT, CALIFORNIA

July 22, 2013

GEOTek Project No. 1034-CR3

Prepared For:

D.R. HORTON
America's Builder

D.R. HORTON LOS ANGELES HOLDING COMPANY, INC.
2280 Wardlow Circle, Suite 100
Corona, California 92880
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1.0 EXECUTIVE SUMMARY

GEOTek, Inc. (GEOTek) has performed a Limited Asbestos-Containing Materials Survey and Lead-Based Paint Survey at the Serrano 2 Project, located at 700 West Baseline Road in the City of Claremont, Los Angeles County, California (the “Site”). Our services were conducted in general conformance with the scope and limitations of the Asbestos Hazard Emergency Response Act (AHERA), codified in Title 40 of the Code of Federal Regulations, Part 763 (40 CFR 763), United States Housing and Urban Development (HUD) Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing, revised 2012, and GEOTek Proposal No. P3-0603913-CR, dated June 19, 2013. Any additions or deletions from our scope of services are discussed in the appropriate sections of this assessment.

Our survey was limited to specific buildings on the Site, specifically “South Building”, “North Building” and “Trailer”.

Based on our survey, the following asbestos-containing materials were identified in the buildings on the Site:

- Wall texture and joint compound on drywall in the South Building, approximately 900 square feet, Category I non-friable;
- 9x9 vinyl floor tile and associated mastics in the South Building, approximately 1,150 square feet, Category I non-friable material;
- Wall texture on drywall in the North Building, approximately 800 square feet, Category I non-friable material;
- 9x9 vinyl floor tile and associated mastics in the North Building, approximately 900 square feet, Category I non-friable material.

These materials should be abated and disposed of at the proper facility prior to demolition of the structure.

Lead-based paint was not identified in the buildings.

This executive summary does not contain all the information that is found in the full report. The report should be read in its entirety to obtain a more complete understanding of the information provided, and to aid in any decisions made or actions taken based on this information.
2.0 INTRODUCTION

On July 10, 2013, GEOTek, INC. (GEOTek) conducted a limited asbestos-containing materials (ACM) survey and a lead-based paint (LBP) survey of the Serrano 2 Project buildings, located at 700 West Baseline Road in the City of Claremont, Los Angeles County, California, hereinafter referred to as the "Site".

2.1 PURPOSE

The purpose of the survey was to locate, sample, and assess the condition of accessible building materials within specific buildings that were suspected of containing asbestos and lead-based paint. The survey was performed by Mr. Michael Batten, a California Certified Asbestos Consultant (CAC) and USEPA Accredited Lead Inspector.

2.2 THIRD PARTY RELIANCE

Third party reliance letters may be issued upon request and upon the payment of the, then current, fee for such letters. All third parties relying on GEOTek’s reports, by such reliance, agree to be bound by GEOTek’s General Conditions and limitations. No reliance by any party is permitted without such agreement, regardless of the content of the reliance letter itself.
3.0 ASBESTOS SAMPLING AND ANALYTICAL METHODS

The survey area of the Site was inspected for the presence of material that was suspected of containing more than one percent asbestos. ACMs were divided into three main categories: Surfacing Materials, Thermal System Insulation, and Miscellaneous Materials. Suspect materials identified were described and categorized into homogeneous areas. A homogeneous area consists of identified material found in various locations in a building that is identical in color, appearance, pattern, texture, and date of installation.

The asbestos sampling was conducted in substantial accordance with Asbestos Hazard Emergency Response Act (AHERA) guidelines. For this survey, the number of samples collected was limited to up to three samples per homogeneous area, unless large quantities of insulation or surfacing material were encountered. Other limitations and exclusions are discussed in Sections 5.4 and 7.0.

3.1 SAMPLING PROTOCOL

Samples of suspect miscellaneous materials were collected in a distributed manner. No samples were collected from any homogeneous area where the inspector determined that the material was non-ACM (such as thermal system insulation that was obviously fibrous glass, foam glass, or rubber).

Samples were obtained with tools designed to penetrate a material without creating excessive dust. A utility knife, chisel, and hammer were utilized, rather than scratching a sample from the surface of suspected materials, in an effort to obtain a sample that was representative of all layers of the material. The area was pre-wetted to reduce fiber generation during the sampling process.

GEOTek sampling procedures incorporate the use of containers labeled in a unique numbering sequence to store the bulk samples. Information about bulk samples, including the sample number and material description, were recorded on the Chain-of-Custody forms as each sample was collected. Analytical results and Chain-of-Custody forms are included in Appendix A.

3.2 ANALYTICAL PROTOCOL

A total of 28 bulk samples of suspect building materials were collected from the study area at the Site. Bulk samples were submitted to Environmental Management Consultants in Phoenix, Arizona, for analysis in accordance with U.S. Environmental Protection Agency (EPA) Method 600/M4-82-020, Polarized Light Microscopy (PLM). The laboratory is accredited for PLM analysis by the National Voluntary Laboratory Accreditation Program (NVLAP), accreditation No. 1926. PLM analysis requires the microscopist to take a portion of the sample and treat it with an oil of specific refractive index. The prepared slide is then subjected to a variety of tests while being viewed under varying polarizations of light. Each type of asbestos displays unique characteristics when subjected to these tests. Percentages of the identified types of asbestos are determined by visual estimation.
In some cases, the laboratory microscopist determines that there are two or more different materials layered in the bulk sample. Under federal regulations, the microscopist must separate and analyze these materials separately. After separation protocols were used, the total number of samples analyzed was 42.
4.0 DESCRIPTION OF FACILITY

The Site is occupied by two commercial buildings and a trailer located at 700 West Baseline Road in the City of Claremont, Los Angeles County, California. The "South Building" is approximately 10,000 square feet. The "North Building" is approximately 9,000 square feet. A construction trailer is also located on the Site. Our survey was limited to these specific buildings on the Site (refer to Figure 1 in Appendix B).

