



Sent via e-mail only

Hanson Aggregates Pennsylvania LLC
7660 Imperial Way
Allentown, PA 18195-1040
Tel 610-366-4600
Fax 610-871-5994

August 14, 2020

Gary A. Latsha
District Mining Manager
Pottsville District Mining Office
Pennsylvania Department of Environmental Protection
5 West Laurel Boulevard
Pottsville, PA 17901

**Re: Additional Sample Analyses
Rock Hill Quarry
Hanson Aggregates Pennsylvania LLC
SMP # 7974SM1
East Rockhill Twp., Bucks Co., PA**

Mr. Latsha:

Hanson Aggregates Pennsylvania LLC (Hanson) is providing the attached correspondence to address the Department's request for naturally occurring asbestos (NOA) analysis that thoroughly and comprehensively identifies the amount of NOA at the quarry and is congruent with the regulatory definitions of NOA. The sampling requirements were provided by the Department in the September 20, 2019 and March 2, 2020 letters.

The following correspondence is provided for the Department's review and consideration:

- August 14, 2020 RJ Lee Group Sample Analyses Report detailing the Department requested TEM analyses and reanalysis of the water samples using EPA Method 100.1; and,
- August 14, 2020 RJ Lee Group Petrographic Analysis Report detailing three (3) core samples of diabase from Rock Hill Quarry.

Please feel free to contact me at (610) 366-4819 should you wish to discuss this submission.

Regards,



Andrew J. Gutshall, P.G.
Area Environmental Manager

encl: RJ Lee Group Sample Analyses Report to Andrew J. Gutshall, P.G. dated
August 14, 2020
RJ Lee Group Petrographic Analysis Report to Andrew J. Gutshall, P.G. dated
August 14, 2020

cc: John Stefanko, PADEP (e-mail only)
Daniel Sammarco, P.E., PADEP (e-mail only)
Michael P. Kutney, P.G., PADEP (e-mail only)
Richard Tallman, P.E., PADEP (e-mail only)
Randy Shustack, PADEP (e-mail only)
Amiee Bollinger, PADEP (e-mail only)
Thomas Boretski, PADEP (e-mail only)
Patrick Patterson, PADEP (e-mail only)
James Rebarchak, PADEP (e-mail only)
Sachin Shankar, P.E., PADEP (e-mail only)
Jillian Gallagher, PADEP (e-mail only)
Shawn Mountain, PADEP (e-mail only)
Robert Fogel, PADEP (e-mail only)
Neil Shader, PADEP (e-mail only)
Virginia Cain, PADEP (e-mail only)
Craig Lambeth, Esq., PADEP (e-mail only)
Marianne Morano, East Rockhill Township (e-mail only)
County of Bucks (e-mail only)
Rockhill Environmental Preservation Alliance (e-mail only)
David J. Raphael, Esq., K&L Gates LLP (e-mail only)
Kelly Bailey, CIH, KBC LLC (e-mail only)
Bryan Bandli, RJ Lee Group (e-mail only)
Michael Fling, P.E., EARTHRES (e-mail only)
Matthew Weikel, P.G., EARTHRES (e-mail only)
Mark E. Kendrick, Hanson (e-mail only)
Christopher J. Mitchell, Esq., Hanson (e-mail only)
Michael C. Lewis, CHMM, Hanson (e-mail only)
Timothy J. Poppenberg, Hanson (e-mail only)
Environmental File

RJ Lee Group Sample Analyses Report

August 14, 2020

August 14, 2020

Andrew Gutshall
Lehigh Hanson, Inc.
7660 Imperial Way
Allentown, PA 18195

RE: Sample Analyses
RJ Lee Group Project Number: LLH901997

Mr. Gutshall,

RJ Lee Group has completed the analyses of a number of samples (rock and water) collected at the Rockhill Quarry. This report details the analytical methods used in this project and additional analytical results requested by the Pennsylvania Department of Environmental Protection (PADEP).

Water Samples

Seven (7) water samples were received on April 22, 2019. These samples, listed in Table 1, were collected from the quarry pit and the outfalls of the various settling ponds. Each sample was prepared and re-analyzed in accordance with EPA 100.1 (*Analytical Method for Determination of Asbestos Fibers in Water*) at the request of PADEP. The examination was conducted looking for any mineral fiber that met the counting criteria, including any non-regulated mineral species.

The samples were analyzed to an analytical sensitivity¹ of between 0.3 – 1.0 million fibers per liter (MFL). Two asbestos fibers were detected during these analyses. One of the asbestos fibers was determined to be chrysotile, the other fiber detected was determined to be actinolite asbestos consistent with what has been observed in the rocks present at Rockhill Quarry. No chrysotile or serpentine group minerals have been observed in any of the analyses of the rocks from the Rockhill Quarry, so the origin of this fiber is likely some other source. The dimensions of the observed chrysotile fiber was 1.15 µm long by 0.05 µm wide and the observed amphibole fiber was 5.1 µm long, 0.35 µm wide. Table 2 summarizes the findings of the analysis of the water samples and laboratory reports are included in Appendix B.

Bulk Samples

Grab samples from existing stockpiles, portions of drill cores, and samples collected from boulders in the quarry were received and analyzed. The sample identifications are shown in Table 3. Each as-received sample was photographed. The purpose of these examinations was to look for any asbestos fibers using polarized light microscopy (PLM). The PLM analyses were conducted in accordance with EPA 600/R-93/116 (*Method for the Determination of Asbestos in Bulk Building Materials*) and were reported in the Qualitative Geologic Survey Report (prepared by EarthRes Group, Inc – dated 11/15/2019).

Each sample was initially examined using a stereo binocular microscope to look for veins or seams that could be asbestos fibers. As none were seen, the samples were then prepared for PLM analysis by

¹ Analytical sensitivity is the concentration for one counted fiber.

pulverization using a Bico laboratory jaw crusher and a Bico Type US disc pulverizer. The intent of the pulverization is to reduce the particle size enough such that light could pass through any possible asbestos minerals without over-pulverizing the samples (which could damage any asbestos fibers thus preventing their identification^{2,3}). This method of reducing the size of the particles is consistent with the procedure described in CARB 435 (*Determination of Asbestos Content of Serpentine Aggregate*).⁴

Quantitation of the asbestos content of the samples was performed by PLM using the point counting technique. One thousand randomly selected, non-empty points were counted, classifying each counted particle as asbestos or non-asbestos. Elongated non-asbestos amphibole particles were also separately counted. If an asbestos fiber was observed in the PLM field of view but did not fall below the cross hairs, the optical properties of the fiber were determined and recorded and the result (absent any other counted asbestos points) reported as “< 0.1%”.

The PLM analytical results for these samples were submitted to the Department in the Qualitative Geologic Survey Report (prepared by EarthRes Group, Inc – dated 11/15/2019). Of the 57 bulk samples, 49 contained non-asbestos amphibole particles and 16 were found to contain some amphibole asbestos. Representative photographs of the asbestos fibers were recorded. An example is shown in Figure 1 of actinolite asbestos observed in sample 2-RH#2 (RJLG #3158824).

Additional petrographic analysis of three core samples was reported in August of 2020 and provided under separate cover. The summary of that analysis indicated that there are alteration features present in the rocks that have resulted in the observation that veins of amphibole as well as pseudomorphic alteration of clinopyroxene to monoclinic calcic amphibole (tremolite/actinolite) exist in the analyzed samples to varying degrees. The morphology of the amphibole observed varies from prismatic to fibrous.

The recent TEM analyses were conducted per requirements requested by PADEP. The portions of the pulverized samples were prepared and analyzed for TEM analysis by suspending a known mass into filtered deionized water and briefly sonicating the sample in an ultrasonic bath. An aliquot of the suspension was filtered through a preweighed 0.2 µm polycarbonate membrane filter. After drying, the filter was weighed to determine the mass deposited. A portion of the filter was prepared for TEM analysis by following the procedure in Chatfield⁵ using calibrated 200 mesh copper TEM support grids. The prepared grids were analyzed by TEM and structures were analyzed in accordance with EPA 600/R-93/116 (and ISO 22262 series) to determine the amounts of asbestiform and non-asbestiform amphibole present, and ISO 10312 to determine total countable structures > 0.5 µm long. EPA 600/R-93/116 and ISO 22262 series are designed for analysis of bulk materials (such as rocks) and ISO 10312 is designed for analysis of airborne particulate. In each of the methods, all particles with dimensions of length ≥ 0.5 µm, aspect ratio (length:width) ≥ 3:1 are counted and the mineral identity of each counted particle determined using a combination of energy dispersive x-ray spectroscopy (EDS) to determine the chemical composition and

² D. Van Orden, J. Wilmoth, and M. Sanchez (2012). “Effect of Size Reduction Processes on the Apparent Fiber Content of Rock Samples”, *The Microscope*, 60, p. 3-9.

³ O. Baietto, M. Diano, G. Zanetti, and P. Marini (2019). “Grinding Test on Tremolite with Fibrous and Prismatic Habit”, *Fibers*, 7, 52, doi:10.3390/fib7060052.

⁴ Additional information on CARB 435 can be found in “*Implementation Guidance Document: Field Sampling and Laboratory Practices*”, California Environmental Protection Agency, Air Resources Board, April 2017. <https://ww3.arb.ca.gov/toxics/asbestos/tm435/tm435.htm>.

⁵ Chatfield E.J. (2000): A rapid procedure for preparation of transmission electron microscopy specimens from polycarbonate filters. *ASTM STP 1342, Advances in Environmental Measurement Methods for Asbestos*, Michael E. Beard and Harry L. Rook, Eds., 242-249

selected area electron diffraction (SAED) to determine the crystal structure. The morphology of each counted amphibole particle was characterized as asbestiform or non-asbestiform (i.e. cleavage) using the asbestiform definitions provided in EPA 600/R-93/116 and ISO 22262-1 for each of those analyses. For ISO 10312, counted structures were classified according to ISO 10312, Annex C. The same grid openings for each sample were counted using all three methods. Explanations of the mass concentration calculations and laboratory report headings are provided in Appendix A. Laboratory reports and benchsheets for each analysis are provided in Appendix C. Summary tables of the laboratory reports are provided as Tables 4-6.

Discussion

The 57 bulk samples were analyzed by TEM to determine the mass concentration of asbestos. A total of 2439 structures were counted by EPA 600/R093/116 & ISO 22262, and 2425 by ISO 10312⁶. The population of particles represents a mixed asbestiform/non-asbestiform population of particles. This supports observations of the samples reported previously. Figures 2-3 present representative electron micrographs of asbestiform fibers and non-asbestiform particles observed in the TEM analysis.

The TEM analyses of the aggregate piles indicate that there is actinolite asbestos present in 9 of the samples. This asbestos was observed at concentrations below 0.23% (EPA 600/R-93/116). There is no significant difference in concentration of actinolite asbestos when comparing PLM and TEM results for the same samples. Where the PLM reported non-detect for asbestos, TEM either confirmed the non-detect, or determined the concentration to be much lower than the analytical sensitivity of the PLM technique, with only one exception. This indicates the utility of PLM as a screening test for crushed aggregate samples. This is further supported by the use of PLM for the testing of aggregate in methods required for use in California⁷ and Nevada⁸. The TEM analysis determined asbestos was present in 9 of the 16 crushed aggregate samples, at concentrations \leq 0.23% (average 0.049%).

The TEM analyses of samples collected from drill core, the quarry face, and selected boulders on the quarry site show a wider variation in results and show that 23 of the 41 samples in this group contain actinolite asbestos. Some of the samples contain higher concentrations (up to 13%) which is not unexpected given the targeted nature of the sampling strategy. Samples that contained macroscopic veins of amphibole were found to contain the highest concentrations of amphibole asbestos. In the 23 samples where asbestos was detected by TEM, the average concentration (EPA 600/R-93/116) is 1.39%. Sample 18 - RH #26 (3158840) was found to contain numerous non-asbestos or non-amphibole structures on the order of 200-300 per grid opening. These particles are consistent with clay weathering products of feldspar minerals and are easily distinguished from amphibole particles. These structures were not included in the counts for this sample.

TEM analysis excels at enumerating (counting) and identifying microscopic fibers that had been suspended in air and collected onto membrane filters from a known volume of air. This count of fibers is

⁶ The reason for the different total counts is that EPA 600/R-93/116 & ISO 22262 does not examine adjacent grid openings and structures touching the edges of a grid opening are included in the count. In ISO 10312, there is no specification to examining adjacent grid openings, so any structure touching either the left or top edges of the grid opening are excluded from the count to avoid double counting structures that cross from one opening to an adjacent opening.

⁷ ARB Monitoring and Laboratory Division (2017). *Implementation Guidance Document: Field Sampling and Laboratory Practices*, California Environmental Protection Agency, Air Resources Board, April 2017.

⁸ Nevada DOT (2019). *Documenting Naturally Occurring Asbestos and Erionite in Import Material from Non-Nevada Department of Transportation Sources for Project*, Department of Transportation, Version 2.0, February 11, 2019.

used to determine the numerical concentration of respirable fibers per volume of sampled air. TEM has been shown to be a very precise tool to accomplish this task. However, the method used in this study (ISO 10312) was developed to analyze airborne asbestos fibers and does not attempt to differentiate fibers of asbestiform from non-asbestiform morphologies.

The use of TEM for the quantification of the mass concentration of asbestos in a bulk material is challenging to interpret. As discussed above, because of the exceedingly small mass analyzed during a typical TEM analysis it is difficult to assume the mass analyzed is representative of the entire sample. Where an air sample collected from a dusty environment may contain a total of a few micrograms of material (1 microgram is 0.000001 g), locating and identifying fibers that may have a mass of only a few picograms (1 picogram is 0.000001 microgram) would still be reasonably representative on the scale of the total mass collected in the sample. However, when bulk materials are examined at the kilogram scale, the ability to meaningfully extrapolate the mass observed by TEM up to the scale of a representative sample of the material of concern is lost. If a fiber of 1 picogram is observed, this represents 1×10^{-15} kilogram (0.000000000000001 kg).

Reliance on TEM alone as an assessment of the quantity of asbestos in natural bulk materials, such as rock, is of limited value based on the extreme difference in the amount of material present on the site and the amount of material analyzed by TEM. As an example, one kilogram of sample is approximately half of the initial sample size required to be provided to the laboratory by CARB 435 to be analyzed by PLM. The sample is ground, and several grams of ground material are produced. From this ground sample, approximately 0.001 g is analyzed by PLM during the EPA 600/R-93/116 analysis performed by RJLG for this study. For the TEM analysis, approximately 0.0004 – 0.0005 g of ground sample is dispersed onto a 47 mm diameter polycarbonate membrane filter and of that, only approximately 0.00000009 g is actually examined during the TEM analysis. This is over 100,000 times less mass than is observed by PLM. Based on RJ Lee Groups extensive experience, it would take 77 years to examine by TEM the same mass analyzed using PLM in a single analysis which can be completed in less than 1 hour.

