LIMITED, AQMD ASBESTOS SURVEY

For Riverside County Parks

Yun Baird, Planner

Structure located at: Jensen Alvarado Ranch House
4307 Briggs Street
Riverside, CA 92509

Reference # AS2018-008, Window renovation

Heidi Barrios, MBA, REHS, CAC
Inland Empire Asbestos Consulting
May 18, 2018
Table of Contents

Title Page ............................................................................................................................... 3
Summary: ................................................................................................................................. 4
AQMD ASBESTOS SURVEY ..................................................................................................... 5

1.0 Purpose of Survey: .......................................................................................................... 5

2.0 Sampling Methodology: ................................................................................................ 6
   2.1 Quantity of Samples: .................................................................................................. 6
   2.2 Gathering Suspected Asbestos-Containing Material: ............................................... 6

3.0 Analysis: .......................................................................................................................... 6

4.0 Findings: ......................................................................................................................... 7

5.0 Discussion Concerning Inaccessible Areas: ............................................................... 7

6.0 Building Materials Not Containing Asbestos ............................................................... 7

7.0 Conclusion: ...................................................................................................................... 7

8.0 Recommendations: ......................................................................................................... 7

Diagram 1 - Asbestos Sampling Points: ............................................................................. 8
Asbestos Laboratory Results ................................................................................................. 9
Title Page

Reference Number: AS2018-008, Window Renovation

Date of Report: May 28, 2018

Date of Field Evaluation: May 18, 2018

Individual Requesting Evaluation: Yun Baird
Riverside County Parks
4600 Crestmore Road
Jurupa Valley, CA 92509

Survey Site: Jensen Alvarado Ranch House
4307 Briggs Street
Riverside, CA 92509

Principal Investigator / Author: Heidi Barrios, MBA, REHS, IH
Certified Asbestos Consultant
CAC, DOSH #17-5974
Inland Empire Asbestos Consulting
18385 Mariposa Avenue
Riverside, CA 92508
951-675-4062
Summary:

The purpose of this assessment is to determine the amount of asbestos on the windows of four structures at the Jensen Alvarado Ranch. A total of 6 bulk building material samples were taken for analysis which resulted in a total of 6 analyses. None of the samples analyzed were found to contain one percent or greater asbestos. The result of the laboratory analysis can be found in Table 1 and in the appendix. Sampling locations are illustrated in diagram.

Heidi Barrios, a Certified Asbestos Consultant, (#17-5974) and a State of California, Division of Occupational Safety and Health (DOSH) Certified Building Inspector, (CA-015-05) conducted the inspection on April 6, 2018.

See "CONCLUSION" for required actions by the owner and/or responsible party.
AQMD ASBESTOS SURVEY

1.0 Purpose of Survey:

The Clean Air Act required the USEPA to develop and enforce regulations to protect the general public from exposure to airborne contaminants known to be hazardous to human health. The EPA established the National Emission Standards for Hazardous Air Pollutants (NESHAP) under the authority of Section 112 of the Clean Air Act.

The Asbestos NESHAP requires that a thorough asbestos survey be conducted prior to commencement of any renovation or demolition, and specifies that building materials containing greater than 1% asbestos are considered asbestos-containing material (ACM) and is considered asbestos waste. In addition, the provisions of the California Labor Code, Section 6501.8 (b) and Title 8, CCR 341.6 specify that asbestos-containing construction material (ACCM) is identified as any manufactured construction material greater than 0.1 % asbestos. This standard is for occupational exposure.

Evaluation of the possible sources of ACM in the accessible areas of the above mentioned structures must be completed in accordance with South Coast Air Quality Management District (AQMD) rule 1403 prior to renovation or demolition of building structures.
2.0 Sampling Methodology:

2.1 Quantity of Samples:

The survey was conducted in accordance with guidelines established by the U.S. EPA in its 1985 publication, Guidance For Controlling Asbestos Containing Materials in Buildings, Office of Pesticides and Toxic Substance, EPA 560/5-85-024, and the requirements of the Asbestos NESHAP and the local AQMD. Certain aspects of the U.S. EPA’s Asbestos Hazard Emergency Response Act (AHERA) bulk sampling protocol were used in the visual inspection to physically assess each sample and to categorize sampled materials.

For friable materials the provisions of 40 CFR 763.107 are followed (minimum of 3 samples for suspected friable building materials).

For non-friable materials [tile, roofing products, vinyl floor coverings, transite sheeting and pipes (may be assumed to be asbestos containing building material (ACBM)), sheet rock, stucco, etc.] sufficient number of samples based on industrial hygienist experience and judgment shall be taken to determine presence of asbestos. Frequently, one sample may be sufficient for each building material type.

2.2 Gathering Suspected Asbestos-Containing Material:

Each suspect ACBM identified was sampled in accordance with sampling guidelines established by USEPA.

First, the suspected material is wetted with water to minimize possible fiber release. Tools are then used to free the suspect material from its substrate. The material is then placed in its own sample bag and labeled with a unique number (“Client’s Sample Number”). The samples are then transported to the lab for analysis.

3.0 Analysis:

Asbestos bulk analysis using dispersion staining and polarized light microscopy (PLM) was used. The methodology used is EPA 600/ R-93/116. QuanTEM Laboratories at 2033 Heritage Drive, Oklahoma City, OK is a National Voluntary Laboratory Accreditation Program (NVLAP) accredited laboratory (Lab code 101959). Phone # (405) 755-7272.
4.0 Findings:

Diagram 1 illustrates an overview of property and bulk building sampling locations taken from the structure.