The South Building is constructed of metal on a concrete slab foundation. Suspect materials include insulation, spline ceiling tiles, drywall wall systems and ceilings, vinyl tile, and carpet floor coverings. Insulation was identified as fiberglass.

North Building is a metal building on a concrete slab foundation. The suspect materials identified in North Building were insulation, lay-in ceiling panels, drywall wall systems, and vinyl tile. Insulation was identified as fiberglass.

The Trailer is a portable building. The suspect material identified in this structure were ceiling panels.
5.0 FINDINGS

Based on the analytical results of the limited ACM survey, asbestos-containing materials were identified in South Building and North Building on the Site. The laboratory report is included in Appendix A.

According to the U.S. Occupational Safety and Health Administration (OSHA) and EPA regulations, any material that contains more than one percent (1%) of any type of asbestos is considered an ACM. The following narrative lists the types of suspect materials sampled during the survey. Similar materials with unique patterns or colors (such as ceiling tiles, floor tiles, etc.) have been assigned unique homogeneous areas.

5.1 REGULATED ASBESTOS-CONTAINING MATERIALS (RACM)

Spray-Applied Acoustic Ceiling Material (SAAC)
SAAC was not identified on the ceilings of the South Building or North Building.

Thermal System Insulation
Thermal insulation was identified as fiberglass in South Building and North Building. It was not identified in the trailer.

5.2 CATEGORY I NON-FRIABLE MATERIALS

Ceiling Panels
Two-foot by four-foot (2' by 4') lay-in ceiling panels were identified in North Building. Three (3) samples of the ceiling panels were obtained and analyzed. Asbestos was not detected in the samples analyzed.

Ceiling panels (1' x 15'') were also identified in the Trailer. Three (3) samples of the ceiling panels were obtained and analyzed. Asbestos was not detected in the samples analyzed.

Ceiling Tiles
Two types of 12'' by 12'' spline ceiling tiles were identified in South Building. Three (3) samples of each type of ceiling panel were obtained and analyzed. Asbestos was not detected in the samples analyzed.

The ceiling tiles in each building appeared to be fastened to the sub-ceilings with glue. Three (3) samples of the glue/mastic were obtained. Asbestos was not detected in the samples.
Skim Coat/Wall Texture
Wall texture was identified on the walls in a painting area in the South Building. Three (3) samples of the wall system were obtained and analyzed. Chrysotile asbestos (3%) was detected in one sample.

Wall texture was also identified on the walls in the restrooms of the North Building. Three (3) samples of this material were obtained. Chrysotile asbestos (1 – 3%) was detected in the samples.

Joint Compound
Joint compound was not visually identified on the wall systems of the South Building. However, the laboratory analyst determined there was joint compound present in one of the three wall system samples. Chrysotile asbestos (4%) was detected in the joint compound.

Joint compound was not visually identified on the wall systems of the North Building, nor in the samples analyzed by the laboratory.

Wallboard
Gypsum wallboard (drywall) was identified as the walls of the paint room inside South Building. Three (3) samples were obtained. Asbestos was not detected in the samples.

Drywall was also identified as the wall system inside the restrooms of the North Building. Three (3) samples of this material were obtained. Asbestos was not detected in the samples.

Wall Plaster
Plaster was not identified in the buildings.

Stucco
Stucco was not identified in or on South Building or North Building.

Vinyl Floor Tile and Floor Mastic
Two types of vinyl floor tile and associated mastics were identified in South Building. Three (3) samples of each of these materials were obtained and analyzed. Chrysotile asbestos (12%) was identified in the floor tile of the “tech room” area. Chrysotile asbestos (1 – 8%) was identified in the mastics of both types. Asbestos was not identified in the other mastic samples.

Vinyl floor tile and associated mastics were identified in North Building. Three (3) samples of these materials were obtained and analyzed. Chrysotile asbestos was detected in vinyl floor tile (15%) and mastic (2 – 3%). See Figure 2 in Appendix B for the location of this material.

Vinyl Sheet Flooring and Mastic
Vinyl Sheet Flooring and associated mastics were not identified in South Building or North Building.

5.3 CATEGORY II NON-FRIABLE MATERIALS

Wallboard Tape
Wallboard tape was not identified in South Building or North Building

Baseboard Mastic
Baseboard mastics were identified in South Building. One (1) sample of this material was obtained and analyzed. Asbestos was not identified in the mastic.

Fire Doors
Fire doors were not identified in the buildings.

Carpet Mastic
Carpet and mastic was identified in South Building. It was tacked on, and no mastic was observed.

Carpet and mastic was not identified in North Building.

Roofing Systems
The roofing systems of the buildings were identified as corrugated metal.

Vapor Barrier
A vapor barrier was not identified in the study area.

5.4 INACCESSIBLE AND UNSAMPLED SUSPECT ACM

It should be noted that certain suspect materials may not have been sampled. Unsampled suspect ACM may be located within walls, ceiling cavities and other non-accessible areas. Caution should be used in relation to any unidentified materials encountered until proper sampling and analysis have determined the asbestos content.

5.5 PRIOR REPORTS

GEOTEK was not supplied with prior reports for the subject Site. We were provided with drawings detailing the study area and the proposed renovations.
6.0 LEAD-BASED PAINT SURVEY

Painted surfaces were identified in each building. LeadCheck™ chemical swabs were used on the painted surfaces (one or two on each surface).

South Building
Three (3) types of painted surfaces were identified in the building: Wallboard, doors, and trim painted white on the interior, beige paint on the exterior, and brown paint on the exterior trim. Two swabs were utilized on each type of paint. There were no chemical reactions that indicated Lead-Based Paint was present on the swabs.

North Building
Three (3) types of painted surfaces were identified in the building; walls painted white on the interior walls and trim, beige paint on the exterior, and blue-green paint on the restroom walls. Two swabs were utilized on each type of paint. There were no chemical reactions that indicated Lead-Based Paint was present on the swabs.