Because of the large scaling factors involved, sampling error, such as nugget effects, can become very significant in TEM analysis. It is well understood by the analytical community that the significance of large structures observed during a TEM analysis have a large impact on the mass concentration calculations. The limited statistical significance of a single large structure observed during an analysis needs to be taken into account with interpreting mass concentration results produced from a TEM analysis of a bulk material. Several samples contained in this report contain large structures that appear to have a significant effect on the calculated asbestos concentrations.

To utilize PLM and TEM in conjunction to determine the presence, quantity, and mineral identity of asbestos in a bulk material is a sound approach. PLM is useful for identification of asbestos minerals and quantification of the mass proportion of asbestos as well as assessment of the morphology of amphibole minerals detected. TEM is useful for detecting the presence of mineral fibers below the resolution limit of PLM and for identification of those minerals. To rely on any single technique without the support of the other may lead to spurious results and misinterpretation.

If you have any questions regarding this report, please do not hesitate to contact me directly.

Sincerely,

A handwritten signature in black ink, appearing to read 'Bryan Bandli', written in a cursive style.

Bryan Bandli, Ph.D.
Principal Investigator

Table 1. Water Samples Analyzed for Possible Asbestos Content.

Field Sample Identification	RJ Lee Group Sample Number
#1 NPDES Outfall	3158173
#2 Sed. Trap 2	3158174
#3 Sed. Basin 2	3158175
#4 Sed. Basin 1	3158176
#5 Quarry Pit	3158177
#6 Sed. Trap 1	3158178
#7 Sed. Trap 3	3158179

Table 2. Summary of EPA 100.1 analysis of water samples.

Field Sample Identification	RJ Lee Group Sample Number	Asbestos Structures >0.5 μ m		Analytical Sensitivity (MFL)	Concentration (MFL)
		Chrysotile	Amphibole		
#1 NPDES Outfall	3158173	0	0	0.2	<0.2
#2 Sed. Trap 2	3158174	0	0	1.0	<1.0
#3 Sed. Basin 2	3158175	0	0	0.6	<0.6
#4 Sed. Basin 1	3158176	0	0	0.3	<0.3
#5 Quarry Pit	3158177	0	0	0.3	<0.3
#6 Sed. Trap 1	3158178	0	1	1.0	1.0
#7 Sed. Trap 3	3158179	1	0	1.0	1.0

Table 3. Identification of Rock Samples from Rockhill Quarry.

Field Identification	Descriptor	RJ Lee Group Sample Number
1	2B Aggregate	3158163
2	2B Aggregate	3158164
3	2B Aggregate	3158165
4	2B Aggregate	3158166
5	2B Aggregate	3158167
6	2B Aggregate	3158168
7	2B Aggregate	3158169
8	2B Aggregate	3158170
9	2B Aggregate	3158171
10	2B Aggregate	3158172
11	1B Aggregate	3158157
12	1B Aggregate	3158158
13	2A Aggregate	3158159
14	2A Aggregate	3158160
15	Screenings	3158161
16	Screenings	3158162
#1 - DB-1		3158807
#2 - DB-2		3158808
#3 - DB-3		3158809
#4 - DB-4		3158810
#1 - Hand Sample #1		3158811
#2 - Hand Sample #2		3158812
#3 - Vein 7		3158813

Table 3. Identification of Rock Samples from Rockhill Quarry (continued).

Field Identification	Descriptor	RJ Lee Group Sample Number
#1 - CB-1 #1		3158814
#2 - CB-1 #3		3158815
#3 - CB-2 #4		3158816
#4 - CB-2 #5		3158817
#5 - CB-2 #6		3158818
#6 - CB-3 #7		3158819
#7 - CB-3 #8		3158820
#8 - CB-3 #9		3158821
#9 - CB-4 #10		3158822
1 - RH #1		3158823
2 - RH #2		3158824
3 - RH #3		3158825
4 - RH #4		3158826
5 - RH #5		3158827
6 - RH #6		3158828
7 - RH #7		3158829
8 - RH #8		3158830
9 - RH #10		3158831
10 - RH #11		3158832
11 - RH #12		3158833
12 - RH #14		3158834
13 - RH #18		3158835
14 - RH #22		3158836
15 - RH #23		3158837
16 - RH #24		3158838
17 - RH #25		3158839
18 - RH #26		3158840
19 - RH #27		3158841
20 - RH #28		3158842
21 - RH #29		3158843
22 - RH #30		3158844
23 - RH #31		3158845
24 - RH #32		3158846
25 - RH #33		3158847

Table 4. Summary of EPA 600/R-93/116 TEM analysis.

Field Identification	Descriptor	RJLG Sample ID	Total Structures $\geq 0.5\mu\text{m}$ long, $\geq 3:1$				Weight Percent / Analytical Sensitivity			
			Chrysotile	Amphibole Asbestos	Amphibole Cleavage	Non-asbestos	Chrysotile	Amphibole Asbestos	Amphibole Cleavage	Non-asbestos
11	1B Aggregate	3158157	0	5	14	4	< 2.5E-6/ 2.5E-6	4.5E-3/ 3.1E-6	1.4E-1/ 2.0E-6	2.9E-2/ 1.9E-6
12	1B Aggregate	3158158	0	3	9	4	< 2.5E-6/ 2.5E-6	1.8E-2/ 3.1E-6	1.1E-1/ 2.0E-6	9.6E-2/ 1.9E-6
13	2A Aggregate	3158159	0	23	19	2	< 1.0E-5/ 1.0E-5	2.3E-1/ 1.3E-5	2.9E-1/ 8.0E-6	1.7E-3/ 7.5E-6
14	2A Aggregate	3158160	0	4	5	1	< 2.0E-6/ 2.0E-6	1.3E-3/ 2.5E-6	1.5E-2/ 1.6E-6	6.4E-4/ 1.5E-6
15	Screenings	3158161	0	10	16	2	< 1.7E-6/ 1.7E-6	1.1E-2/ 2.1E-6	1.4E-1/ 1.3E-6	3.5E-3/ 1.2E-6
16	Screenings	3158162	0	2	7	2	< 2.0E-6/ 2.0E-6	6.4E-4/ 2.5E-6	1.3E-1/ 1.6E-6	4.9E-2/ 1.5E-6
1	2B Aggregate	3158163	0	1	2	1	< 3.3E-6/ 3.3E-6	2.0E-3/ 4.2E-6	3.9E-2/ 2.7E-6	9.3E-4/ 2.5E-6
2	2B Aggregate	3158164	0	0	1	3	< 3.3E-6/ 3.3E-6	< 4.2E-6/ 4.2E-6	8.8E-5/ 2.7E-6	4.7E-1/ 2.5E-6
3	2B Aggregate	3158165	0	0	0	1	< 3.3E-6/ 3.3E-6	< 4.2E-6/ 4.2E-6	< 2.7E-6/ 2.7E-6	7.0E-4/ 2.5E-6
4	2B Aggregate	3158166	0	2	1	0	< 5.0E-6/ 5.0E-6	6.1E-3/ 6.3E-6	4.4E-3/ 4.0E-6	< 3.7E-6/ 3.7E-6
5	2B Aggregate	3158167	0	0	3	0	< 5.0E-6/ 5.0E-6	< 6.3E-6/ 6.3E-6	3.6E-3/ 4.0E-6	< 3.7E-6/ 3.7E-6
6	2B Aggregate	3158168	0	0	2	6	< 2.5E-6/ 2.5E-6	< 3.1E-6/ 3.1E-6	1.3E-2/ 2.0E-6	5.6E-3/ 1.9E-6
7	2B Aggregate	3158169	0	0	3	2	< 5.0E-6/ 5.0E-6	< 6.3E-6/ 6.3E-6	9.3E-2/ 4.0E-6	3.6E-3/ 3.7E-6
8	2B Aggregate	3158170	0	0	6	1	< 3.3E-6/ 3.3E-6	< 4.2E-6/ 4.2E-6	1.8E-1/ 2.7E-6	1.1E-2/ 2.5E-6
9	2B Aggregate	3158171	0	4	0	1	< 3.3E-6/ 3.3E-6	1.7E-1/ 4.2E-6	< 2.7E-6/ 2.7E-6	7.4E-2/ 2.5E-6
10	2B Aggregate	3158172	0	0	0	0	< 3.3E-6/ 3.3E-6	< 4.2E-6/ 4.2E-6	< 2.7E-6/ 2.7E-6	< 2.5E-6/ 2.5E-6
#1 - DB-1		3158807	0	3	130	0	< 1.1E-5/ 1.1E-5	7.2E-3/ 1.4E-5	1.0E1/ 8.7E-6	< 8.2E-6/ 8.2E-6

Table 4. Summary of EPA 600/R-93/116 TEM analysis (continued).

Field Identification	Descriptor	RJLG Sample ID	Total Structures $\geq 0.5\mu\text{m}$ long, $\geq 3:1$				Weight Percent / Analytical Sensitivity			
			Chrysotile	Amphibole Asbestos	Amphibole Cleavage	Non-asbestos	Chrysotile	Amphibole Asbestos	Amphibole Cleavage	Non-asbestos
#2 - DB-2		3158808	0	0	15	9	< 2.0E-6/ 2.0E-6	< 2.5E-6/ 2.5E-6	1.1E-1/ 1.6E-6	1.5E-2/ 1.5E-6
#3 - DB-3		3158809	0	0	3	1	< 3.3E-6/ 3.3E-6	< 4.2E-6/ 4.2E-6	2.3E-2/ 2.6E-6	1.9E-2/ 2.5E-6
#4 - DB-4		3158810	0	0	0	2	< 3.3E-6/ 3.3E-6	< 4.2E-6/ 4.2E-6	< 2.6E-6/ 2.6E-6	1.6E-2/ 2.5E-6
#1 - Hand Sample #1		3158811	0	0	48	0	<.3.3E-6/ 3.3E-6	<4.2E-6/ 4.2E-6	4.6E-1/ 2.6E-6	<2.5E-6/ 2.5E-6
#2 - Hand Sample #2		3158812	0	18	58	0	<5.0E-6/ 5.0E-6	2.5E-2/ 6.2E-6	2.1E-1/ 4.0E-6	<3.7E-6/ 3.7E-6
#3 - Vein 7		3158813	0	69	80	0	< 2.1E-5/ 2.1E-5	1.3E1/ 2.6E-5	5.5E0/ 1.7E-5	5.5E0/ 1.7E-5
#1 - CB-1 #1		3158814	0	30	155	0	< 4.5E-5/ 4.5E-5	2.0E0/ 5.6E-5	8.1E1/ 3.6E-5	< 3.4E-5/ 3.4E-5
#2 - CB-1 #3		3158815	0	12	17	0	< 2.0E-6/ 2.0E-6	3.2E-2/ 2.5E-6	2.4E-2/ 1.6E-6	< 1.5E-6/ 1.5E-6
#3 - CB-2 #4		3158816	0	29	48	0	< 1.0E-5/ 1.0E-5	9.4E-2/ 1.3E-5	6.2E-1/ 8.0E-6	< 7.5E-6/ 7.5E-6
#4 - CB-2 #5		3158817	0	81	24	0	< 2.0E-5/ 2.0E-5	2.4E0/ 2.6E-5	1.1E0/ 1.6E-5	< 1.5E-5/ 1.5E-5
#5 - CB-2 #6		3158818	0	51	25	0	< 2.6E-5/ 2.6E-5	1.0E0/ 3.3E-5	2.0E0/ 2.1E-5	< 2.0E-5/ 2.0E-5
#6 - CB-3 #7		3158819	0	1	2	5	< 2.5E-6/ 2.5E-6	1.6E-4/ 3.1E-6	3.2E-2/ 2.0E-6	2.7E-2/ 1.9E-6
#7 - CB-3 #8		3158820	0	83	95	0	< 1.1E-5/ 1.1E-5	1.0E1/ 1.3E-5	1.9E1/ 8.4E-6	< 7.9E-6/ 7.9E-6
#8 - CB-3 #9		3158821	0	1	11	0	< 1.7E-6/ 1.7E-6	1.8E-4/ 2.1E-6	2.4E-2/ 1.3E-6	< 1.2E-6/ 1.2E-6
#9 - CB-4 #10		3158822	0	11	70	1	< 5.0E-6/ 5.0E-6	1.5E-1/ 6.2E-6	9.1E-1/ 4.0E-6	1.1E-3/ 3.7E-6
1 - RH #1		3158823	0	1	46	3	< 5.0E-5/ 5.0E-5	1.2E-3/ 6.2E-5	1.3E0/ 4.0E-6	1.0E-1/ 3.7E-6
2 - RH #2		3158824	0	2	105	0	< 5.0E-6/ 5.0E-6	6.7E-3/ 6.2E-6	1.2E0/ 4.0E-6	< 3.7E-6/ 3.7E-6

Table 4. Summary of EPA 600/R-93/116 TEM analysis (continued).