5.0 Discussion Concerning Inaccessible Areas:

An inspection was made of all accessible areas on the site. Based on the material present at the site it is unlikely that additional asbestos containing material may be found.

An area is considered accessible if it can be fully explored. If the inspector feels it is unsafe to enter an area, or if size considerations restrict entry, the area is considered inaccessible. Speculations on whether an area might contain asbestos are based on the inspector’s knowledge and experience.

6.0 Building Materials Not Containing Asbestos

The following suspect materials were tested and no asbestos was detected:
Grey window putty.

7.0 Conclusion:

Asbestos containing building materials were not present, on the windows of the sites surveyed.

8.0 Recommendations:

South Coast AQMD Rule 1403 does not require notification for renovations with no asbestos, or asbestos content less than or equal to 1%. Other Rule 1403 requirements such as emissions controls and recordkeeping apply.
Diagram 1 - Asbestos Sampling Points: 4307 Briggs Street Riverside, CA

An “X” illustrates the locations of samples taken, + indicates positive ACM sample and – indicates a negative ACM sample. The client’s sample number (for reference to the lab report in the appendix) may be obtained by attaching the prefix "JA - " to each location number.
<table>
<thead>
<tr>
<th>QuanTEM Sample ID</th>
<th>Client Sample ID</th>
<th>Composition</th>
<th>Color / Description</th>
<th>Asbestos (%)</th>
<th>Non-Asbestos Fiber (%)</th>
<th>Non Fibrous</th>
</tr>
</thead>
<tbody>
<tr>
<td>001</td>
<td>JA-1</td>
<td>Homogeneous</td>
<td>Gray, Putty</td>
<td>Asbestos Not Present</td>
<td>NA</td>
<td>CaCO3</td>
</tr>
<tr>
<td>002</td>
<td>JA-2</td>
<td>Homogeneous</td>
<td>Gray, Putty</td>
<td>Asbestos Not Present</td>
<td>NA</td>
<td>CaCO3</td>
</tr>
<tr>
<td>003</td>
<td>JA-3</td>
<td>Homogeneous</td>
<td>Gray, Putty</td>
<td>Asbestos Not Present</td>
<td>NA</td>
<td>CaCO3</td>
</tr>
<tr>
<td>004</td>
<td>JA-4</td>
<td>Homogeneous</td>
<td>Gray, Putty</td>
<td>Asbestos Not Present</td>
<td>NA</td>
<td>CaCO3</td>
</tr>
<tr>
<td>005</td>
<td>JA-5</td>
<td>Homogeneous</td>
<td>Gray, Putty</td>
<td>Asbestos Not Present</td>
<td>NA</td>
<td>CaCO3</td>
</tr>
<tr>
<td>006</td>
<td>JA-6</td>
<td>Homogeneous</td>
<td>Gray, Putty</td>
<td>Asbestos Not Present</td>
<td>NA</td>
<td>CaCO3</td>
</tr>
</tbody>
</table>
## ASBESTOS CHAIN OF CUSTODY

**Company:** Inland Empire Asbestos Consulting  
**Contact:** Audi Barrios  
**Account #:** 6444  
**Sampled By:** Audi Barrios  
**Relinquished By:** Audi Barrios  
**Date & Time:** 6-21-18 8:00am  
**Via:** Fed Ex  
**Received By:** The samples were received by the laboratory on 6-21-18 at 10:35am.

### Requested Services

<table>
<thead>
<tr>
<th>PLM</th>
<th>PLM</th>
<th>TEM</th>
<th>TEM</th>
<th>Turnaround Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>Rush</td>
</tr>
</tbody>
</table>

### Analysis

<table>
<thead>
<tr>
<th>No.</th>
<th>Sample ID</th>
<th>To Be Analyzed</th>
<th>Color</th>
<th>Description</th>
<th>Volume/Area (as applicable)</th>
<th>Comments/Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>JA-1</td>
<td>☐</td>
<td>Gray</td>
<td>Putty</td>
<td>Window</td>
<td>Bldg 1</td>
</tr>
<tr>
<td>2</td>
<td>JA-2</td>
<td>☐</td>
<td>Gray</td>
<td>Putty</td>
<td>Window</td>
<td>Bldg 3</td>
</tr>
<tr>
<td>3</td>
<td>JA-3</td>
<td>☐</td>
<td>Gray</td>
<td>Putty</td>
<td>Window</td>
<td>Bldg 3</td>
</tr>
<tr>
<td>4</td>
<td>JA-4</td>
<td>☐</td>
<td>Gray</td>
<td>Putty</td>
<td>Window</td>
<td>Bldg 4</td>
</tr>
<tr>
<td>5</td>
<td>JA-5</td>
<td>☐</td>
<td>Gray</td>
<td>Putty</td>
<td>Window</td>
<td>Bldg 4</td>
</tr>
<tr>
<td>6</td>
<td>JA-6</td>
<td>☐</td>
<td>Gray</td>
<td>Putty</td>
<td>Window</td>
<td>Bldg 2</td>
</tr>
</tbody>
</table>

**Notes:**  
- The samples were analyzed for asbestos content.  
- The results are pending.  
- The samples were received by the laboratory on 6-21-18 at 10:35am.

---

*SATURDAY FEDEX SAMPLE DELIVERY - CALL TO SCHEDULE*  
Use this address for Saturday Delivery only: 4220 N. Santa Fe Ave, Oklahoma City, OK 73105-8317  
Mark package "Hold for Saturday Pickup"  
Please Note - UPS and USPS are NOT available for Saturday Delivery.