Lead-Based Paint is defined by the USEPA and OSHA as paint containing 0.5% lead by weight. The identified painted surfaces in the Site building are not covered with lead-based paint.
7.0 **CONCLUSIONS AND RECOMMENDATIONS**

Based on our survey, the following asbestos-containing materials were identified in the buildings on the Site:

- Wall texture and joint compound on drywall in the South Building, approximately 900 square feet, Category I non-friable;
- 9x9 vinyl floor tile and associated mastics in the South Building, approximately 1,150 square feet, Category I non-friable material;
- Wall texture on drywall in the North Building, approximately 800 square feet, Category I non-friable;
- 9x9 vinyl floor tile and associated mastics in the North Building, approximately 900 square feet, Category I non-friable material.

These materials should be abated and disposed of at the proper facility prior to demolition of the structure.

Based on our survey, lead-based paint was not identified in the buildings.

If additional materials not described in this report are discovered during demolition, or if the scope of renovations changes to impact other systems not surveyed as part of this limited ACM survey, they should be assumed to contain asbestos until proven otherwise.
8.0 LIMITATIONS

8.1 SPECIAL TERMS AND CONDITIONS

GEOTek conducted an ACM Survey in general accordance with AHERA as authorized by D.R. HORTON LOS ANGELES HOLDING COMPANY, INC. This study does not include sampling of soil, groundwater and/or the debris on-Site for environmental testing. This report is intended for the use of D.R. HORTON LOS ANGELES HOLDING COMPANY, INC. and their immediate assignees. The contents should not be relied upon by any party other than the aforementioned without the express written consent of GEOTek. This survey alone is not to be used for abatement purposes.

The LBP Survey was conducted in general accordance with HUD Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing, revised 2012.

8.2 LIMITATIONS AND EXCEPTIONS OF ASSESSMENT

The findings, conclusions, and recommendations made in this report are based on the information that was made available to GEOTek, in most instances from public records. The information is relevant to the date of our site work and should not be relied on to represent conditions at any later date. The opinions and conclusions expressed herein are based on information obtained during our assessment and on our experience and current standards of technical practice. GEOTek makes no other warranties, either express or implied, concerning the completeness of the data furnished to us. GEOTek cannot be responsible for conditions or consequences arising from relevant facts that were concealed, withheld, or not fully disclosed at the time our assessment was undertaken. GEOTek is not responsible, nor liable for work, testing or recommendations performed or provided by others. This report is not and should not be construed as a warranty or guarantee about the presence or absence of additional environmental hazards or contaminants, which may affect the subject Site. Facts, conditions, and acceptable risk factors change with time; accordingly, this report should be viewed within this context.
9.0 CERTIFICATIONS

GEOTek, INC. (GEOTek) has performed an Asbestos-Containing Materials Survey and Lead-Based Paint Survey of Serrano 2 Project located at 700 West Baseline Road in the City of Claremont, Los Angeles County, California (the “Site”). Our services were conducted in general conformance with the scope and limitations of GEOTek Proposal No. P3-0603913-CR, dated June 19, 2013.

The project team qualifications are included in Appendix C.

We appreciate this opportunity to be of service. If you have any questions, or if we can be of further service, please contact us at (702) 897-1424.

Sincerely,
GEOTek, INC.

J. Michael Batten, AAC
Environmental Services Manager
Certified Asbestos Consultant
No. 95-1721 (expires 10/27/13)

1034-CR3-ACM-DR Horton-Serrano 2-JMB-072213
**EMC LABS, INC.**
9830 S. 51st Street, Suite B109, Phoenix, AZ 85044
Phone: 800-362-3373 or 480-940-5294 - Fax: (480) 893-1726

**Bulk Asbestos Analysis by Polarized Light Microscopy**

**NVLAP#101926-0**

<table>
<thead>
<tr>
<th>Lab ID</th>
<th>Sample Location</th>
<th>Layer Name / Sample Description</th>
<th>Asbestos Detected</th>
<th>Asbestos Type (%)</th>
<th>Non-Asbestos Constituents</th>
</tr>
</thead>
</table>
| 0128846-001 | OFFICE | 12"x12" Ceiling Tile/ Dot, White/ Brown | No | None Detected | Cellulose Fiber 90%
Gypsum Binder/Filler 10% |
| 1034-01    |                 |                                 |                   |                   |                          |
| 0128846-002 | OFFICE | 12"x12" Ceiling Tile/ Dot, White/ Brown | No | None Detected | Cellulose Fiber 90%
Gypsum Binder/Filler 10% |
| 1034-02    |                 |                                 |                   |                   |                          |
| 0128846-003 | BREAK RM | 12"x12" Ceiling Tile/ Dot, White/ Brown | No | None Detected | Cellulose Fiber 90%
Gypsum Binder/Filler 10% |
| 1034-03    |                 |                                 |                   |                   |                          |
| 0128846-004 | OFFICE | 12"x12" Ceiling Tile/ Gouge, White/ Brown | No | None Detected | Cellulose Fiber 90%
Gypsum Binder/Filler 10% |
| 1034-04    |                 |                                 |                   |                   |                          |
| 0128846-005 | OFFICE | 12"x12" Ceiling Tile/ Gouge, White/ Brown | No | None Detected | Cellulose Fiber 90%
Gypsum Binder/Filler 10% |
| 1034-05    |                 |                                 |                   |                   |                          |
| 0128846-006 | OFFICE | Ceiling Tile Mastic, Brown | No | None Detected | Cellulose Fiber 3%
Gypsum Quartz Binder/Filler 97% |
| 1034-06    |                 |                                 |                   |                   |                          |
| 0128846-007 | OFFICE | Ceiling Tile Mastic, Brown | No | None Detected | Cellulose Fiber 3%
Gypsum Quartz Binder/Filler 97% |
**EMC LABS, INC.**  
9830 S. 51st Street, Suite B109, Phoenix, AZ 85044  
Phone: 800-362-3373 or 480-940-5294 - Fax: (480) 893-1726