Field Identification	Descriptor	RJLG Sample ID	Total Structures $\geq 0.5\mu\text{m}$ long, $\geq 3:1$				Weight Percent / Analytical Sensitivity			
			Chrysotile	Amphibole Asbestos	Amphibole Cleavage	Non-asbestos	Chrysotile	Amphibole Asbestos	Amphibole Cleavage	Non-asbestos
3 - RH #3		3158825	0	1	49	0	< 3.3E-6/ 3.3E-6	1.4E-3/ 4.2E-6	2.5E-1/ 2.6E-6	< 2.5E-6/ 2.5E-6
4 - RH #4		3158826	0	1	22	10	< 9.9E-6/ 9.9E-6	6.9E-3/ 1.2E-5	3.1E-1/ 7.9E-6	1.9E-3/ 7.5E-6
5 - RH #5		3158827	0	3	106	0	< 5.0E-6/ 5.0E-6	6.8E-3/ 6.2E-6	9.4E-1/ 4.0E-6	< 3.7E-6/ 3.7E-6
6 - RH #6		3158828	0	11	62	1	< 9.9E-6/ 9.9E-6	1.8E-3/ 1.2E-5	6.0E-1/ 7.9E-6	1.3E-2/ 7.5E-6
7 - RH #7		3158829	0	28	98	0	< 1.2E-5/ 1.2E-5	2.3E0/ 1.5E-5	3.4E0/ 9.6E-6	< 9.0E-6/ 9.0E-6
8 - RH #8		3158830	0	0	20	0	< 3.3E-6/ 3.3E-6	< 4.2E-6/ 4.2E-6	1.3E-1/ 2.6E-6	< 2.5E-6/ 2.5E-6
9 - RH #10		3158831	0	0	14	3	< 2.5E-6/ 2.5E-6	< 3.1E-6/ 3.1E-6	6.9E-3/ 2.0E-6	2.5E-3/ 1.9E-6
10 - RH #11		3158832	0	0	5	1	< 3.3E-6/ 3.3E-6	< 4.2E-6/ 4.2E-6	4.2E-2/ 2.6E-6	5.6E-5/ 2.5E-6
11 - RH #12		3158833	0	9	54	2	< 5.0E-6/ 5.0E-6	1.9E-3/ 6.2E-6	9.0E-2/ 4.0E-6	5.6E-2/ 3.7E-6
12 - RH #14		3158834	0	0	58	1	< 9.9E-6/ 9.9E-6	< 1.2E-5/ 1.2E-5	1.6E0/ 7.9E-6	8.8E-3/ 7.4E-6
13 - RH #18		3158835	0	0	120	0	< 4.8E-5/ 4.8E-5	< 6.1E-5/ 6.1E-5	2.4E1/ 3.9E-5	< 3.6E-5/ 3.6E-5
14 - RH #22		3158836	0	0	2	5	< 2.0E-6/ 2.0E-6	< 2.5E-6/ 2.5E-6	3.6E-3/ 1.6E-6	2.4E-2/ 1.5E-6
15 - RH #23		3158837	0	0	71	14	< 3.0E-5/ 3.0E-5	< 3.8E-5/ 3.8E-5	2.6E0/ 2.4E-5	3.0E-2/ 2.3E-5
16 - RH #24		3158838	0	0	0	1	< 2.5E-6/ 2.5E-6	< 3.1E-6/ 3.1E-6	< 2.0E-6/ 2.0E-6	3.8E-4/ 1.9E-6
17 - RH #25		3158839	0	0	0	0	< 2.5E-6/ 2.5E-6	< 3.1E-6/ 3.1E-6	< 2.0E-6/ 2.0E-6	< 1.9E-6/ 1.9E-6
18 - RH #26		3158840	0	0	1	10	< 9.9E-6/ 9.9E-6	< 1.2E-5/ 1.2E-5	8.3E-3/ 7.9E-6	1.6E-1/ 7.5E-6
19 - RH #27		3158841	0	0	9	1	< 3.3E-6/ 3.3E-6	< 4.2E-6/ 4.2E-6	2.6E-2/ 2.6E-6	1.8E-4/ 2.5E-6

Table 4. Summary of EPA 600/R-93/116 TEM analysis (continued).

Field Identification	Descriptor	RJLG Sample ID	Total Structures $\geq 0.5\mu\text{m}$ long, $\geq 3:1$				Weight Percent / Analytical Sensitivity			
			Chrysotile	Amphibole Asbestos	Amphibole Cleavage	Non-asbestos	Chrysotile	Amphibole Asbestos	Amphibole Cleavage	Non-asbestos
20 - RH #28		3158842	0	0	0	18	< 1.2E-6/ 1.2E-6	< 1.6E-6/ 1.6E-6	< 9.9E-7/ 9.9E-7	2.8E-2/ 9.3E-7
21 - RH #29		3158843	0	5	35	0	< 5.0E-6/ 5.0E-6	6.5E-1/ 6.2E-6	1.9E0/ 4.0E-6	< 3.7E-6/ 3.7E-6
22 - RH #30		3158844	0	0	27	0	< 5.0E-6/ 5.0E-6	< 6.2E-6/ 6.2E-6	8.3E-2/ 4.0E-6	< 3.7E-6/ 3.7E-6
23 - RH #31		3158845	0	21	67	1	< 2.0E-5/ 2.0E-5	1.1E-1/ 2.5E-5	5.2E-1/ 1.6E-5	5.2E-2/ 1.5E-5
24 - RH #32		3158846	0	0	19	0	< 1.7E-6/ 1.7E-6	< 2.1E-6/ 2.1E-6	2.9E-2/ 1.3E-6	< 1.2E-6/ 1.2E-6
25 - RH #33		3158847	0	7	57	0	< 9.9E-6/ 9.9E-6	2.3E-1/ 1.2E-5	2.3E0/ 7.9E-6	< 7.5E-6/ 7.5E-6

Table 5. Summary of ISO22262 TEM analysis.

Field Identification	Descriptor	RJLG Sample ID	Total Structures $\geq 0.5\mu\text{m}$ long, $\geq 3:1$				Weight Percent / Analytical Sensitivity			
			Chrysotile	Amphibole Asbestos	Amphibole Cleavage	Non-asbestos	Chrysotile	Amphibole Asbestos	Amphibole Cleavage	Non-asbestos
11	1B Aggregate	3158157	0	5	14	4	< 2.5E-6/ 2.5E-6	2.8E-3/ 2.0E-6	1.4E-1/ 2.0E-6	2.9E-2/ 1.9E-6
12	1B Aggregate	3158158	0	3	9	4	< 2.5E-6/ 2.5E-6	1.2E-2/ 2.0E-6	1.1E-1/ 2.0E-6	9.6E-2/ 1.9E-6
13	2A Aggregate	3158159	0	23	19	2	< 1.0E-5/ 1.0E-5	1.4E-1/ 8.0E-6	2.9E-1/ 8.0E-6	1.7E-3/ 7.5E-6
14	2A Aggregate	3158160	0	4	5	1	< 2.0E-6/ 2.0E-6	8.3E-4/ 1.6E-6	1.5E-2/ 1.6E-6	6.4E-4/ 1.5E-6
15	Screenings	3158161	0	10	16	2	< 1.7E-6/ 1.7E-6	6.6E-3/ 1.3E-6	1.4E-1/ 1.3E-6	3.5E-3/ 1.2E-6
16	Screenings	3158162	0	2	7	2	< 2.0E-6/ 2.0E-6	4.2E-4/ 1.6E-6	1.3E-1/ 1.6E-6	4.9E-2/ 1.5E-6
1	2B Aggregate	3158163	0	1	2	1	< 3.3E-6/ 3.3E-6	1.3E-3/ 2.7E-6	3.9E-2/ 2.7E-6	9.3E-4/ 2.5E-6
2	2B Aggregate	3158164	0	0	1	3	< 3.3E-6/ 3.3E-6	< 2.7E-6/ 2.7E-6	8.8E-5/ 2.7E-6	4.7E-1/ 2.5E-6

Table 5. Summary of ISO22262 TEM analysis (continued).

Field Identification	Descriptor	RJLG Sample ID	Total Structures ≥ 0.5µm long, ≥ 3:1				Weight Percent / Analytical Sensitivity			
			Chrysotile	Amphibole Asbestos	Amphibole Cleavage	Non-asbestos	Chrysotile	Amphibole Asbestos	Amphibole Cleavage	Non-asbestos
3	2B Aggregate	3158165	0	0	0	1	< 3.3E-6/ 3.3E-6	< 2.7E-6/ 2.7E-6	< 2.7E-6/ 2.7E-6	7.0E-4/ 2.5E-6
4	2B Aggregate	3158166	0	2	1	0	< 5.0E-6/ 5.0E-6	3.9E-3/ 4.0E-6	4.4E-3/ 4.0E-6	< 3.7E-6/ 3.7E-6
5	2B Aggregate	3158167	0	0	3	0	< 5.0E-6/ 5.0E-6	< 4.0E-6/ 4.0E-6	3.6E-3/ 4.0E-6	< 3.7E-6/ 3.7E-6
6	2B Aggregate	3158168	0	0	2	6	< 2.5E-6/ 2.5E-6	< 2.0E-6/ 2.0E-6	1.3E-2/ 2.0E-6	5.6E-3/ 1.9E-6
7	2B Aggregate	3158169	0	0	3	2	< 5.0E-6/ 5.0E-6	< 4.0E-6/s 4.0E-6	9.3E-2/ 4.0E-6	3.6E-3/ 3.7E-6
8	2B Aggregate	3158170	0	0	6	1	< 3.3E-6/ 3.3E-6	< 2.7E-6/ 2.E-6	1.8E-1/ 2.7E-6	1.1E-2/ 2.5E-6
9	2B Aggregate	3158171	0	4	0	1	< 3.3E-6/ 3.3E-6	1.1E-1/ 2.7E-6	< 2.7E-6/ 2.7E-6	7.4E-2/ 2.5E-6
10	2B Aggregate	3158172	0	0	0	0	< 3.3E-6/ 3.3E-6	< 2.7E-6/ 2.7E-6	< 2.7E-6/ 2.7E-6	< 2.5E-6/ 2.5E-6
#1 - DB-1		3158807	0	3	130	0	< 1.1E-5/ 1.1E-5	4.6E-3/ 8.7E-5	1.0E1/ 8.7E-6	< 8.2E-6/ 8.2E-6
#2 - DB-2		3158808	0	0	15	9	< 2.0E-6/ 2.0E-6	< 1.6E-6/ 1.6E-6	1.1E-1/ 1.6E-6	1.5E-2/ 1.5E-6
#3 - DB-3		3158809	0	0	3	1	< 3.3E-6/ 3.3E-6	< 2.6E-6/ 2.6E-6	2.3E-2/ 2.6E-6	1.9E-2/ 2.5E-6
#4 - DB-4		3158810	0	0	0	2	< 3.3E-6/ 3.3E-6	< 2.6E-6/ 2.6E-6	< 2.6E-6/ 2.6E-6	1.6E-2/ 2.5E-6
#1 - Hand Sample #1		3158811	0	0	48	0	<3.3E-6/ 3.3E-6	<2.6E-6/ 2.6E-6	4.6E-1/ 2.6E-6	<2.5E-6/ 2.5E-6
#2 - Hand Sample #2		3158812	0	18	58	0	<5.0E-6/ 5.0E-6	1.6E-2/ 4.0E-6	2.1E-1/ 4.0E-6	<3.7E-6/ 3.7E-6
#3 - Vein 7		3158813	0	69	80	0	< 2.1E-5/ 2.1E-5	8.0E0/ 1.7E-5	5.5E0/ 1.7E-5	5.5E0/ 1.7E-5
#1 - CB-1 #1		3158814	0	30	155	0	< 4.5E-5/ 4.5E-5	1.3E0/ 3.6E-5	8.1E1/ 3.6E-5	< 3.4E-5/ 3.4E-5
#2 - CB-1 #3		3158815	0	12	17	0	< 2.0E-6/ 2.0E-6	2.0E-2/ 1.6E-6	2.4E-2/ 1.6E-6	< 1.5E-6/ 1.5E-6

Table 5. Summary of ISO22262 TEM analysis (continued).

Field Identification	Descriptor	RJLG Sample ID	Total Structures $\geq 0.5\mu\text{m}$ long, $\geq 3:1$				Weight Percent / Analytical Sensitivity			
			Chrysotile	Amphibole Asbestos	Amphibole Cleavage	Non-asbestos	Chrysotile	Amphibole Asbestos	Amphibole Cleavage	Non-asbestos
#3 - CB-2 #4		3158816	0	29	48	0	< 1.0E-5/ 1.0E-5	6.0E-2/ 8.0E-6	6.2E-1/ 8.0E-6	< 7.5E-6/ 7.5E-6
#4 - CB-2 #5		3158817	0	81	24	0	< 2.0E-5/ 2.0E-5	1.5E0 1.6E-5	1.1E0/ 1.6E-5	< 1.5E-5/ 1.5E-5
#5 - CB-2 #6		3158818	0	51	25	0	< 2.6E-5/ 2.6E-5	6.4E-1/ 2.1E-5	2.0E0/ 2.1E-5	< 2.0E-5/ 2.0E-5
#6 - CB-3 #7		3158819	0	1	2	5	< 2.5E-6/ 2.5E-6	1.0E-4/ 2.0E-6	3.2E-2/ 2.0E-6	2.7E-2/ 1.9E-6
#7 - CB-3 #8		3158820	0	83	95	0	< 1.1E-5/ 1.1E-5	6.6E0/ 8.4E-6	1.9E1/ 8.4E-6	< 7.9E-6/ 7.9E-6
#8 - CB-3 #9		3158821	0	1	11	0	< 1.7E-6/ 1.7E-6	1.1E-4/ 1.3E-6	2.4E-2/ 1.3E-6	< 1.2E-6/ 1.2E-6
#9 - CB-4 #10		3158822	0	11	70	1	< 5.0E-6/ 5.0E-6	9.4E-2/ 4.0E-6	9.1E-1/ 4.0E-6	1.1E-3/ 3.7E-6
1 - RH #1		3158823	0	1	46	3	< 5.0E-5/ 5.0E-5	7.8E-4/ 4.0E-6	1.3E0/ 4.0E-6	1.0E-1/ 3.7E-6
2 - RH #2		3158824	0	2	105	0	< 5.0E-6/ 5.0E-6	4.2E-3/ 4.0E-6	1.2E0/ 4.0E-6	< 3.7E-6/ 3.7E-6
3 - RH #3		3158825	0	1	49	0	< 3.3E-6/ 3.3E-6	8.8E-4/ 2.6E-6	2.5E-1/ 2.6E-6	< 2.5E-6/ 2.5E-6
4 - RH #4		3158826	0	1	22	10	< 9.9E-6/ 9.9E-6	4.4E-3/ 7.9E-5	3.1E-1/ 7.9E-6	1.9E-3/ 7.5E-6
5 - RH #5		3158827	0	3	106	0	< 5.0E-6/ 5.0E-6	4.2E-3/ 4.0E-6	9.4E-1/ 4.0E-6	< 3.7E-6/ 3.7E-6
6 - RH #6		3158828	0	11	62	1	< 9.9E-6/ 9.9E-6	1.2E-3/ 7.9E-5	6.0E-1/ 7.9E-6	1.3E-2/ 7.5E-6
7 - RH #7		3158829	0	28	98	0	< 1.2E-5/ 1.2E-5	1.5E0/ 9.6E-6	3.4E0/ 9.6E-6	< 9.0E-6/ 9.0E-6
8 - RH #8		3158830	0	0	20	0	< 3.3E-6/ 3.3E-6	< 2.6E-6/ 2.6E-6	1.3E-1/ 2.6E-6	< 2.5E-6/ 2.5E-6
9 - RH #10		3158831	0	0	14	3	< 2.5E-6/ 2.5E-6	< 2.0E-6/ 2.0E-6	6.9E-3/ 2.0E-6	2.5E-3/ 1.9E-6
10 - RH #11		3158832	0	0	5	1	< 3.3E-6/ 3.3E-6	< 2.6E-6/ 2.6E-6	4.2E-2/ 2.6E-6	5.6E-5/ 2.5E-6

Table 5. Summary of ISO22262 TEM analysis (continued).

