



**Galson Laboratories  
Pacific Rim  
ANALYTICAL REPORT**

Friday, November 08, 2013

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**Galson Job No:** 20134371

**Your Project:** Tripler E Wing Exterior Asbestos Survey, Proj No. 2013-0214

**Bulk Asbestos Determination**

Sample No.	Your Sample Description	Asbestos Present?	Type	%v/v	Other Fibrous	% v/v	Matrix	% v/v	Date Received	Date Analyzed
20131108019	2013-0214-A16, Grey Caulking, 11-05-13 <u>Layer</u> <u>Caulking material / Paint / spackle</u>	Yes	Chrysotile	6	Cellulose (undulose extinction)	< 3	Calcite + quartz + binder + polymeric binder + other	> 91	11/8/2013	11/8/2013
Comments Multi-colored paint/spackle materials on grey caulking material, black specks and grey cement material with aggregate. Multi-colored paint/spackle materials on grey caulking material and black specks.										
20131108019	2013-0214-A16, Grey Caulking, 11-05-13 <u>Layer</u> <u>Cement material / aggregate</u>	NONE DETECTED			None Detected	< 1	Calcite + quartz + binder + cement + aggregate	> 99	11/8/2013	11/8/2013
Comments Multi-colored paint/spackle materials on grey caulking material, black specks and grey cement material with aggregate. Grey cement material with aggregate.										
20131108022	2013-0214-A19, Black Caulking, 11-05-13 <u>Layer</u> <u>Whole Sample Basis</u>	Yes	Chrysotile	6	Cellulose (undulose extinction)	< 3	Calcite + quartz + binder + polymeric binder + other	> 91	11/8/2013	11/8/2013
Comments Pink/black/beige caulking material.										

Galson Laboratories Pacific Rim is a NIST NVLAP ACCREDITED LABORATORY (NVLAP Lab Code 200655-0). Galson Laboratories Pacific Rim is an ANALYTICAL FACILITY ACCREDITED in accordance with the recognized ISO/ IEC 17025:2005.

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## Bulk Asbestos Determination

Sample No.	Your Sample Description	Asbestos Present?	Type	%v/v Other Fibrous	% v/v Matrix	% v/v	Date Received	Date Analyzed
20131108025	2013-0214-A22, Black Window Caulking, 11-05-13	NONE DETECTED		Synthetic fibers (undulose extinction)	< 10	Calcite + quartz + polymeric binder + other	> 90	11/8/2013 11/8/2013
<u>Layer</u>	<u>Whole Sample Basis</u>							
Comments Black window caulking material with red specks.								
20131108026	2013-0214-A23, Black Window Caulking, 11-05-13	NONE DETECTED		Synthetic fibers (undulose extinction)	< 12	Calcite + quartz + polymeric binder + other	> 88	11/8/2013 11/8/2013
<u>Layer</u>	<u>Whole Sample Basis</u>							
Comments Black waxy window caulking material with brown powdery material and red specks.								
20131108027	2013-0214-A24, Black Window Caulking, 11-05-13	NONE DETECTED		Synthetic fibers (undulose extinction)	< 10	Calcite + quartz + polymeric binder + other	> 90	11/8/2013 11/8/2013
<u>Layer</u>	<u>Whole Sample Basis</u>							
Comments Black waxy window caulking material with brown powdery material and red specks.								

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#### General Comments

The bulk samples analyses subject of this analytical report were conducted in general accordance with the procedures outlined in the United States Environmental Protection Agency's "Interim Method for the Determination of Asbestos in Bulk Insulation Samples" (EPA-600/M4-82-020, Dec. 1982) and/or "Method for Determination of Asbestos in bulk Building Materials" (EPA-600/R-93-116, July 1993). The analysis of each bulk sample relates only to the material examined, and may or may not represent the overall composition of its original source. Floor tile and other resinously bound materials, when analyzed by the EPA methods referenced above may yield false negative results because of limitations in separating closely bound fibers and in detecting fibers of small length and diameter. Alternative methods of identification, including Transmission Electron Microscopy (TEM) may or may not be applicable and suffer from serious analytical limitations of their own including a lack of standardized or accredited methodology. We utilize calibrated visual area estimation on a routine basis and do not conduct point counting unless specifically requested to do so. Estimated error for the visual determinations presented are 50% relative (1 to 5%); 25% relative (6 to 25%) and 20% (>26% v/v). Whole sample percentage results are estimated on the basis of the relative "volume" of each readily discernable layer. We will not separate layers which in our opinion are not readily discernable. This report is not to be duplicated except in full without the expressed written permission of Galson. This report must not be used by the client to claim product certification, approval or endorsement by NVLAP, NIST or any agency of Federal Government. Unless otherwise indicated, the sample condition at the time of receipt was acceptable.

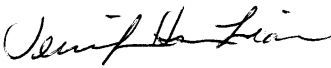
#### Results and Symbols Definitions

None Detected = asbestos was not observed in the sample.

Tr = Trace (<1%), i.e., asbestos WAS detected BELOW our quantifiable limits of 1.0%. Gravimetric reduction and point counting, where applicable, are recommended to improve accuracy.

> This testing result is greater than the numerical value listed.

< This testing result is less than the numerical value listed.



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**Ms. Jennifer Hsu Liao**  
**Laboratory Manager**

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