**Bulk Asbestos Analysis by Polarized Light Microscopy**  
NVLAP#101926-0

**Client:** GEOTEK ENGINEERING  
**Address:** 909 E. 50TH STREET NORTH  
SIOUX FALLS, SD 57104

**Job# / P.O. #:** 1034-CR3  
**Date Received:** 07/11/2013  
**Date Analyzed:** 07/15/2013  
**Date Reported:** 07/15/2013

**Project Name:** SERRANO 2  
**EPA Method:** EPA 600/R-93/116  
**Submitted By:** JERRY ZUTZ

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<th>Sample Location</th>
<th>Layer Name / Sample Description</th>
<th>Asbestos Detected</th>
<th>Asbestos Type (%)</th>
<th>Non-Asbestos Constituents</th>
</tr>
</thead>
</table>
| 0128846-008 | PAINT RM 1034-08 | LAYER 1  
Wallboard, White/ Brown | No | None Detected | Cellulose Fiber 10%  
Gypsum  
Mica  
Carbonates  
Quartz  
90% |
|            |                 | LAYER 2  
Joint Compound, White | Yes | Chrysotile 4% | Cellulose Fiber 1%  
Carbonates  
Mica  
Gypsum  
Binder/Filler  
95% |
|            |                 | LAYER 3  
Wall Texture/ Paint, White/ Off White | Yes | Chrysotile 3% | Cellulose Fiber 2%  
Carbonates  
Mica  
Gypsum  
Binder/Filler  
95% |
| 0128846-009 | PAINT RM 1034-09 | Wallboard, White/ Brown | No | None Detected | Cellulose Fiber 10%  
Gypsum  
Mica  
Carbonates  
Quartz  
Binder/Filler  
90% |
| 0128846-010 | PAINT RM 1034-10 | Wallboard, White/ Brown | No | None Detected | Cellulose Fiber 10%  
Gypsum  
Mica  
Carbonates  
Quartz  
Binder/Filler  
90% |
# Bulk Asbestos Analysis by Polarized Light Microscopy

**EMC LABS, INC.**  
9830 S. 51st Street, Suite B109, Phoenix, AZ 85044  
Phone: 800-362-3373 or 480-840-5294 - Fax: (480) 893-1726

<table>
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<th>Asbestos Type (%)</th>
<th>Non-Asbestos Constituents</th>
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| 0128846-011 | 1034-11 | BREAK RM | LAYER 1  
VFT, Brown/Streak | No | None Detected | Cellulose Fiber 2%  
Carbonates  
Gypsum  
Quartz  
Binder/Filler 98% |
|  |  |  | LAYER 2  
Mastic, Black | Yes | Chrysotile 5% | Cellulose Fiber 3%  
Carbonates  
Gypsum  
Quartz  
Binder/Filler 92% |
| 0128846-012 | 1034-12 | MENS RM | LAYER 1  
VFT, Brown/Streak | No | None Detected | Cellulose Fiber 2%  
Carbonates  
Gypsum  
Quartz  
Binder/Filler 98% |
|  |  |  | LAYER 2  
Mastic, Black | Yes | Chrysotile 8% | Cellulose Fiber 2%  
Carbonates  
Gypsum  
Quartz  
Binder/Filler 90% |
| 0128846-013 | 1034-13 | MENS RM | LAYER 1  
VFT, Brown/Streak | No | None Detected | Cellulose Fiber 2%  
Carbonates  
Gypsum  
Quartz  
Binder/Filler 98% |
|  |  |  | LAYER 2  
Mastic, Black | Yes | Chrysotile 5% | Cellulose Fiber 3%  
Carbonates  
Gypsum  
Quartz  
Binder/Filler 92% |

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Page 3 of 7
# Bulk Asbestos Analysis by Polarized Light Microscopy

**Client:** GEOTEK ENGINEERING  
**Address:** 909 E. 50TH STREET NORTH  
**SIoux Falls, SD 57104**  
**Job# / P.O. #:** 1034-CR3  
**Date Received:** 07/11/2013  
**Date Analyzed:** 07/15/2013  
**Date Reported:** 07/15/2013  
**Project Name:** SERRANO 2  
**EPA Method:** EPA 600/R-93/116  
**Submitted By:** JERRY ZUTZ  
**Collected By:**

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<th>Lab ID</th>
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<th>Layer Name / Sample Description</th>
<th>Asbestos Detected</th>
<th>Asbestos Type (%)</th>
<th>Non-Asbestos Constituents</th>
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<tr>
<td>0128846-014</td>
<td>TECH RM 1034-14</td>
<td>LAYER 1 VFT, Beige/Streak</td>
<td>Yes</td>
<td>Chrysotile</td>
<td>12% Carbonates, Gypsum, Quartz, Binder/Filter</td>
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<tr>
<td></td>
<td></td>
<td>LAYER 2 Mastic, Yellow Note: Difficult to separate adjacent layers</td>
<td>Yes</td>
<td>Chrysotile</td>
<td>4% Cellulose Fiber, Carbonates, Gypsum, Binder/Filter</td>
</tr>
<tr>
<td>0128846-015</td>
<td>TECH RM 1034-15</td>
<td>LAYER 1 VFT, Beige/Streak</td>
<td>Yes</td>
<td>Chrysotile</td>
<td>12% Carbonates, Gypsum, Quartz, Binder/Filter</td>
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<tr>
<td></td>
<td></td>
<td>LAYER 2 Mastic, Yellow Note: Difficult to separate adjacent layers</td>
<td>Yes</td>
<td>Chrysotile</td>
<td>1% Cellulose Fiber, Carbonates, Gypsum, Binder/Filter</td>
</tr>
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<td>0128846-016</td>
<td>TECH RM 1034-16</td>
<td>LAYER 1 VFT, Beige/Streak</td>
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<td>Chrysotile</td>
<td>12% Carbonates, Gypsum, Quartz, Binder/Filter</td>
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<td>LAYER 2 Mastic, Yellow Note: Difficult to separate adjacent layers</td>
<td>Yes</td>
<td>Chrysotile</td>
<td>2% Cellulose Fiber, Carbonates, Gypsum, Binder/Filter</td>
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*Page 4 of 7*
### Bulk Asbestos Analysis by Polarized Light Microscopy