Field Identification	Descriptor	RJLG Sample ID	Total Structures ≥ 0.5µm long, ≥ 3:1				Weight Percent / Analytical Sensitivity			
			Chrysotile	Amphibole Asbestos	Amphibole Cleavage	Non-asbestos	Chrysotile	Amphibole Asbestos	Amphibole Cleavage	Non-asbestos
11 - RH #12		3158833	0	9	54	2	< 5.0E-6/ 5.0E-6	1.2E-3/ 4.0E-6	9.0E-2/ 4.0E-6	5.6E-2/ 3.7E-6
12 - RH #14		3158834	0	0	58	1	< 9.9E-6/ 9.9E-6	< 7.9E-6/ 7.9E-6	1.6E0/ 7.9E-6	8.8E-3/ 7.4E-6
13 - RH #18		3158835	0	0	120	0	< 4.8E-5/ 4.8E-5	< 3.9E-5/ 3.9E-5	2.4E1/ 3.9E-5	< 3.6E-5/ 3.6E-5
14 - RH #22		3158836	0	0	2	5	< 2.0E-6/ 2.0E-6	< 1.6E-6/ 1.6E-6	3.6E-3/ 1.6E-6	2.4E-2/ 1.5E-6
15 - RH #23		3158837	0	0	71	14	< 3.0E-5/ 3.0E-5	< 2.4E-5/ 2.4E-5	2.6E0/ 2.4E-5	3.0E-2/ 2.3E-5
16 - RH #24		3158838	0	0	0	1	< 2.5E-6/ 2.5E-6	< 2.0E-6/ 2.0E-6	< 2.0E-6/ 2.0E-6	3.8E-4/ 1.9E-6
17 - RH #25		3158839	0	0	0	0	< 2.5E-6/ 2.5E-6	< 2.0E-6/ 2.0E-6	< 2.0E-6/ 2.0E-6	< 1.9E-6/ 1.9E-6
18 - RH #26		3158840	0	0	1	10	< 9.9E-6/ 9.9E-6	< 7.9E-6/ 7.9E-6	8.3E-3/ 7.9E-6	1.6E-1/ 7.5E-6
19 - RH #27		3158841	0	0	9	1	< 3.3E-6/ 3.3E-6	< 2.6E-6/ 2.6E-6	2.6E-2/ 2.6E-6	1.8E-4/ 2.5E-6
20 - RH #28		3158842	0	0	0	18	< 1.2E-6/ 1.2E-6	< 9.9E-7/ 9.9E-7	< 9.9E-7/ 9.9E-7	2.8E-2/ 9.3E-7
21 - RH #29		3158843	0	5	35	0	< 5.0E-6/ 5.0E-6	4.1E-1/ 4.0E-6	1.9E0/ 4.0E-6	< 3.7E-6/ 3.7E-6
22 - RH #30		3158844	0	0	27	0	< 5.0E-6/ 5.0E-6	< 4.0E-6/ 4.0E-6	8.3E-2/ 4.0E-6	< 3.7E-6/ 3.7E-6
23 - RH #31		3158845	0	21	67	1	< 2.0E-5/ 2.0E-5	6.8E-2/ 1.6E-5	5.2E-1/ 1.6E-5	5.2E-2/ 1.5E-5
24 - RH #32		3158846	0	0	19	0	< 1.7E-6/ 1.7E-6	< 1.3E-6/ 1.3E-6	2.9E-2/ 1.3E-6	< 1.2E-6/ 1.2E-6
25 - RH #33		3158847	0	7	57	0	< 9.9E-6/ 9.9E-6	1.5E-1/ 7.9E-6	2.3E0/ 7.9E-6	< 7.5E-6/ 7.5E-6

Table 6. Summary of ISO10312 TEM analysis.

Field Identification	Descriptor	RJ Lee Group Sample Number	Number of primary asbestos structures	Number of asbestos structures counted	Number of asbestos structures >5 µm	Number of fibers and bundles > 5 µm	Number of PCM equivalent asbestos structures	Number of PCM equivalent asbestos fibers
11	1B Aggregate	3158157	19	19	8	8	4	4
12	1B Aggregate	3158158	12	12	4	4	3	2
13	2A Aggregate	3158159	42	42	21	21	9	9
14	2A Aggregate	3158160	9	9	3	2	2	1
15	Screenings	3158161	26	26	11	11	10	9
16	Screenings	3158162	9	9	4	3	4	3
1	2B Aggregate	3158163	3	3	3	3	3	3
2	2B Aggregate	3158164	1	1	1	1	1	1
3	2B Aggregate	3158165	0	0	0	0	0	0
4	2B Aggregate	3158166	3	3	1	1	0	0
5	2B Aggregate	3158167	3	3	0	0	0	0
6	2B Aggregate	3158168	1	1	0	0	0	0
7	2B Aggregate	3158169	2	2	2	2	2	2
8	2B Aggregate	3158170	6	6	3	3	3	3
9	2B Aggregate	3158171	4	4	4	4	3	2
10	2B Aggregate	3158172	0	0	0	0	0	0
#1 - DB-1		3158807	133	133	39	39	39	35
#2 - DB-2		3158808	15	15	6	3	5	3
#3 - DB-3		3158809	3	3	0	0	0	0
#4 - DB-4		3158810	0	0	0	0	0	0
#1 - Hand Sample #1		3158811	42	42	6	5	8	7
#2 - Hand Sample #2		3158812	74	76	12	11	9	8
#3 - Vein 7		3158813	148	148	58	58	35	30
#1 - CB-1 #1		3158814	177	178	93	84	80	72
#2 - CB-1 #3		3158815	29	29	15	12	8	4

Table 6. Summary of ISO10312 TEM analysis (continued).

Field Identification	Descriptor	RJ Lee Group Sample Number	Number of primary asbestos structures	Number of asbestos structures counted	Number of asbestos structures >5 µm	Number of fibers and bundles > 5 µm	Number of PCM equivalent asbestos structures	Number of PCM equivalent asbestos fibers
#3 - CB-2 #4		3158816	76	76	27	27	14	14
#4 - CB-2 #5		3158817	105	105	98	97	8	5
#5 - CB-2 #6		3158818	76	80	37	34	12	7
#6 - CB-3 #7		3158819	3	3	2	2	2	2
#7 - CB-3 #8		3158820	166	170	96	93	57	46
#8 - CB-3 #9		3158821	13	13	3	3	2	2
#9 - CB-4 #10		3158822	81	81	11	11	9	7
1 - RH #1		3158823	47	47	13	13	12	12
2 - RH #2		3158824	106	106	23	22	22	21
3 - RH #3		3158825	50	50	7	7	6	6
4 - RH #4		3158826	23	24	4	3	2	2
5 - RH #5		3158827	120	120	21	21	21	21
6 - RH #6		3158828	73	73	4	2	4	2
7 - RH #7		3158829	126	126	29	29	16	16
8 - RH #8		3158830	20	20	3	3	3	3
9 - RH #10		3158831	15	15	0	0	0	0
10 - RH #11		3158832	5	5	2	2	2	2
11 - RH #12		3158833	63	63	0	0	0	0
12 - RH #14		3158834	58	58	13	13	13	13
13 - RH #18		3158835	119	119	20	20	18	18
14 - RH #22		3158836	2	2	0	0	0	0
15 - RH #23		3158837	70	70	10	10	10	10
16 - RH #24		3158838	0	0	0	0	0	0
17 - RH #25		3158839	0	0	0	0	0	0
18 - RH #26		3158840	1	1	0	0	0	0
19 - RH #27		3158841	9	9	0	0	0	0

Table 6. Summary of ISO10312 TEM analysis (continued).

Field Identification	Descriptor	RJ Lee Group Sample Number	Number of primary asbestos structures	Number of asbestos structures counted	Number of asbestos structures >5 µm	Number of fibers and bundles > 5 µm	Number of PCM equivalent asbestos structures	Number of PCM equivalent asbestos fibers
20 - RH #28		3158842	0	0	0	0	0	0
21 - RH #29		3158843	40	40	20	19	19	18
22 - RH #30		3158844	27	27	1	1	1	1
23 - RH #31		3158845	88	88	5	5	4	3
24 - RH #32		3158846	18	18	1	1	1	1
25 - RH #33		3158847	64	64	12	12	11	11

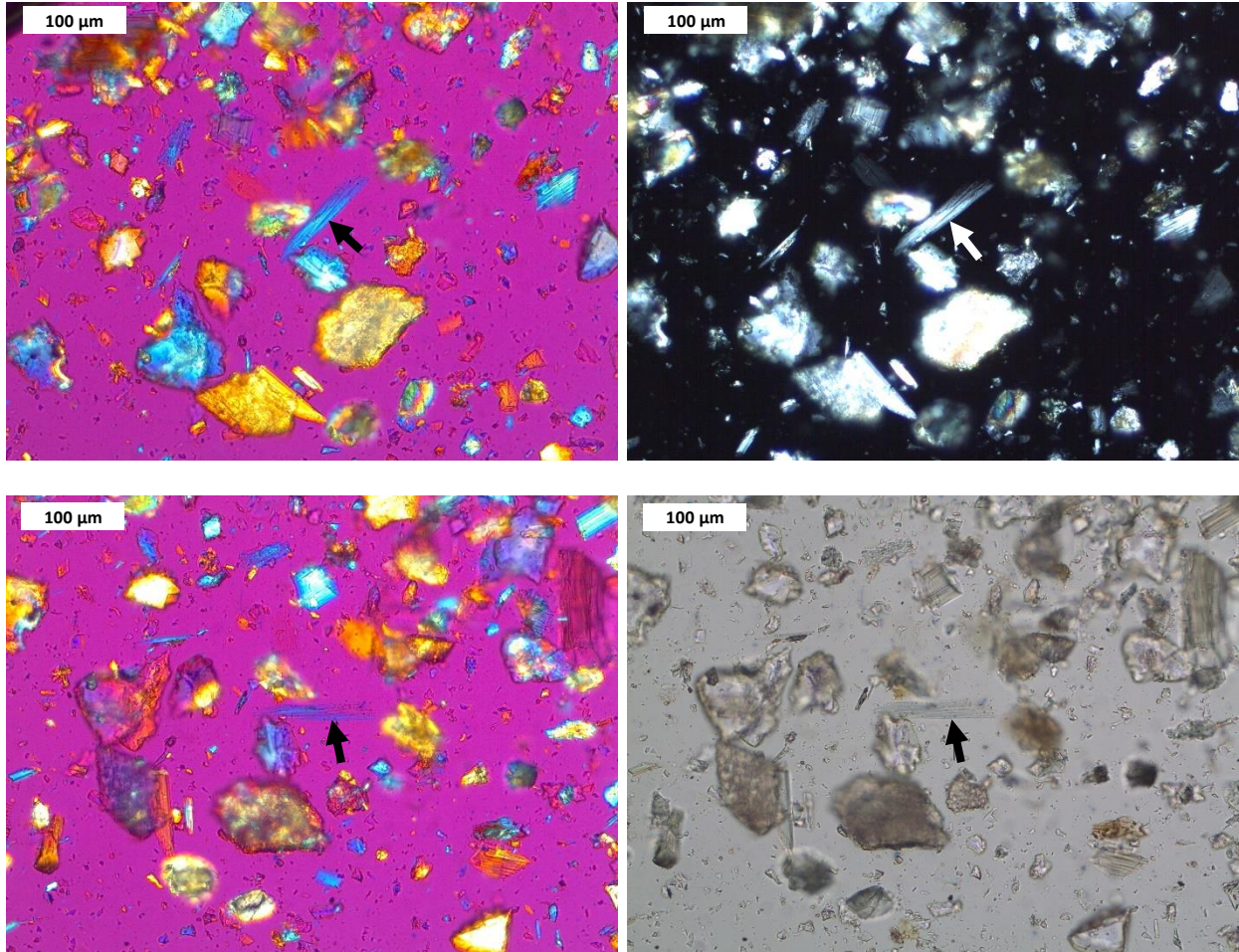


Figure 1. Photomicrographs of an actinolite asbestos bundle observed in sample 2-RH#2 (RJLG #3158824). A small arrow points to the asbestos in each image. The images were taken with cross polarized light with gypsum plate inserted (left images), in plane polarized light (bottom right), and with crossed polarizers (upper left). The particles are immersed in a 1.630 refractive index liquid. A 100 μm scale bar is shown in the upper left of each image.

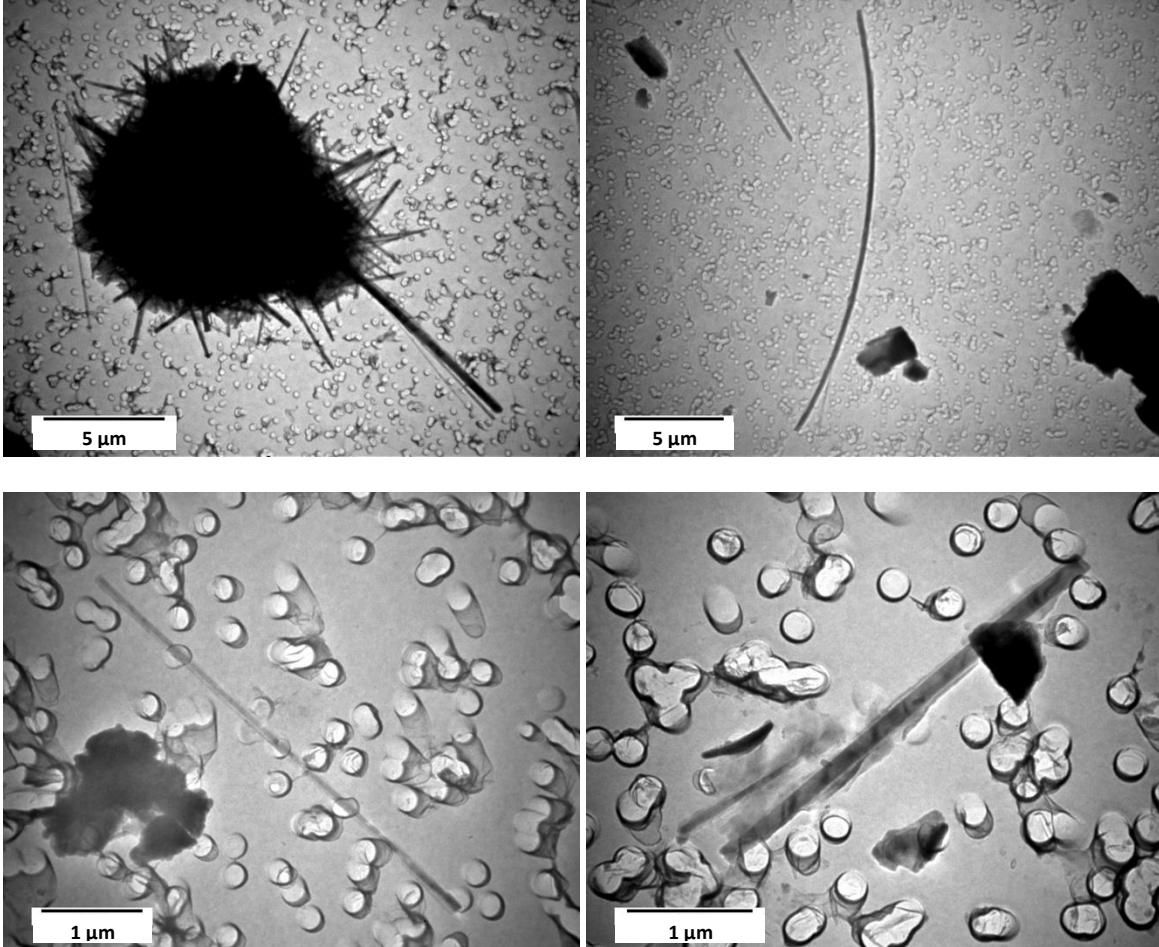


Figure 2. Electron micrographs of representative amphibole asbestos fibers.

