



RFP #836-19P Quigley Roof Replacement

**Addendum 003
Issued March 4, 2019**

Core Sample Results are attached hereto. Per Addendum 002, all Requests for Proposals are Due Monday, March 11, 2019.

Bidders to include statement of whether or not bidder can perform the abatement work necessary for the asbestos described in Sample Identification TR-01, and what the cost would be, or in the alternative, if another contractor would need to perform such work.

Certificate of Analysis

Client Name: Apex Companies, LLC - Lakewood
Street address: 1746 Cole Blvd. Ste 250
City, State ZIP: Lakewood, CO 80401
Attn: Chris Thompson
Client Project Name: 5706 / CMC



Date Collected: 02/28/19
Date Received: 03/01/19
Date Analyzed: 03/01/19
Date Reported: 03/01/19
Project ID: 19008153

Test Requested: **3002, Asbestos in Bulk Samples**
Method: EPA/600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

Sample Identification		Physical Description of Sample/Layer	Homogeneous (Y/N)	Layer Percentage	Asbestos Detected	Asbestos Percentage	Non-Asbestos Fiber Percentage	Non-Fibrous Material Percentage	Matrix Material Composition
Client	Lab Sample Number								
LR-01	19008153-1A	Brown Fibrous Material	N	5%	ND		60	40	P
	19008153-1B	Black Roofing	N	95%	ND		30	70	T
LR-02	19008153-2	Brown Fibrous Material	N	100%	ND		80	20	P
LR-03	19008153-3A	Yellow Foam	N	20%	ND			100	B
	19008153-3B	Brown Fibrous Material	N	30%	ND		99	1	
	19008153-3C	Black Tar	N	50%	ND			100	T
TR-01	19008153-4	Black Roofing	N	100%	ND		20	80	T
TR-02	19008153-5	Black Roofing	N	100%	CHRY	20	10	70	T
TR-03	19008153-6A	Yellow Foam	N	20%	ND			100	B
	19008153-6B	Black Fibrous Tar	N	80%	ND		50	50	T



Paul Knappe
Laboratory Analyst



Talena Oliver
Asbestos Lab Supervisor

AC = Actinolite AH = Animal Hair B = Binder Q = Quartz
AM = Amosite CL = Cellulose C = Calcareous T = Tar
AN = Anthophyllite FG = Fibrous Glass D = Diatoms V = Vermiculite
CHRY = Chrysotile MW = Mineral Wool G = Gypsum
CR = Crocidolite OT = Other M = Mica
TR = Tremolite SYN = Synthetic OR = Organic
Trace = < 1% TL = Talc OP = Opaques
ND = None Detected W = Wollastonite P = Perlite

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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% and cannot be quantified without point counting.
- Samples identified as inhomogeneous (more than one layer) are separated into individual layers, and each layer is analyzed and reported separately.
- 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, microvac, 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.