**Client:** GEOTEK ENGINEERING  
**Address:** 909 E. 50TH STREET NORTH, SIOUX FALLS, SD 57104  
**Collected:** 07/10/2013  
**Project Name:** SERRANO 2  
**Address:**  

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<th>Sample Location</th>
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<th>Asbestos Detected</th>
<th>Asbestos Type (%)</th>
<th>Non-Asbestos Constituents</th>
</tr>
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</table>
| 0128846-017 | COPY RM | LAYER 1  
Baseboard, Black | No | None Detected | Carbonates  
Quartz  
Binder/Filler | 100% |
| | | LAYER 2  
Mastic, White | No | None Detected | Carbonates  
Cellulose Fiber  
Gypsum  
Quartz  
Binder/Filler | <1% |
| 0128846-018 | NORTH CLASSRM | 2x4 Ceiling Panel, White/Beige | No | None Detected | Mineral Wool  
Cellulose Fiber  
Carbonates  
Gypsum  
Perlite  
Binder/Filler | 45%  
40%  
15% |
| 0128846-019 | NORTH CLASSRM | 2x4 Ceiling Panel, White/Beige | No | None Detected | Mineral Wool  
Cellulose Fiber  
Carbonates  
Gypsum  
Perlite  
Binder/Filler | 45%  
40%  
15% |
| 0128846-020 | NORTH CLASSRM | 2x4 Ceiling Panel, White/Beige | No | None Detected | Mineral Wool  
Cellulose Fiber  
Carbonates  
Gypsum  
Perlite  
Binder/Filler | 45%  
40%  
15% |
| 0128846-021 | NORTH CLASSRM | LAYER 1  
VFT, Brown Streak | Yes | Chrysotile 15% | Carbonates  
Quartz  
Gypsum  
Binder/Filler | 85% |
| | | LAYER 2  
Mastic, Yellow  
Note: Difficult to separate adjacent layers | Yes | Chrysotile 2% | Cellulose Fiber  
Carbonates  
Gypsum  
Binder/Filler | 95% |
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<th>Asbestos Type (%)</th>
<th>Non-Asbestos Constituents</th>
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<tbody>
<tr>
<td>0128846-022</td>
<td>NORTH CLASSRM</td>
<td>VFT, Brown Streak Note: Insufficient Mastic/Adhesive for Analysis</td>
<td>Yes</td>
<td>Chrysotile</td>
<td>15% Carbonates Quartz Gypsum Binder/Filler 85%</td>
</tr>
<tr>
<td>0128846-023</td>
<td>NORTH CLASSRM</td>
<td>LAYER 1 VFT, Brown Streak</td>
<td>Yes</td>
<td>Chrysotile</td>
<td>15% Carbonates Quartz Gypsum Binder/Filler 85%</td>
</tr>
<tr>
<td></td>
<td></td>
<td>LAYER 2 Mastic, Yellow Note: Difficult to separate adjacent layers</td>
<td>Yes</td>
<td>Chrysotile</td>
<td>3% Cellulose Fiber 2% Carbonates Gypsum Binder/Filler 95%</td>
</tr>
<tr>
<td>0128846-024</td>
<td>NORTH RESTRM</td>
<td>LAYER 1 Wallboard, White/ Brown</td>
<td>No</td>
<td>None Detected</td>
<td>Cellulose Fiber 10% Gypsum Mica Carbonates Quartz 90%</td>
</tr>
<tr>
<td></td>
<td></td>
<td>LAYER 2 Wall Texture/ Paint, White/ Off White Note: Layer is mainly Paint - little Texture present</td>
<td>Yes</td>
<td>Chrysotile</td>
<td>1% Cellulose Fiber 4% Carbonates Mica Gypsum Binder/Filler 95%</td>
</tr>
<tr>
<td>0128846-025</td>
<td>NORTH RESTRM</td>
<td>LAYER 1 Wallboard, White/ Brown</td>
<td>No</td>
<td>None Detected</td>
<td>Cellulose Fiber 10% Gypsum Mica Carbonates 90%</td>
</tr>
<tr>
<td></td>
<td></td>
<td>LAYER 2 Wall Texture/ Paint, Lt. Blue Note: Layer is mainly Paint</td>
<td>No</td>
<td>None Detected</td>
<td>Cellulose Fiber 5% Carbonates Gypsum Binder/Filler 95%</td>
</tr>
</tbody>
</table>
**Bulk Asbestos Analysis by Polarized Light Microscopy**

EMC LABS, INC.
9830 S. 51st Street, Suite B109, Phoenix, AZ 85044
Phone: 800-362-3373 or 480-940-5294 - Fax: (480) 893-1726

**Laboratory Report**
0128846

**Client:** GEOTEK ENGINEERING  
**Address:** 909 E. 50TH STREET NORTH  
**SIOUX FALLS, SD 57104**  
**Collected:** 07/10/2013  
**Project Name:** SERRANO 2