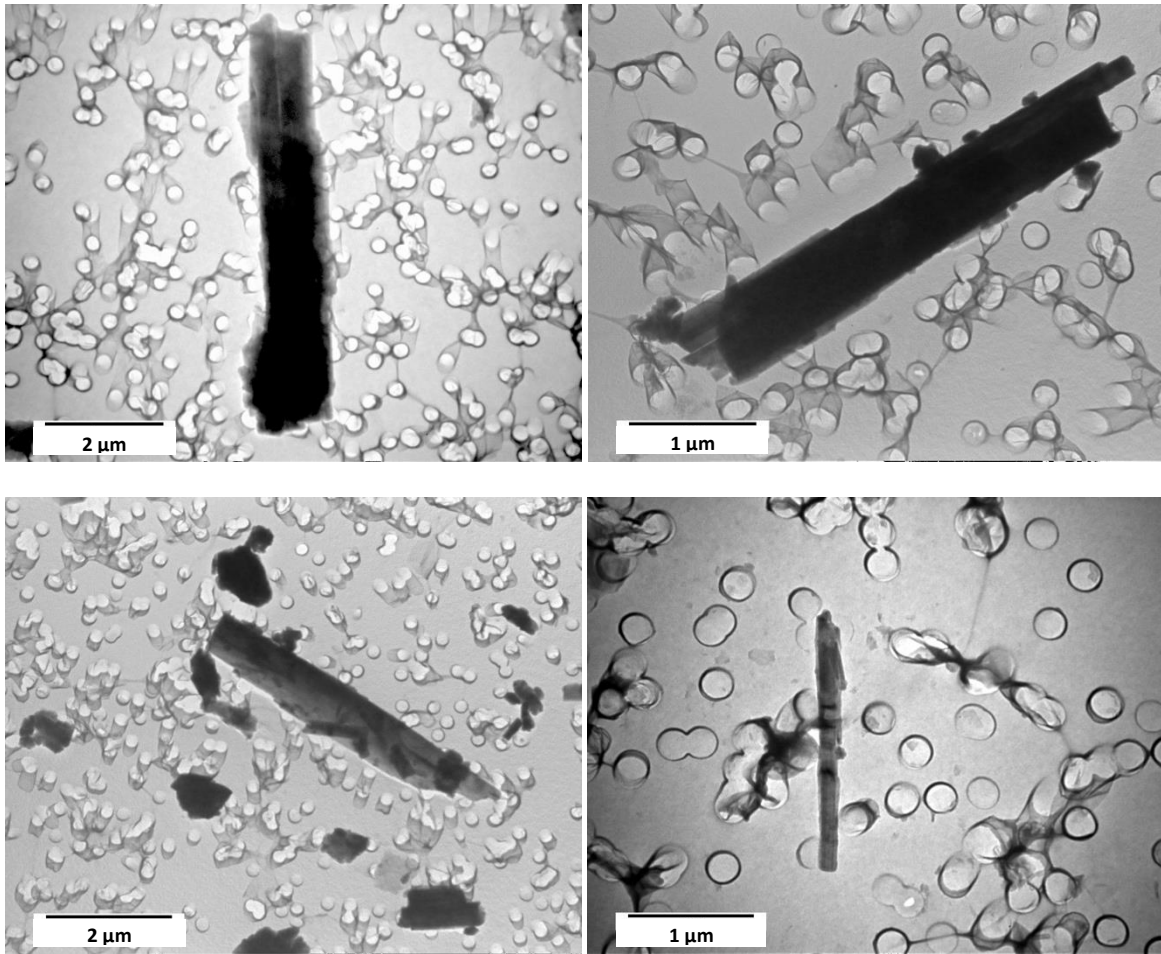


Figure 3. Electron micrographs of representative amphibole cleavage particles.

Appendix A:

Explanation of laboratory report headings

TABLE 1 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos

Client Sample Number	RJLG Sample Number	<u>Total Structures</u>				<u>Weight Percent</u> Total Structures Analytical Sensitivity			
		Chry	Amph	Cleavage	Non Asbestos	Chry	Amph ASB	Amph Cleavage Fragment	Non Asbestos

Client Sample Number = identification of sample provided by client

RJLG Sample Number = corresponding RJLG laboratory sample identification number

Total Structures

Chry = number of chrysotile asbestos structures $\geq 0.5 \mu\text{m}$, $\geq 3:1$ aspect ratio counted

Amph = number of amphibole asbestos structures $\geq 0.5 \mu\text{m}$, $\geq 3:1$ aspect ratio counted

Cleavage = number of amphibole cleavage structures $\geq 0.5 \mu\text{m}$, $\geq 3:1$ aspect ratio counted

Non Asbestos = number structures $\geq 0.5 \mu\text{m}$, $\geq 3:1$ aspect ratio counted that are a composition other than chrysotile or amphibole

Weight Percent

Values reported as measured concentration above line, analytical sensitivity below line.

Chry = weight percent chrysotile asbestos structures $\geq 0.5 \mu\text{m}$, $\geq 3:1$ aspect ratio counted

Amph = weight percent amphibole asbestos structures $\geq 0.5 \mu\text{m}$, $\geq 3:1$ aspect ratio counted

Cleavage = weight percent of amphibole cleavage structures $\geq 0.5 \mu\text{m}$, $\geq 3:1$ aspect ratio counted

Non Asbestos = weight percent of structures $\geq 0.5 \mu\text{m}$, $\geq 3:1$ aspect ratio counted that are a composition other than chrysotile or amphibole

Analytical sensitivities for Table 1 are determined based on a single fiber of the minimum fiber size of $0.5 \mu\text{m}$ and $0.05 \mu\text{m}$ wide.

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos $\geq 5 \mu\text{m}$

Client Sample Number	RJLG Sample Number	-----Structures $\geq 5 \mu\text{m}$ -----				-----Weight Percent----- Structures $\geq 5 \mu\text{m}$ Analytical Sensitivity			
		Chry	Amph	Cleavage	Non-Asbestos	Chry	ASD	Cleavage Fragment	Non-Asbestos

Client Sample Number = identification of sample provided by client

RJLG Sample Number = corresponding RJLG laboratory sample identification number

Total Structures

Chry = number of chrysotile asbestos structures $\geq 5.0 \mu\text{m}$, $\geq 3:1$ aspect ratio counted

Amph = number of amphibole asbestos structures $\geq 5.0 \mu\text{m}$, $\geq 3:1$ aspect ratio counted

Cleavage = number of amphibole cleavage structures $\geq 5.0 \mu\text{m}$, $\geq 3:1$ aspect ratio counted

Non Asbestos = number of structures $\geq 5.0 \mu\text{m}$, $\geq 3:1$ aspect ratio counted that are a composition other than chrysotile or amphibole

Weight Percent

Values reported as measured concentration above line, analytical sensitivity below line.

Chry = weight percent chrysotile asbestos structures $\geq 5.0 \mu\text{m}$, $\geq 3:1$ aspect ratio counted

Amph = weight percent amphibole asbestos structures $\geq 5.0 \mu\text{m}$, $\geq 3:1$ aspect ratio counted

Cleavage = weight percent of amphibole cleavage structures $\geq 5.0 \mu\text{m}$, $\geq 3:1$ aspect ratio counted

Non Asbestos = weight percent of structures $\geq 5.0 \mu\text{m}$, $\geq 3:1$ aspect ratio counted that are a composition other than chrysotile or amphibole

Analytical sensitivities for Table 2 are determined based on a single fiber of the minimum fiber size of $5.0 \mu\text{m}$ and $0.05 \mu\text{m}$ wide.

Asbestos mass concentration calculations

EPA 600/R-93/116:

Individual chrysotile structure mass:

$$Ms = \frac{\pi}{4} \times L \times W^2 \times \rho \times 10^{-12}$$

Ms = mass of structure (g)
L = structure length (μm)
W = width (μm)
ρ = density (2.55 g/cc)

Individual amphibole asbestos structure mass:

$$Ms = \frac{\pi}{4} \times L \times W^2 \times \rho \times 10^{-12}$$

Ms = mass of structure (g)
L = structure length (μm)
W = width (μm)
ρ = density (3.20 g/cc)

Individual amphibole cleavage structure mass:

$$Ms = L \times W \times 0.5W \times \rho \times 10^{-12}$$

Ms = mass of structure (g)
L = structure length (μm)
W = width (μm)
ρ = density (3.20 g/cc)

Individual non-asbestos structure mass:

$$Ms = L \times W \times 0.5W \times \rho \times 10^{-12}$$

Ms = mass of structure (g)
L = structure length (μm)
W = width (μm)
ρ = density (3.00 g/cc)

Concentration:

$$\text{Concentration (\%)} = \frac{A_f \times \sum Ms \times 100}{GO \times GOA \times M_i \times DF}$$

A_f = Area of filter (mm²)

$\sum Ms$ = Sum of individual structure masses (g)

GO = grid openings analyzed
GOA = area of grid opening (mm²)
 M_i = initial sample mass (g)
DF = dilution factor

ISO 22262:

Individual chrysotile structure mass:

$$M_s = \frac{\pi}{4} \times L \times W^2 \times \rho \times 10^{-12}$$

Ms = mass of structure (g)
L = structure length (μm)
W = width (μm)
ρ = density (2.55 g/cc)

Individual amphibole asbestos structure mass:

$$M_s = L \times W \times 0.5W \times \rho \times 10^{-12}$$

Ms = mass of structure (g)
L = structure length (μm)
W = width (μm)
ρ = density (3.20 g/cc)

Individual amphibole cleavage structure mass:

$$M_s = L \times W \times 0.5W \times \rho \times 10^{-12}$$

Ms = mass of structure (g)
L = structure length (μm)
W = width (μm)
ρ = density (3.20 g/cc)

Individual non-asbestos structure mass:

$$M_s = L \times W \times 0.5W \times \rho \times 10^{-12}$$

Ms = mass of structure (g)
L = structure length (μm)
W = width (μm)
ρ = density (3.00 g/cc)

Concentration:

$$\text{Concentration (\%)} = \frac{A_f \times \sum Ms \times 100}{GO \times GOA \times M_i \times DF}$$

A_f = Area of filter (mm²)

$\sum Ms$ = Sum of individual structure masses (g)

GO = grid openings analyzed

GOA = area of grid opening (mm²)

M_i = initial sample mass (g)

DF = dilution factor

Appendix B
TEM Laboratory Reports & Analytical Benchsheets: Water Samples

Final Laboratory Report

TEM Non Potable Water Analysis

Attention: David Raphael
 K & L Gates
 17 North Second Street
 Harrisburg, PA 17101
 US

Report Date: 07/28/2020
 Sample Receipt Date: 04/23/2019
 RJ Lee Group Job No.: LLH901997-27
 Authorization/P.O. No.:
 Samples Received: 7
 Client Job No.:

Method: EPA 100.1 600/4-03-043

Client Sample Number	RJLG Sample Number	Date Prepped	Date Analyzed	Filter Area (mm ²)	Volume (ml)	Area Analyzed (mm ²)	Confidence Interval >0.50 μ m	Asbestos Structures >0.50 μ m		Analytical Sensitivity (MFL) >0.50 μ m	Concentration (MFL) >0.50 μ m
								Chry	Amph		
#1 NPDES Outfall	3158173.HTW1	06/03/2020	06/05/2020	1220	20.0	0.31072	0-4	0	0	0.2	< 0.2
#2 Sed. Trap 2	3158174.HTW1	06/03/2020	06/10/2020	1220	2.0	0.61203	0-4	0	0	1.0	< 1.0
#3 Sed. Basin 2	3158175.HTW1	06/03/2020	06/10/2020	1220	10.0	0.18832	0-4	0	0	0.6	< 0.6
#4 Sed. Basin 1	3158176.HTW1	06/03/2020	06/10/2020	1220	20.0	0.18832	0-4	0	0	0.3	< 0.3
#5 Quarry Pit	3158177.HTW1	06/03/2020	06/10/2020	1220	20.0	0.18832	0-4	0	0	0.3	< 0.3
#6 Sed. Trap 1	3158178.HTW3	06/03/2020	06/10/2020	1220	.5	2.4481	0-6	0	1	1.0	1.0
#7 Sed. Trap 3	3158179.HTW1	06/03/2020	06/10/2020	1220	5.0	0.24481	0-6	1	0	1.0	1.0

NOTES

- Water samples collected more than 24 hours before receipt may be out of compliance. Drinking water samples are filtered within 24 hours of receipt.
- "<" indicates results less than analytical sensitivity. "----" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, MFL-million fibers per liter.
- Samples will be held for 30 days and then disposed of per Federal regulations.
- These results are submitted pursuant to RJ Lee Group'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 these results are used or interpreted.

DISCLAIMER

RJ Lee Group, Inc. is accredited by the New York Department of Health Environmental Laboratory Program (NY ELAP) and the Pennsylvania Department of Environmental Protection (PA DEP) for asbestos in water analysis by TEM. This report may not be used to claim product endorsement by NY ELAP, PA DEP or any other regulatory or laboratory accrediting agency. Any reproduction of this document must be in full in order for the report to be valid. This report is not valid unless it bears the name of a NY ELAP and PA-DEP approved signatory.

These results are submitted pursuant to RJ Lee Group's current terms and conditions of sale, including the company's standard warranty and limiting provisions and 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, RJ Lee Group will store the samples for a period of thirty (30) days before discarding. A shipping and handling fee will be assessed for the return of any sample.

RJ Lee Group, Inc.**Final Laboratory Report (cont'd)**

RJ Lee Group Job No: LLH901997-27

Client:

K & L Gates

Client Job No/Name:

Report Date:

07/28/2020

Authorized Signature: _____



Ashleigh Sload, Scientist

NOTES

1. Water samples collected more than 24 hours before receipt may be out of compliance. Drinking water samples are filtered within 24 hours of receipt.
2. "<" indicates results less than analytical sensitivity. "----" indicates that sample was not analyzed.
3. Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
4. If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
5. Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, MFL-million fibers per liter.
6. Samples will be held for 30 days and then disposed of per Federal regulations.
7. These results are submitted pursuant to RJ Lee Group'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 these results are used or interpreted.

