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Certificate of Analysis

Client Name CTL Thompson
Street address 351 Linden St, Suite140
City, State ZIP Fort Collins, CO 80524
Attn: Jennifer Sorrentino
Client Project Name:



NVLAP Lab Code 200860-0

Date Collected: 11/28/12
Date Received: 11/29/12
Date Analyzed: 12/01/12
Date Reported: 12/06/12
Project ID: 12015473
Job ID:

Test Requested: 3002, Asbestos in Bulk Samples
Method: Polarized Light Microscopy / Dispersion Staining (PLM), Method for the Determination of Asbestos in Bulk Building Materials. EPA-600/R-93/116, July 1993.

Sample Identification		Physical Description of Sample/Layer	Homo- geneous (Y/N)	Layer Percentage	Asbestos Detected	Asbestos Percentage	Non-Asbestos Fiber Percentage	Non-Fibrous Material Percentage	Matrix Material Composition
Client	Lab Sample Number								
VAMC-BLDG11-INS1-01	12015473-1	Gray Fibrous Insultation	N	100%	CHRY	8	82	10	
VAMC-BSMTELE-INS2-01	12015473-2	Gray Fibrous Insultation	N	100%	CHRY	10	80	10	
VAMC-CABSMT-INS3-01	12015473-3	White Plaster	N	100%	ND		5	95	C
VAMC-BOILER13-INS4-01	12015473-4	Gray Insulation	N	100%	ND		95	5	
VAMC-BOILER13-INS5-01	12015473-5	White Fibrous Plaster	N	100%	CHRY	20	Trace	80	C

Richard Wegrzyn
Laboratory Analyst

Ron Weyand
Asbestos Laboratory Supervisor

A = Amosite
AC = Actinolite
AN = Anthophyllite
CHRY=Chrysotile
CR = Crocidolite
TR = Tremolite
Trace=Less Than 1%
ND=None Detected

Q = Quartz
C = Carbonates
G = Gypsum
M = Mica
T = Tar
NTR = Non-Asbestiform TR
NAC = Non-Asbestiform AC

P = Perlite
B = Binder
D=Diatoms



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General Notes

- ◆ **ND** indicates no asbestos was detected; the method detection limit is 1 %.
- ◆ **Trace** or "<1" indicates asbestos was identified in the sample, but the concentration is less than 1%.
- ◆ All regulated asbestos minerals (i.e. chrysotile, amosite, crocidolite, anthophyllite, tremolite, and actinolite) were sought in every layer of each sample, but only those asbestos minerals detected are listed. Amosite is the common name for the asbestiform variety of the minerals cummingtonite and grunerite. Crocidolite is the common name used for the asbestiform variety of the mineral riebeckite.
- ◆ Tile, vinyl, foam, plastic, and fine powder samples may contain asbestos fibers of such small diameter (< 0.25 microns in diameter) that these fibers cannot be detected by PLM. For such samples, more sensitive analytical methods (e.g. TEM, SEM, and XRD) are recommended if greater certainty about asbestos content is required. Semi-quantitative bulk TEM floor tile analysis is accepted under NESHAP regulations.
- ◆ These results are submitted pursuant to Aerobiology Laboratory Associates, Inc.'s current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions. No responsibility or liability is assumed for the manner in which the results are used or interpreted.
- ◆ Unless notified in writing to return the samples covered by this report, Aerobiology Laboratory Associates, Inc. will store the samples for a minimum period of thirty (30) days before discarding. A shipping and handling charge will be assessed for the return of any samples.
- ◆ Aerobiology does not guarantee the results of tape lifts, microvacs, wipe, and/or debris samples. Accurate analysis cannot be performed due to particle size, media used, and/or amount of material given. Analysis of these materials should be performed by a TEM. ***A result of ND does not indicate that the sample area does not contain asbestos. It means the analyst could not identify asbestos in the specific sample for the reasons listed above.***

Notes Required by NVLAP

- ◆ This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.
- ◆ This test report relates only to the items tested or calibrated.
- ◆ This report is not valid unless it bears the name of a NVLAP-approved signatory.
- ◆ Any reproduction of this document must include the entire document in order for the report to be valid.