---

<table>
<thead>
<tr>
<th>Lab ID</th>
<th>Client ID</th>
<th>Sample Location</th>
<th>Sample Description</th>
<th>Asbestos Detected</th>
<th>Asbestos Type (%)</th>
<th>Non-Asbestos Constituents</th>
</tr>
</thead>
<tbody>
<tr>
<td>0128846-026</td>
<td>1034-26</td>
<td>NORTH RESTRM</td>
<td>WALLBOARD, WHITE/ BROWN</td>
<td>No</td>
<td>None Detected</td>
<td>Cellulose Fiber 10%</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Gypsum Mica Carbonates</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Quartz</td>
</tr>
<tr>
<td>0128846-027</td>
<td>1034-27</td>
<td>TRAILER</td>
<td>CEILING PANEL, WHITE/ BROWN</td>
<td>No</td>
<td>None Detected</td>
<td>Cellulose Fiber 90%</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Gypsum Mica Carbonates</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Mica Gypsum Binder/Filler 10%</td>
</tr>
<tr>
<td>0128846-028</td>
<td>1034-28</td>
<td>TRAILER</td>
<td>CEILING PANEL, WHITE/ BROWN</td>
<td>No</td>
<td>None Detected</td>
<td>Cellulose Fiber 90%</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Gypsum Mica Carbonates</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Mica Gypsum Binder/Filler 10%</td>
</tr>
</tbody>
</table>

---

**Analyst - Kurt Kettler**

**Signatory - Lab Manager - Ken Scheske**

Disclaimer: All test results are intended to be representative of the samples tested. Results should not be extrapolated to the entire area sampled. Due to the nature of asbestos detection, false negatives may occur. Testing may not detect all asbestos-containing materials present in the sample. The samples not destroyed in testing are retained a minimum of thirty days. The laboratory measurement of uncertainty for the test method is approximately 1% by the percent accuracy. Accredited by the National Institute of Standards and Technology, Voluntary Laboratory Accreditation Program for selected test methods for asbestos. This laboratory is not accredited by or exempt from the accreditation by the National Institute of Standards and Technology. The report must be used by the client to class product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government. Polychlorinated Biphenyls may not be consistently reliable in detecting asbestos in floor coverings and similar non-flammable, insulating building materials.
**CHAIN OF CUSTODY**

EMC Labs, Inc.
9830 S. 51ST St., Ste E-109
Phoenix, AZ 85044
(800) 362-3373 Fax (480) 893-1726

**COMPANY NAME:** GEOTEK, INC

6835 S. Escondido St, Ste A
Las Vegas, NV 89119

**CONTACT:** J. Michael Batten

**Phone/Fax:** (702) 897-1424 / (702) 897-2213

**Email:** mbatten@geotekusa.com & jsmith@geotekusa.com

**BILL TO:**

**E-MAILED JUL 15 2013**

**NOW ACCEPTING:** VISA – MASTERCARD

**Price Quoted:** $_____ / Sample $_____ / Layers

**COMPLETE ITEMS 1-4:** (Failure to complete any items may cause a delay in processing or analyzing your samples)

1. **TURNAROUND TIME:** [4hr rush] [8hr rush] [1-Day] [2-Day] [3-Day] [5-Day] [6-10 Day]

   ***Prior confirmation of turnaround time is required.
   ***Additional charges for rush analysis (please call marketing department for pricing details)
   ***Laboratory analysis may be subject to delay if credit terms are not met

2. **TYPE OF ANALYSIS:** [Bulk-P.M.] [Air-PCM] [Lead] [Point Count] [Fungi: AOC, W-C, Bulk, Swab, Tape]

3. **DISPOSAL INSTRUCTIONS:** [Dispose of samples at EMC] / [Return samples to me at my expense]

   (If you do not indicate preference, EMC will dispose of samples 60 days from analysis.)

4. **Project Name:** Serrano 2

**P.O. Number:**

<table>
<thead>
<tr>
<th>EMC SAMPLE #</th>
<th>CLIENT SAMPLE #</th>
<th>DATE &amp; TIME SAMPLED</th>
<th>LOCATION/MATERIAL TYPE</th>
<th>Samples Accepted Yes / No</th>
<th>AIR SAMPLE INFO / COMMENTS ON OFF FLOW RATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1034 - 01</td>
<td>7/10</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
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</tr>
<tr>
<td>28</td>
<td>1034 - 28</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**SPECIAL INSTRUCTIONS:**

Sample Collector: (Print) ____________________________ (Signature) ____________________________

Relinquished by: ____________________________ Date/Time: 7/11/13

Received by: ____________________________ Date/Time: 7/11/13

Relinquished by: ____________________________ Date/Time: 7/11/13

Received by: ____________________________ Date/Time: 7/11/13

**In the event of any dispute between the above parties for these services or otherwise, parties agree that jurisdiction and venue will be in Phoenix, Arizona and prevailing party will be entitled to attorney’s fees and court costs.**

Rev 0904/08
## ACM BULK SAMPLE LOG/CHAIN OF CUSTODY

**GEOTek, Inc.**
6835 South Escondido Street, Suite A
Las Vegas, NV 89119
Phone: (702) 897-1424
FAX: (702) 897-2213

**Project No.:** 0004-9R5 1074-CR5
**Project Name:** Serrano 2
**Project Manager:** J. Michael Batten
**Sampled By:** [Signature]
**Date:** 07/10/13

### Laboratory Instructions
- PLM
- Standard T/A

<table>
<thead>
<tr>
<th>Sample No.</th>
<th>Material</th>
<th>Location</th>
<th>Condition</th>
<th>Area (sq ft)</th>
<th>Potential</th>
<th>For:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1034-13</td>
<td>VET 1</td>
<td>Mesa Room</td>
<td>G</td>
<td>40 x 21</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1034-14</td>
<td>VET 1</td>
<td>Tech Room</td>
<td>G</td>
<td>20 x 15</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1034-15</td>
<td></td>
<td></td>
<td>2</td>
<td>2</td>
<td></td>
<td></td>
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<tr>
<td>1034-16</td>
<td></td>
<td></td>
<td>2</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1034-17</td>
<td>Core Panel &amp; Master Copy Room</td>
<td>G</td>
<td>50 x 15</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1034-18</td>
<td>goalie Panel 2 x 4 North Classroom</td>
<td>G</td>
<td>50</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1034-19</td>
<td></td>
<td></td>
<td>2</td>
<td>2</td>
<td></td>
<td></td>
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<tr>
<td>1034-20</td>
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<td>2</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1034-21</td>
<td>VET 1</td>
<td>North Classroom</td>
<td>0</td>
<td>20 x 30</td>
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<td></td>
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<tr>
<td>1034-22</td>
<td></td>
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<td>2</td>
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<tr>
<td>1034-23</td>
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<td>2</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1034-24</td>
<td>Wells Dr 1 North Restroom</td>
<td>G</td>
<td>40 x 30</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Chain of Custody