DISCLAIMER

RJ Lee Group, Inc. is accredited by the New York Department of Health Environmental Laboratory Program (NY ELAP) and the Pennsylvania Department of Environmental Protection (PA DEP) for asbestos in water analysis by TEM. This report may not be used to claim product endorsement by NY ELAP, PA DEP or any other regulatory or laboratory accrediting agency. Any reproduction of this document must be in full in order for the report to be valid. This report is not valid unless it bears the name of a NY ELAP and PA-DEP approved signatory.

These results are submitted pursuant to RJ Lee Group's current terms and conditions of sale, including the company's standard warranty and limiting provisions and 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, RJ Lee Group will store the samples for a period of thirty (30) days before discarding. A shipping and handling fee will be assessed for the return of any sample.

RJL: LLH901997-4	3158173.HTW1	Microscope tem2000fx1	Grid Openings	33
#1 NPDES Outfall	K & L Gates	Magnification 21 KX	Asbestos	0.0
Vol: 20.0 mL	Grid: 0.0094 mm ²	Acc. Voltage 120 KV		
Filter Size: 47 mm	HQ44199	Operator: Ashleigh Sload		
		Cv = 0		

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1				NSD							
2				NSD							
3				NSD							
4				NSD							
5				NSD							
6				NSD							
7				NSD							
8				NSD							
9				NSD							
10				NSD							
11				NSD							
12				NSD							
13				NSD							
14				NSD							
15				NSD							
16				NSD							
17				NSD							
18				NSD							
19				NSD							
20				NSD							
21				NSD							
22				NSD							
23				NSD							
24				NSD							
25				NSD							
26				NSD							
27				NSD							
28				NSD							
29				NSD							
30				NSD							
31				NSD							
32				NSD							
33				NSD							

10% Particulate

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 4/29/2019 3:29:16 PM approve by Ashleigh Sload

Final Review: 5/1/19 12:57 PM approve by Monica Mcgrath

RJL: LLH901997-4	3158174.HTW1	Microscope tem2000fx2	Grid Openings	65
#2 Sed. Trap 2	K & L Gates	Magnification 21 KX	Asbestos	0.0
Vol: 2.0 mL	Grid: 0.0094 mm ²	Acc. Voltage 120 KV		
Filter Size: 47 mm	HQ44199	Operator: Jon Swope		
		Cv = 0		

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1				NSD							
2				NSD							
3				NSD							
4				NSD							
5				NSD							
6				NSD							
7				NSD							
8				NSD							
9				NSD							
10				NSD							
11				NSD							
12				NSD							
13				NSD							
14				NSD							
15				NSD							
16				NSD							
17				NSD							
18				NSD							
19				NSD							
20				NSD							
21				NSD							
22				NSD							
23				NSD							
24				NSD							
25				NSD							
26				NSD							
27				NSD							
28				NSD							
29				NSD							
30				NSD							
31				NSD							
32				NSD							
33				NSD							
34				NSD							
35				NSD							
36				NSD							
37				NSD							
38				NSD							
39				NSD							
40				NSD							
41				NSD							
42				NSD							
43				NSD							
44				NSD							

RJL: LLH901997-4	3158174.HTW1	Microscope tem2000fx2	Grid Openings	65
#2 Sed. Trap 2	K & L Gates	Magnification 21 KX	Asbestos	0.0
Vol: 2.0 mL	Grid: 0.0094 mm ²	Acc. Voltage 120 KV		
Filter Size: 47 mm	HQ44199	Operator: Jon Swope		
		Cv = 0		

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
45				NSD							
46				NSD							
47				NSD							
48				NSD							
49				NSD							
50				NSD							
51				NSD							
52				NSD							
53				NSD							
54				NSD							
55				NSD							
56				NSD							
57				NSD							
58				NSD							
59				NSD							
60				NSD							
61				NSD							
62				NSD							
63				NSD							
64				NSD							
65				NSD							

12% Particulate

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 4/29/2019 3:10:21 PM approve by Jon Swope

Final Review: 4/30/19 3:49 PM approve by Monica Mcgrath

RJL: LLH901997-4	3158175.HTW1	Microscope tem2000fx1	Grid Openings	13
#3 Sed. Basin 2	K & L Gates	Magnification 21 KX	Asbestos	0.0
Vol: 10.0 mL	Grid: 0.0094 mm ²	Acc. Voltage 120 KV		
Filter Size: 47 mm	HQ44199	Operator: Ashleigh Sload		
		Cv = 0		

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1				NSD							
2				NSD							
3				NSD							
4				NSD							
5				NSD							
6				NSD							
7				NSD							
8				NSD							
9				NSD							
10				NSD							
11				NSD							
12				NSD							
13				NSD							

20% Particulate

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 4/29/2019 4:04:12 PM approve by Ashleigh Sload

Final Review: 4/30/19 3:50 PM approve by Monica Mcgrath

RJL: LLH901997-4	3158176.HTW2	Microscope tem2000fx1	Grid Openings	13
#4 Sed. Basin 1	K & L Gates	Magnification 21 KX	Asbestos	0.0
Vol: 10. mL	Grid: 0.0094 mm ²	Acc. Voltage 120 KV		
Filter Size: 47 mm	HQ44200	Operator: Ashleigh Sload		
		Cv = 0		

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1				NSD							
2				NSD							
3				NSD							
4				NSD							
5				NSD							
6				NSD							
7				NSD							
8				NSD							
9				NSD							
10				NSD							
11				NSD							
12				NSD							
13				NSD							

10% Particulate

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 4/30/2019 7:29:05 AM approve by Ashleigh Sload

Final Review: 4/30/19 3:50 PM approve by Monica Mcgrath

RJL: LLH901997-4	3158177.HTW1	Microscope tem2000fx1	Grid Openings	33
#5 Quarry Pit	K & L Gates	Magnification 21 KX	Asbestos	0.0
Vol: 20.0 mL	Grid: 0.0094 mm ²	Acc. Voltage 120 KV		
Filter Size: 47 mm	HQ44200	Operator: Ashleigh Sload		
		Cv = 0		

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1				NSD							
2				NSD							
3				NSD							
4				NSD							
5				NSD							
6				NSD							
7				NSD							
8				NSD							
9				NSD							
10				NSD							
11				NSD							
12				NSD							
13				NSD							
14				NSD							
15				NSD							
16				NSD							
17				NSD							
18				NSD							
19				NSD							
20				NSD							
21				NSD							
22				NSD							
23				NSD							
24				NSD							
25				NSD							
26				NSD							
27				NSD							
28				NSD							
29				NSD							
30				NSD							
31				NSD							
32				NSD							
33				NSD							

8% Particulate

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 4/30/2019 8:15:53 AM approve by Ashleigh Sload

Final Review: 5/1/19 12:57 PM approve by Monica Mcgrath

RJL: LLH901997-4	3158178.HTW3	Microscope tem2000fx2	Grid Openings	260
#6 Sed. Trap 1	K & L Gates	Magnification 21 KX	Asbestos	0.0
Vol: .5 mL	Grid: 0.0094 mm ²	Acc. Voltage 120 KV		
Filter Size: 47 mm	HQ44200	Operator: Jon Swope		
		Cv = 0		

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1				NSD							
2				NSD							
3				NSD							
4				NSD							
5				NSD							
6				NSD							
7				NSD							
8				NSD							
9				NSD							
10				NSD							
11				NSD							
12				NSD							
13				NSD							
14				NSD							
15				NSD							
16				NSD							
17				NSD							
18				NSD							
19				NSD							
20				NSD							
21				NSD							
22				NSD							
23				NSD							
24				NSD							
25				NSD							
26				NSD							
27				NSD							
28				NSD							
29				NSD							
30				NSD							
31				NSD							
32				NSD							
33				NSD							
34				NSD							
35				NSD							
36				NSD							
37				NSD							
38				NSD							
39				NSD							
40				NSD							
41				NSD							
42				NSD							
43				NSD							
44				NSD							

RJL: LLH901997-4	3158178.HTW3	Microscope tem2000fx2	Grid Openings	260
#6 Sed. Trap 1	K & L Gates	Magnification 21 KX	Asbestos	0.0
Vol: .5 mL	Grid: 0.0094 mm ²	Acc. Voltage 120 KV		
Filter Size: 47 mm	HQ44200	Operator: Jon Swope		
		Cv = 0		

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
45				NSD							
46				NSD							
47				NSD							
48				NSD							
49				NSD							
50				NSD							
51				NSD							
52				NSD							
53				NSD							
54				NSD							
55				NSD							
56				NSD							
57				NSD							
58				NSD							
59				NSD							
60				NSD							
61				NSD							
62				NSD							
63				NSD							
64				NSD							
65				NSD							
66				NSD							
67				NSD							
68				NSD							
69				NSD							
70				NSD							
71				NSD							
72				NSD							
73				NSD							
74				NSD							
75				NSD							
76				NSD							
77				NSD							
78				NSD							
79				NSD							
80				NSD							
81				NSD							
82				NSD							
83				NSD							
84				NSD							
85				NSD							
86				NSD							
87				NSD							
88				NSD							

RJL: LLH901997-4	3158178.HTW3	Microscope tem2000fx2	Grid Openings	260
#6 Sed. Trap 1	K & L Gates	Magnification 21 KX	Asbestos	0.0
Vol: .5 mL	Grid: 0.0094 mm ²	Acc. Voltage 120 KV		
Filter Size: 47 mm	HQ44200	Operator: Jon Swope		
		Cv = 0		

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
89				NSD							
90				NSD							
91				NSD							
92				NSD							
93				NSD							
94				NSD							
95				NSD							
96				NSD							
97				NSD							
98				NSD							
99				NSD							
100				NSD							
101				NSD							
102				NSD							
103				NSD							
104				NSD							
105				NSD							
106				NSD							
107				NSD							
108				NSD							
109				NSD							
110				NSD							
111				NSD							
112				NSD							
113				NSD							
114				NSD							
115				NSD							
116				NSD							
117				NSD							
118				NSD							
119				NSD							
120				NSD							
121				NSD							
122				NSD							
123				NSD							
124				NSD							
125				NSD							
126				NSD							
127				NSD							
128				NSD							
129				NSD							
130				NSD							
131				NSD							
132				NSD							

RJL: LLH901997-4	3158178.HTW3	Microscope tem2000fx2	Grid Openings	260
#6 Sed. Trap 1	K & L Gates	Magnification 21 KX	Asbestos	0.0
Vol: .5 mL	Grid: 0.0094 mm ²	Acc. Voltage 120 KV		
Filter Size: 47 mm	HQ44200	Operator: Jon Swope		
		Cv = 0		

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
133				NSD							
134				NSD							
135				NSD							
136				NSD							
137				NSD							
138				NSD							
139				NSD							
140				NSD							
141				NSD							
142				NSD							
143				NSD							
144				NSD							
145				NSD							
146				NSD							
147				NSD							
148				NSD							
149				NSD							
150				NSD							
151				NSD							
152				NSD							
153				NSD							
154				NSD							
155				NSD							
156				NSD							
157				NSD							
158				NSD							
159				NSD							
160				NSD							
161				NSD							
162				NSD							
163				NSD							
164				NSD							
165				NSD							
166				NSD							
167				NSD							
168				NSD							
169				NSD							
170				NSD							
171				NSD							
172				NSD							
173				NSD							
174				NSD							
175				NSD							
176				NSD							

RJL: LLH901997-4	3158178.HTW3	Microscope tem2000fx2	Grid Openings	260
#6 Sed. Trap 1	K & L Gates	Magnification 21 KX	Asbestos	0.0
Vol: .5 mL	Grid: 0.0094 mm ²	Acc. Voltage 120 KV		
Filter Size: 47 mm	HQ44200	Operator: Jon Swope		
		Cv = 0		

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
177				NSD							
178				NSD							
179				NSD							
180				NSD							
181				NSD							
182				NSD							
183				NSD							
184				NSD							
185				NSD							
186				NSD							
187				NSD							
188				NSD							
189				NSD							
190				NSD							
191				NSD							
192				NSD							
193				NSD							
194				NSD							
195				NSD							
196				NSD							
197				NSD							
198				NSD							
199				NSD							
200				NSD							
201				NSD							
202				NSD							
203				NSD							
204				NSD							
205				NSD							
206				NSD							
207				NSD							
208				NSD							
209				NSD							
210				NSD							
211				NSD							
212				NSD							
213				NSD							
214				NSD							
215				NSD							
216				NSD							
217				NSD							
218				NSD							
219				NSD							
220				NSD							

RJL: LLH901997-4	3158178.HTW3	Microscope tem2000fx2	Grid Openings	260
#6 Sed. Trap 1	K & L Gates	Magnification 21 KX	Asbestos	0.0
Vol: .5 mL	Grid: 0.0094 mm ²	Acc. Voltage 120 KV		
Filter Size: 47 mm	HQ44200	Operator: Jon Swope		
		Cv = 0		

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
221				NSD							
222				NSD							
223				NSD							
224				NSD							
225				NSD							
226				NSD							
227				NSD							
228				NSD							
229				NSD							
230				NSD							
231				NSD							
232				NSD							
233				NSD							
234				NSD							
235				NSD							
236				NSD							
237				NSD							
238				NSD							
239				NSD							
240				NSD							
241				NSD							
242				NSD							
243				NSD							
244				NSD							
245				NSD							
246				NSD							
247				NSD							
248				NSD							
249				NSD							
250				NSD							
251				NSD							
252				NSD							
253				NSD							
254				NSD							
255				NSD							
256				NSD							
257				NSD							
258				NSD							
259				NSD							
260				NSD							

12% Particulate

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 4/30/2019 1:28:01 PM approve by Jon Swope

Final Review: 4/30/19 3:50 PM approve by Monica Mcgrath

RJL: LLH901997-4	3158179.HTW1	Microscope tem2000fx2	Grid Openings	26
#7 Sed. Trap 3	K & L Gates	Magnification 21 KX	Asbestos	0.0
Vol: 5.0 mL	Grid: 0.0094 mm ²	Acc. Voltage 120 KV		
Filter Size: 47 mm	HQ44200	Operator: Jon Swope		
		Cv = 0		

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1				NSD							
2				NSD							
3				NSD							
4				NSD							
5				NSD							
6				NSD							
7				NSD							
8				NSD							
9				NSD							
10				NSD							
11				NSD							
12				NSD							
13				NSD							
14				NSD							
15				NSD							
16				NSD							
17				NSD							
18				NSD							
19				NSD							
20				NSD							
21				NSD							
22				NSD							
23				NSD							
24				NSD							
25				NSD							
26				NSD							

10% Particulate

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 4/29/2019 2:17:20 PM approve by Jon Swope

Final Review: 4/30/19 3:50 PM approve by Monica Mcgrath

Appendix C
TEM Laboratory Reports & Analytical Benchsheets: Bulk Samples

Final Laboratory Report

TEM Bulk Protocol

Attention: David Raphael
K & L Gates
17 North Second Street
Harrisburg, PA 17101
US

Report Date: 08/12/2020
Sample Receipt Date: 09/03/2019
RJ Lee Group Job No.: LLH901997-25
Authorization/P.O. No.:
Samples Received: 1
Client Job No.:

Method: EPA/R-93/600/116

TABLE 1 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos

Client Sample Number	RJLG Sample Number	<u>Total Structures</u>				-----Weight Percent----- <u>Total Structures</u> Analytical Sensitivity			
		Chry	Amph	Cleavage	Non Asbestos	Chry	Amph Asb	Amph Cleavage Fragment	Non Asbestos
11	3158157	0	5	14	4	<u>< 2.5E-6</u> 2.5E-6	<u>4.5E-3</u> 3.1E-6	<u>1.4E-1</u> 2.0E-6	<u>2.9E-2</u> 1.9E-6

NOTES

1. "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
2. Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
3. If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
4. Density of amphibole: 3.2×10^{-3} ng/ μ m³, density of chrysotile: 2.55×10^{-3} ng/ μ m³, density of non-asbestos: 3.00×10^{-3} ng/ μ m³.
5. Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
6. Samples will be held for 90 days and then disposed of per Federal regulations.
7. These results are submitted pursuant to RJ Lee Group'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 these results are used or interpreted.

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These results are submitted pursuant to RJ Lee Group's current terms and conditions of sale, including the company's standard warranty and limiting provisions and 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, RJ Lee Group will store the samples for a period of ninety (90) days before discarding. A shipping and handling fee will be assessed for the return of any sample.

RJ Lee Group Job No: LLH901997-25
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/12/2020

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos 5 μm

Client Sample Number	RJLG Sample Number	-----Structures 5 μm-----				-----Weight Percent----- Structures 5 μm Analytical Sensitivity			
		Chry	Amph	Cleavage	Non-Asbestos	Amphibole			
						Chry	Asb	Cleavage Fragment	Non-Asbestos
11	3158157	0	5	3	1	<u>< 2.5E-5</u> 2.5E-5	<u>4.5E-3</u> 3.1E-5	<u>1.2E-1</u> 2.0E-5	<u>1.5E-2</u> 1.9E-5

NOTES

- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2×10^{-3} ng/μm³, density of chrysotile: 2.55×10^{-3} ng/μm³, density of non-asbestos: 3.00×10^{-3} ng/μm³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
- These results are submitted pursuant to RJ Lee Group'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 these results are used or interpreted.

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RJ Lee Group Job No: LLH901997-25
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/12/2020

Client Sample Number	RJLG Sample Number	Material Used (gm)	Area Analyzed Total (mm ²)	Area Analyzed 5 μm (mm ²)	Effective Filter Area (mm ²)	Dilution Factor
11	3158157	0.0004	0.30603	0.30603	1220	1.0

Authorized Signature: 
 Ashleigh Sload, Scientist

NOTES

- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2 * 10⁻³ ng/ μ m³, density of chrysotile: 2.55 * 10⁻³ ng/ μ m³, density of non-asbestos: 3.00 * 10⁻³ ng/ μ m³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
- These results are submitted pursuant to RJ Lee Group'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 these results are used or interpreted.

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RJL: LLH901997-25	3158157.HTA1	Microscope tem2000fx1	Grid Openings	10
11	K & L Gates	Magnification 21 KX	Asbestos	1.0
Wt: 0.0004 gm	Grid: 0.0087 mm ²	Acc. Voltage 120 KV	Asbestos >= 5µm	1.0
Dil: 1.0	Filter Size: 47 mm	Operator: Jacquelyn Mershon	Nonasbestos	15.0
HQ45493		Cv = 0.09	Nonasbestos >= 5µm	1.0
			% Wt of largest asbestos structure	%

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1	1	2.29	0.45	Amphibole		MgSiCaFeAl	16609C	Image1	Diff1	Acti	Cle
2				NSD							
3	1	1.43	0.23	Amphibole		MgSiCaFe			X	Acti	Cle
3	2	1.89	0.15	Amphibole		MgSiCaFe			X	Acti	Cle
3	3	6.21	1.02	Amphibole		MgSiCaFe			X	Acti	Cle
4	1	1.84	0.28	Non-Asbestos		NaAlSiCa	16610C	Image2	X		
4	2	1.84	0.28	Amphibole		MgAlSiCaFe	16611C	Image3	Diff2	Acti	Cle
4	3	1.58	0.4	Non-Asbestos		MgAlSiCaFe	16750C	Image5	Diff3	CPX	
5	1	3.15	0.85	Non-Asbestos		MgAlSiCaFe			X	CPX	
6	1	1.43	0.15	Amphibole		MgSiCaFe			X	Acti	Cle
7	1	3.68	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
7	2	1.3	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
7	3	2.37	0.68	Amphibole		MgSiCaFe			X	Acti	Cle
8	1	3.1	0.56	Amphibole		MgSiCaFe			X	Acti	Cle
9	1	2.76	0.18	Amphibole		MgSiCaFe		Image4	X	Acti	Cle
10	1	1.53	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
10	2	11.04	0.14	Amphibole	F	MgSiCaFe			X	Acti	Asb

12% Particulate

Analyst's Comments: N/A

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 7/31/2020 9:12:06 AM approve by Jacquelyn Mershon

Final Review: 8/12/20 2:05 PM approve by Ashleigh Sload

RJL: LLH901997-25	3158157.HTA1	Microscope tem2000fx1	Grid Openings	25
11	K & L Gates	Magnification 10 KX	Asbestos	4.0
Wt: 0.0004 gm	Grid: 0.0087 mm ²	Acc. Voltage 120 KV	Nonasbestos	3.0
Dil: 1.0	Filter Size: 47 mm	Operator: Jacquelyn Mershon	% Wt of largest asbestos	%
HQ45493		Cv = 0.214	structure	

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1	1	5.03	0.45	Amphibole		MgSiCaFe	16612C	Image1	Diff1	Acti	Cle
2				NSD							
3				NSD							
4				NSD							
5				NSD							
6				NSD							
7				NSD							
8	1	5.4	1.17	Non-Asbestos		NaAlSiCa	16751C	Image2	X		
9				NSD							
10				NSD							
11				NSD							
12				NSD							
13				NSD							
14	1	6.74	0.14	Amphibole	F	MgSiCaFe			X	Acti	Asb
15				NSD							
16				NSD							
17				NSD							
18				NSD							
19	1	10.31	0.05	Amphibole	F	MgSiCaFe			X	Acti	Asb
19	2	5.53	0.27	Amphibole	F	MgSiCaFe			X	Acti	Asb
20				NSD							
21				NSD							
22				NSD							
23				NSD							
24	1	20.7	1.35	Amphibole		MgSiCaFe			X	Acti	Cle
25	1	10.8	0.14	Amphibole	B	MgSiCaFe			X	Acti	Asb

12% Particulate

Analyst's Comments: N/A

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 7/31/2020 8:54:20 AM approve by Jacquelyn Mershon

Final Review: 8/12/20 2:05 PM approve by Ashleigh Sload

Final Laboratory Report

TEM Bulk Protocol

Attention: David Raphael
K & L Gates
17 North Second Street
Harrisburg, PA 17101
US

Report Date: 08/12/2020
Sample Receipt Date: 09/03/2019
RJ Lee Group Job No.: LLH901997-25
Authorization/P.O. No.:
Samples Received: 1
Client Job No.:

Method: ISO 22262-2

TABLE 1 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos

Client Sample Number	RJLG Sample Number	<u>Total Structures</u>				-----Weight Percent----- <u>Total Structures</u> Analytical Sensitivity			
		Chry	Amph	Cleavage	Non Asbestos	Chry	Amph Asb	Amph Cleavage Fragment	Non Asbestos
11	3158157	0	5	14	4	<u>< 2.5E-6</u> 2.5E-6	<u>2.8E-3</u> 2.0E-6	<u>1.4E-1</u> 2.0E-6	<u>2.9E-2</u> 1.9E-6

NOTES

1. "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
2. Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
3. If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
4. Density of amphibole: 3.2×10^{-3} ng/ μ m³, density of chrysotile: 2.55×10^{-3} ng/ μ m³, density of non-asbestos: 3.00×10^{-3} ng/ μ m³.
5. Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
6. Samples will be held for 90 days and then disposed of per Federal regulations.
7. These results are submitted pursuant to RJ Lee Group'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 these results are used or interpreted.

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RJ Lee Group Job No: LLH901997-25
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/12/2020

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos 5 μm

Client Sample Number	RJLG Sample Number	-----Structures 5 μm-----				-----Weight Percent----- Structures 5 μm Analytical Sensitivity			
		Chry	Amph	Cleavage	Non-Asbestos	Amphibole			
						Chry	Asb	Cleavage Fragment	Non-Asbestos
11	3158157	0	5	3	1	<u>< 2.5E-5</u> 2.5E-5	<u>2.8E-3</u> 2.0E-5	<u>1.2E-1</u> 2.0E-5	<u>1.5E-2</u> 1.9E-5

NOTES

- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2 * 10⁻³ ng/ μ m³, density of chrysotile: 2.55 * 10⁻³ ng/ μ m³, density of non-asbestos: 3.00 * 10⁻³ ng/ μ m³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
- These results are submitted pursuant to RJ Lee Group'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 these results are used or interpreted.

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RJ Lee Group, Inc.

Final Laboratory Report (cont'd)

RJ Lee Group Job No: LLH901997-25
Client Job No/Name:

Client: K & L Gates
Report Date: 08/12/2020

Client Sample Number	RJLG Sample Number	Material Used (gm)	Area Analyzed Total (mm ²)	Area Analyzed 5 μm (mm ²)	Effective Filter Area (mm ²)	Dilution Factor
11	3158157	0.0004	0.30603	0.30603	1220	1.0

Authorized Signature: 
Ashleigh Sload, Scientist

NOTES

- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2×10^{-3} ng/μm³, density of chrysotile: 2.55×10^{-3} ng/μm³, density of non-asbestos: 3.00×10^{-3} ng/μm³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
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RJ Lee Group, Inc
LLH901997-25
3158157.HTA1

K & L Gates
11

31-Jul-20

Air volume:

Area of collection filter:

Volume flowrate:

Level of analysis (chrysotile):

NA

Level of analysis (amphibole):

AZQ

0

Magnification used for structure counting:

Aspect ratio for fibre definition:

3:1

Mean dimension of grid openings:

0.0087436

Initials of analyst:

JM

Number of grid openings examined:

35

Analytical sensitivity:

Number of primary asbestos structures:

19

Number of asbestos structures counted:

19

Number of asbestos structures >5 µm:

8

Number of fibres and bundles > 5 µm:

8

Number of PCM equivalent asbestos structures:

4

Number of PCM equivalent asbestos fibres:

4

TEM asbestos structure count					
Report Number:	LLH901997-25			Sample Weight:	0.0004
Sample Number:	3158157.HTA1			Filter area (mm2):	1220
Sample Description:	11			Magnification:	10/20 KX
				Grid opening dimension (mm2)	0.0087436
Preparation date:	06/25/20	By:	MK		
Analysis date:	07/31/20	By:	JM	Level of analysis (chrysotile)	NA
Computer entry date:	08/9/20	By:	MMK	Level of analysis (amphibole)	AZQ

Grid	Grid Opening	Structues		Identification	Structure type	Length (µm)	Width (µm)	Fibre Type	Comments
		primary	total						
1	I1	1	1	AZQ	F	2.29	0.45	Actinolite	
	I5			No Fibres					
	J9	2	2	ADX	F	1.43	0.23	Actinolite	
		3	3	ADX	F	1.89	0.15	Actinolite	
		4	4	ADX	F	6.21	1.02	Actinolite	
	J6			NAM		1.84	0.28		
				NAM		1.58	0.4	CPX	
		5	5		B	1.84	0.25	Actinolite	
	J3			NAM		3.15	0.85	CPX	
	A1	6	6	AZQ	F	5.03	0.45	Actinolite	
	A3								
	A7								
	C8								
	C6								
	C4								
	C2								
	E1			NAM		5.4	1.17		
	E4								
	E7								
E9									
G5									
2	G3								
	B4	7	7	ADX	F	6.74	0.14	Actinolite	
	B6								
	B8								
	B10								
	D10								
	D8	8	8	ADX	F	10.31	0.05	Actinolite	
		9	9	ADX	F	5.53	0.27	Actinolite	
	D6								
	D4								
	D2								
	F1								
	F4	10	10	ADX	F	20.7	1.35	Actinolite	
	F7	11	11	ADX	B	10.8	0.14	Actinolite	
	G6	12	12	ADX	F	1.43	0.15	Actinolite	
G8	13	13	ADX	F	3.68	0.3	Actinolite		
	14	14	ADX	F	1.3	0.2	Actinolite		
	15	15	ADX	F	2.37	0.68	Actinolite		
G10	16	16	ADX	F	3.1	0.56	Actinolite		
H9	17	17	ADX	F	2.76	0.18	Actinolite		
I10	18	18	ADX	F	1.53	0.2	Actinolite		
	19	19	ADX	F	11.04	0.14	Actinolite		

Final Laboratory Report

TEM Bulk Protocol

Attention: David Raphael
K & L Gates
17 North Second Street
Harrisburg, PA 17101
US

Report Date: 08/12/2020
Sample Receipt Date:
RJ Lee Group Job No.: LLH901997-25
Authorization/P.O. No.:
Samples Received: 1
Client Job No.:

Method: EPA/R-93/600/116

TABLE 1 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos

Client Sample Number	RJLG Sample Number	<u>Total Structures</u>				-----Weight Percent----- <u>Total Structures</u> Analytical Sensitivity			
		Chry	Amph	Cleavage	Non Asbestos	Chry	Amph Asb	Amph Cleavage Fragment	Non Asbestos
12	3158158	0	3	9	4	<u>< 2.5E-6</u> 2.5E-6	<u>1.8E-2</u> 3.1E-6	<u>1.1E-1</u> 2.0E-6	<u>9.6E-2</u> 1.9E-6

NOTES

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RJ Lee Group Job No: LLH901997-25
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/12/2020

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos 5 μm

Client Sample Number	RJLG Sample Number	-----Structures 5 μm-----				-----Weight Percent----- Structures 5 μm Analytical Sensitivity			
		Chry	Amph	Cleavage	Non-Asbestos	Chry	Asb	Cleavage Fragment	Non-Asbestos
12	3158158	0	2	2	3	<u>< 2.5E-5</u> 2.5E-5	<u>1.3E-2</u> 3.1E-5	<u>1.0E-1</u> 2.0E-5	<u>9.6E-2</u> 1.9E-5

NOTES

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RJ Lee Group Job No: LLH901997-25
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/12/2020

Client Sample Number	RJLG Sample Number	Material Used (gm)	Area Analyzed Total (mm ²)	Area Analyzed 5 μm (mm ²)	Effective Filter Area (mm ²)	Dilution Factor
12	3158158	0.0004	0.30603	0.30603	1220	1.0