**Relinquished by:** [Signature]  
**Company:** GEOTek, Inc.  
**Date:** 7/10/13  
**Time:** 12:00

**Received by:** [Signature]  
**Company:** EMC Labs  
**Date:** 7/14/13  
**Time:** 9:30

**Relinquished by:** [Signature]  
**Received by:** [Signature]  
**Company:** EMC Labs  
**Date:** 7/11/13  
**Time:** 11:15
APPENDIX B

FIGURES, PHOTOGRAPHS, AND TABLE
Vinyl floor tile & mastics

Wall texture & joint compound

SOUTH BUILDING

Source: GeoTek field observations
Scale: Not given

FIGURE 2
ACM SAMPLE LOCATIONS, SOUTH BUILDING
SERRANO 2 PROJECT
700 WEST BASELINE ROAD
CLAREMONT, CALIFORNIA
Prepared for: D.R. HORTON

<table>
<thead>
<tr>
<th>Project No.</th>
<th>Report Date</th>
<th>Drawn By</th>
</tr>
</thead>
<tbody>
<tr>
<td>1034-CR3</td>
<td>07/22/13</td>
<td>JMB</td>
</tr>
</tbody>
</table>

GEO TK
GEOTECHNICAL | ENVIRONMENTAL | MATERIALS
6835 S. Escondido Street, Las Vegas, Nevada 89119
(702) 897-1424 (phone) / (702) 897-2213 (FAX)
FIGURE 2
ACM SAMPLE LOCATIONS, NORTH BUILDING
SERRANO 2 PROJECT
700 WEST BASELINE ROAD
CLAREMONT, CALIFORNIA
Prepared for: D.R. HORTON

Source: GeoTek field observations
Scale: Not given

Vinyl floor tile & mastics

Wall texture & joint compound

NORTH BUILDING
Photo 1: View of the ACM wall texture in the South Building.

Photo 2: View of one of the floor tiles in the South Building.
Photo 3: View of the second VFT type in the South Building.

Photo 4: View of the VFT in the North Building.
# TABLE I
ASBESTOS CONTAINING MATERIALS SUMMARY

<table>
<thead>
<tr>
<th>MATERIAL</th>
<th>LOCATION</th>
<th>APPROX. QUANTITY</th>
<th>ASBESTOS CONTENT</th>
<th>TSI</th>
<th>SURFACING</th>
<th>MISC.</th>
<th>RACM</th>
<th>CATEGORY I NF</th>
<th>CATEGORY II NF</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wall texture</td>
<td>South Building, paint room</td>
<td>900 s.f.(^1)</td>
<td>Chrysotile 3%</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Joint Compound</td>
<td>South Building, paint room</td>
<td>900 s.f.</td>
<td>Chrysotile 4%</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vinyl floor tile</td>
<td>South Building</td>
<td>1,150 s.f.</td>
<td>Chrysotile 5 - 15%</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Plastic beneath floor tile</td>
<td>South Building</td>
<td>1,150 s.f.</td>
<td>Chrysotile 1 - 8%</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wall texture</td>
<td>North Building, Restrooms</td>
<td>800 s.f.</td>
<td>Chrysotile 1%</td>
<td>X</td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vinyl floor tile</td>
<td>North Building, Classroom</td>
<td>900 s.f.</td>
<td>Chrysotile 15%</td>
<td>X</td>
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<td></td>
</tr>
<tr>
<td>Mastic beneath floor tile</td>
<td>South Building, Classroom</td>
<td>900 s.f.</td>
<td>Chrysotile 2 - 3%</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

\(^1\) s.f. = square feet
APPENDIX C

PROJECT TEAM QUALIFICATIONS
I. MICHAEL BATTEN, CAC, CEM
Environmental Services Manager

Education
BS in Geology, California State University, Fresno 1988

Registrations
- Certified Asbestos Consultant (CA #95-1721)
- Licensed Asbestos Abatement Consultant (NV #IJPM0655)
- Certified Environmental Manager (NV #1782)
- Asbestos Professional Inspector (IL #100-11092)

Certifications
- AHERA Certified Asbestos Building Inspector, Management Planner, Project Designer, & Contractor/Supervisor
- EPA Accredited Lead-based Paint Inspector & Risk Assessor
- OSHA HAZWOPER certified worker & supervisor
- OSHA Construction Safety & Health (10-Hour)

Affiliations
- American Society of Testing and Materials

Professional Experience
Mr. Batten has over 24 years of environmental experience, throughout which he has conducted and managed numerous environmental investigations, assessments, and remediations. He has prepared several NEPA assessments, USEPA EIS, and CEQA EIR reports. In addition, Mr. Batten has extensive experience in conducting asbestos and lead-based paint surveys and preparing management plans, including remediation design, for asbestos and lead present in buildings.

Project Experience
- **Phase I Environmental Site Assessments**: Mr. Batten has conducted more than 1,300 Phase I Environmental Site Assessments in 21 states, including Brownfield studies under USEPA grants.
- **Phase II Environmental Site Assessments**: Mr. Batten has conducted more than 120 Phase II Environmental Assessments, including Brownfield studies under USEPA grants.
- **Site Characterizations and Remediations**: Mr. Batten has experience conducting numerous site characterizations and remediations, including obtaining regulatory closure.
- **NEPA Studies**: Mr. Batten has conducted more than 200 NEPA studies, including Environmental Assessments, Environmental Impact Reports/Environmental Impact Studies, in eight states. The agencies involved include USEPA, FCC, BLM, National Park Service, and California EPA.
- **Asbestos Services**: Mr. Batten has conducted over 500 asbestos surveys in several states. He has also prepared numerous Asbestos Management Plans, prepared design plans, and monitored numerous abatement projects.
- **Lead-Based Paint Services**: Mr. Batten has conducted numerous Lead-Based Paint surveys.
- **Landfills**: Mr. Batten has conducted investigations and overseen remediations on landfills in Fresno, California and Henderson, Nevada.
- **Other Services**: Mr. Batten has been called upon to conduct less usual services on occasion, including mold consultation and investigation, radon studies, vapor intrusion studies, and indoor air quality studies.
Professional History

Environmental Services Manager. GeoTek, Inc., 2001 to present.


Project Manager. AllWest Environmental, Inc., 1996 to 1997.


STATE OF CALIFORNIA

DEPARTMENT OF INDUSTRIAL RELATIONS
Division of Occupational Safety and Health
Asbestos Unit
2424 Arden Way, Suite 485
Sacramento, CA 95825-2417
(916) 574-2999 Office (916) 483-0572 Fax
http://www.dir.ca.gov/didadbases.html

505011721C 109 115

September 17, 2012

J. Michael Batten
8240 Edmond Street
Las Vegas NV 89139

Dear Certified Asbestos Consultant or Technician:

Enclosed is your certification card. To maintain your certification, you must abide by the rules printed on the back of the certification card.

Your certification is valid for a period of one year. If you wish to renew your certification, you must apply for renewal at least 60 days before the expiration date shown on your card. [8 CCR 341.15(h)(1)].

Please hold and do not send copies of your required AHERA refresher renewal certificates to our office until you apply for renewal of your certification.

Certificates must be kept current if you are actively working as a CAC or CSST. The grace period is only for those who are not actively working as an asbestos consultant or site surveillance technician.

Please contact our office at the above address, fax number or email, of any changes in your contact/mailing information within 15 days of the change.

Sincerely,

Jeff Ferrell
Senior Safety Engineer

Attachment: Certification Card

cc: File

Renewal - Card Attached (Revised 01/03/2012)
4/17/2013

MICHAEL BATTEN
8240 EDMOND STREET
LAS VEGAS, NV 89139

ASBESTOS PROFESSIONAL LICENSE ID NUMBER: 11092

Enclosed is your Asbestos Professional License that expires 05/15/2014

CERTIFICATE EXPIRATION DATE

INSPECTOR 4/4/2014

If you have any questions or need further assistance, contact the Asbestos Program at (217)782-3517 or fax (217)785-5897.
Our WEB address is http://www.idph.state.il.us/envhealth/ehhome.htm
State of Nevada

Department of Conservation and Natural Resources
Division of Environmental Protection

This is to certify that

J MICHAEL BATTEN

having given satisfactory evidence of the necessary qualifications as required by the Nevada Revised Statute 459.400 to 459.800, inclusive, and Nevada Administrative Code 459.970 to 459.8729, inclusive, has been granted certification as an

Environmental Manager

in the State of Nevada

in testimony whereof, witness the signature of the Administrator and the Seal of the State of Nevada.

1732

Certification Number

August 31, 2013

Expiration Date

Colleen Cripe, Ph. D Acting Administrator

STATE OF NEVADA
DEPARTMENT OF BUSINESS AND INDUSTRY
DIVISION OF INDUSTRIAL RELATIONS
OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
ASBESTOS CONTROL PROGRAM
DATE 03/27/13 LICENSE NO. IJPM-0655

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 03/27/14

J Michael Batten
Geotech Inc
6835 S Escondido Street
Las Vegas, NV 89119
Western Regional Lead Training Center
At the University of California, San Diego
15090 Avenue of Science • San Diego, CA 92128 • 1-800/572-LEAD

This is to verify that

J. Batten

has successfully completed 24 hours of instruction in

Lead Inspector Training

05/09/94 – 05/11/94

Date

David Carey, Director
Western Regional Lead Training Center

Certificate No.
I 0240

UCSD Extension
University of California, San Diego

This is to verify that

J. Michael Batten

has completed 8 hours in the course

Risk Assessment Protocol for Lead Contamination

with the Environmental Training Center

October 31, 1994

Date

David W. Carey, Director
Department of Environmental Management
M&C Environmental Training
AHERA Accreditation ID Card

Name: Michael Batten
Course: Inspector Ref.
Date: March 14, 2013
Certification: 33699 IR
Expiration: March 14, 2014
(510) 525 - 1388

M&C Environmental Training
AHERA Accreditation ID Card

Name: Michael Batten
Course: Management Planner Ref.
Date: March 14, 2013
Certification: 33714 PR
Expiration: March 14, 2014
(510) 525 - 1388

M&C Environmental Training
AHERA Accreditation ID Card

Name: Michael Batten
Course: Project Designer Ref.
Date: September 5, 2012
Certification: 32522 DR
Expiration: September 5, 2013
(510) 525 - 1388

M&C Environmental Training
AHERA Accreditation ID Card

Name: Michael Batten
Course: Contractor/Supervisor Ref.
Date: September 7, 2012
Certification: 32548 SR
Expiration: September 7, 2013
(510) 525 - 1388

OSHA 002340551
U.S. Department of Labor
Occupational Safety and Health Administration

Michael Batten
This is to certify that
Has substantially completed training in accordance
with applicable laws and regulations.
Asbestos Building Inspector Refresher
Certificate: 0010134011100

Occupational Training & Supply, Inc.
2013
Kenner Costen
(Revisor)