Authorized Signature: 
 Ashleigh Sload, Scientist

NOTES

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- Density of amphibole: 3.2 * 10⁻³ ng/ μ m³, density of chrysotile: 2.55 * 10⁻³ ng/ μ m³, density of non-asbestos: 3.00 * 10⁻³ ng/ μ m³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
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RJL: LLH901997-25	3158158.HTA1	Microscope tem2000fx1	Grid Openings	10
12	K & L Gates	Magnification 21 KX	Asbestos	3.0
Wt: 0.0004 gm	Grid: 0.0087 mm ²	Acc. Voltage 120 KV	Asbestos >= 5µm	2.0
Dil: 1.0	Filter Size: 47 mm	Operator: Jacquelyn Mershon	Nonasbestos	10.0
HQ45493		Cv = 0.21	Nonasbestos >= 5µm	2.0
			% Wt of largest asbestos structure	%

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1	1	1.53	0.14	Amphibole		MgSiCaFe			X	Acti	Cle
2	1	1.55	0.5	Amphibole		MgSiCaFe			X	Acti	Cle
3	1	3.73	0.4	Amphibole	F	MgSiCaFe16613C		Image1	Diff1	Acti	Asb
4	1	4.68	0.25	Amphibole		MgSiCaFe		Image2	X	Acti	Cle
4	2	10.81	1.15	Amphibole		MgSiCaFe			X	Acti	Cle
5	1	9.16	0.69	Amphibole		MgSiCaFe		Image3	X	Acti	Cle
6	1	1.26	0.1	Non-Asbestos		NaAlSiCa16615C		Image4	X		
6	2	5.42	0.2	Amphibole	F	MgSiCaFe			X	Acti	Asb
7				NSD							
8	1	1.38	0.25	Amphibole		MgSiCaFe			X	Acti	Cle
8	2	3.68	0.46	Amphibole		MgSiCaFe			X	Acti	Cle
8	3	0.97	0.15	Amphibole		MgSiCaFe			X	Acti	Cle
9				NSD							
10	1	2.65	0.46	Amphibole		MgSiCaFe			X	Acti	Cle
10	2	8.28	0.4	Amphibole	F	MgSiCaFe			X	Acti	Asb

10% Particulate

Analyst's Comments: N/A

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 7/31/2020 12:08:18 PM approve by Jacquelyn Mershon
 Final Review: 8/12/20 1:13 PM approve by Ashleigh Sload

RJL: LLH901997-25	3158158.HTA1	Microscope tem2000fx1	Grid Openings	25
12	K & L Gates	Magnification 10 KX	Asbestos	0.0
Wt: 0.0004 gm	Grid: 0.0087 mm ²	Acc. Voltage 120 KV	Nonasbestos	3.0
Dil: 1.0	Filter Size: 47 mm	Operator: Jacquelyn Mershon	% Wt of largest asbestos	%
HQ45493		Cv = 0	structure	

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1				NSD							
2				NSD							
3				NSD							
4				NSD							
5	1	5.31	0.86	Non-Asbestos		NaAlSiCa	16614C	Image1	X		
6				NSD							
7				NSD							
8	1	8.2	2	Non-Asbestos		MgAlSiCaFe	45859D	Image3	X		
9				NSD							
10				NSD							
11				NSD							
12				NSD							
13				NSD							
14				NSD							
15				NSD							
16				NSD							
17				NSD							
18				NSD							
19				NSD							
20				NSD							
21				NSD							
22				NSD							
23	1	7.02	1.17	Non-Asbestos		NaAlSiCa			X		
24				NSD							
25				NSD							

10% Particulate

Analyst's Comments: N/A

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 7/31/2020 11:17:30 AM approve by Jacquelyn Mershon

Final Review: 8/12/20 1:13 PM approve by Ashleigh Sload

Final Laboratory Report

TEM Bulk Protocol

Attention: David Raphael
K & L Gates
17 North Second Street
Harrisburg, PA 17101
US

Report Date: 08/12/2020
 Sample Receipt Date:
 RJ Lee Group Job No.: LLH901997-25
 Authorization/P.O. No.:
 Samples Received: 1
 Client Job No.:

Method: ISO 22262-2

TABLE 1 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos

Client Sample Number	RJLG Sample Number	<u>Total Structures</u>				-----Weight Percent----- <u>Total Structures</u> Analytical Sensitivity			
		Chry	Amph	Cleavage	Non Asbestos	Chry	Amph Asb	Amph Cleavage Fragment	Non Asbestos
12	3158158	0	3	9	4	<u>< 2.5E-6</u> 2.5E-6	<u>1.2E-2</u> 2.0E-6	<u>1.1E-1</u> 2.0E-6	<u>9.6E-2</u> 1.9E-6

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RJ Lee Group Job No: LLH901997-25
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/12/2020

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos 5 μm

Client Sample Number	RJLG Sample Number	-----Structures 5 μm-----				-----Weight Percent----- Structures 5 μm Analytical Sensitivity Amphibole			
		Chry	Amph	Cleavage	Non-Asbestos	Chry	Asb	Cleavage Fragment	Non-Asbestos
12	3158158	0	2	2	3	<u>< 2.5E-5</u> 2.5E-5	<u>8.3E-3</u> 2.0E-5	<u>1.0E-1</u> 2.0E-5	<u>9.6E-2</u> 1.9E-5

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RJ Lee Group Job No: LLH901997-25
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/12/2020

Client Sample Number	RJLG Sample Number	Material Used (gm)	Area Analyzed Total (mm ²)	Area Analyzed 5 μm (mm ²)	Effective Filter Area (mm ²)	Dilution Factor
12	3158158	0.0004	0.30603	0.30603	1220	1.0

Authorized Signature: 
 Ashleigh Sload, Scientist

NOTES

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- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
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RJ Lee Group, Inc
LLH901997-25
3158158.HTA1

K & L Gates
12

31-Jul-20

Air volume:

Area of collection filter:

Volume flowrate:

Level of analysis (chrysotile):

NA

Level of analysis (amphibole):

AZQ

0

Magnification used for structure counting:

Aspect ratio for fibre definition:

3:1

Mean dimension of grid openings:

0.0087436

Initials of analyst:

JM

Number of grid openings examined:

35

Analytical sensitivity:

Number of primary asbestos structures:

12

Number of asbestos structures counted:

12

Number of asbestos structures >5 µm:

4

Number of fibres and bundles > 5 µm:

4

Number of PCM equivalent asbestos structures:

3

Number of PCM equivalent asbestos fibres:

2

TEM asbestos structure count					
Report Number:	LLH901997-25				
Sample Number:	3158158.HTA1		Sample Weight:	0.0004	
Sample Description:	12		Filter area (mm ²):	1220	
			Magnification:	10/20 KX	
			Grid opening dimension (mm ²):	0.0087436	
Preparation date:	06/25/20	By:	Mk		
Analysis date:	07/31/20	By:	JM	Level of analysis (chrysotile)	NA
Computer entry date:	08/9/20	By:	MMK	Level of analysis (amphibole)	AZQ

Grid	Grid Opening	Structures		Identification	Structure type	Length (µm)	Width (µm)	Fibre Type	Comments
		primary	total						
1	H3	1	1	ADX	F	1.53	0.14	Actinolite	
	H5	2	2	ADX	F	1.55	0.5	Actinolite	
	H7	3	3	AZQ	F	3.73	0.4	Actinolite	
	H9	4	4	ADX	F	4.68	0.25	Actinolite	
		5	5	ADX	F	10.81	1.15	Actinolite	
	J8	6	6	ADX	B	18.32	0.69	Actinolite	
	B1			No Fibres					
	B3			No Fibres					
	B5			No Fibres					
	B7			No Fibres					
	B9			NAM		5.31	0.85		
	D10			No Fibres					
	D8			No Fibres					
	D6			NAM		8.2	2		
	D4			No Fibres					
	D2			No Fibres					
	F3			No Fibres					
F7			No Fibres						
F9			No Fibres						
2	B4			No Fibres					
	B6			No Fibres					
	B8			No Fibres					
	D10			No Fibres					
	D8			No Fibres					
	D6			No Fibres					
	D4			No Fibres					
	D2			No Fibres					
	F1			No Fibres					
	F3			NAM		7.02	1.17		
	F7			No Fibres					
	F9			No Fibres					
H1			NAM		1.26	0.1			
		7	7	ADX	F	5.42	0.2	Actinolite	
H3			No Fibres						
H5		8	8	ADX	F	1.38	0.25	Actinolite	
		9	9	ADX	F	3.68	0.46	Actinolite	
		10	10	ADX	F	0.97	0.15	Actinolite	
H7			No Fibres						
H9		11	11	ADX	F	2.65	0.46	Actinolite	
		12	12	ADX	F	8.28	0.4	Actinolite	

Final Laboratory Report

TEM Bulk Protocol

Attention: David Raphael
K & L Gates
17 North Second Street
Harrisburg, PA 17101
US

Report Date: 08/13/2020
Sample Receipt Date:
RJ Lee Group Job No.: LLH901997-25
Authorization/P.O. No.:
Samples Received: 1
Client Job No.:

Method: EPA/R-93/600/116

TABLE 1 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos

Client Sample Number	RJLG Sample Number	<u>Total Structures</u>				-----Weight Percent----- <u>Total Structures</u> Analytical Sensitivity			
		Chry	Amph	Cleavage	Non Asbestos	Chry	Amph Asb	Amph Cleavage Fragment	Non Asbestos
13	3158159	0	23	19	2	< 1.0E-5 1.0E-5	2.3E-1 1.3E-5	2.9E-1 8.0E-6	1.7E-3 7.5E-6

NOTES

1. "<" indicates results less than analytical sensitivity. "----" indicates that sample was not analyzed.
2. Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
3. If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
4. Density of amphibole: 3.2×10^{-3} ng/ μ m³, density of chrysotile: 2.55×10^{-3} ng/ μ m³, density of non-asbestos: 3.00×10^{-3} ng/ μ m³.
5. Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
6. Samples will be held for 90 days and then disposed of per Federal regulations.
7. These results are submitted pursuant to RJ Lee Group'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 these results are used or interpreted.

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RJ Lee Group Job No: LLH901997-25
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/13/2020

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos 5 μm

Client Sample Number	RJLG Sample Number	-----Structures 5 μm-----				-----Weight Percent----- Structures 5 μm Analytical Sensitivity Amphibole			
		Chry	Amph	Cleavage	Non-Asbestos	Chry	Asb	Cleavage Fragment	Non-Asbestos
13	3158159	0	15	6	0	<u>≤ 1.0E-4</u> 1.0E-4	<u>2.1E-1</u> 1.3E-4	<u>2.0E-1</u> 8.0E-5	<u>≤ 7.5E-5</u> 7.5E-5

NOTES

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- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2×10^{-3} ng/μm³, density of chrysotile: 2.55×10^{-3} ng/μm³, density of non-asbestos: 3.00×10^{-3} ng/μm³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
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RJ Lee Group Job No: LLH901997-25
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/13/2020

Client Sample Number	RJLG Sample Number	Material Used (gm)	Area Analyzed Total (mm ²)	Area Analyzed 5 μm (mm ²)	Effective Filter Area (mm ²)	Dilution Factor
13	3158159	0.0001	0.30603	0.30603	1220	1.0

Authorized Signature: 
 Ashleigh Sload, Scientist

NOTES

- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2 * 10⁻³ ng/ μ m³, density of chrysotile: 2.55 * 10⁻³ ng/ μ m³, density of non-asbestos: 3.00 * 10⁻³ ng/ μ m³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
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RJL: LLH901997-25	3158159.HTA1	Microscope tem2000fx2	Grid Openings	10
13	K & L Gates	Magnification 21 KX	Asbestos	16.0
Wt: 0.0001 gm	Grid: 0.0087 mm ²	Acc. Voltage 120 KV	Asbestos >= 5µm	8.0
Dil: 1.0	Filter Size: 47 mm	Operator: Jon Swope	Nonasbestos	17.0
HQ45493		Cv = 1.24	Nonasbestos >= 5µm	2.0
			% Wt of largest asbestos structure	%

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1	1	14.66	0.2	Amphibole	F	MgSiCaFe	16616C	Image1	Diff1	Acti	Asb
1	2	3.91	0.14	Amphibole	F	MgSiCaFe			X	Acti	Asb
1	3	3.22	0.46	Amphibole		MgSiCaFe			X	Acti	Cle
1	4	1.43	0.2	Non-Asbestos		AlSi	16617C	Image2	X		
2	1	1.38	0.23	Amphibole		MgSiCaFe			X	Acti	Cle
2	2	1.15	0.15	Non-Asbestos		AlSi			X		
2	3	2.29	0.05	Amphibole	F	MgSiCaFe			X	Acti	Asb
2	4	2.35	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
2	5	11.45	0.15	Amphibole	F	MgSiCaFe			X	Acti	Asb
2	6	3.68	0.05	Amphibole	F	MgSiCaFe			X	Acti	Asb
2	7	17.41	0.25	Amphibole	F	MgSiCaFe			X	Acti	Asb
3	1	5.06	0.61	Amphibole		MgSiCaFe			X	Acti	Cle
3	2	4.83	0.14	Amphibole	F	MgSiCaFe	16618C	Image3	Diff2	Acti	Asb
3	3	3.68	0.15	Amphibole	B	MgSiCaFe			X	Acti	Asb
3	4	2.29	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
4	1	10.81	0.45	Amphibole		MgSiCaFe		Image4	X	Acti	Cle
4	2	2.29	0.4	Amphibole		MgSiCaFe			X	Acti	Cle
4	3	12.27	0.14	Amphibole	F	MgSiCaFe			X	Acti	Asb
4	4	1.61	0.25	Amphibole		MgSiCaFe			X	Acti	Cle
5	1	2.65	0.08	Amphibole	F	MgSiCaFe			X	Acti	Asb
5	2	2.49	0.14	Amphibole	F	MgSiCaFe	16619C	Image5	Diff3	Acti	Asb
5	3	17.18	0.1	Amphibole	F	MgSiCaFe			X	Acti	Asb
5	4	2.96	0.51	Amphibole		MgSiCaFe			X	Acti	Cle
5	5	1.61	0.15	Amphibole		MgSiCaFe			X	Acti	Cle
6	1	2.4	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
6	2	12.5	0.4	Amphibole	F	MgSiCaFe			X	Acti	Asb
6	3	4.1	0.5	Amphibole		MgSiCaFe			X	Acti	Cle
7	1	5.1	0.05	Amphibole	F	MgSiCaFe			X	Acti	Asb
8	1	1.9	0.05	Amphibole	F	MgSiCaFe			X	Acti	Asb
9	1	3.5	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
9	2	1.9	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
10	1	11.6	0.1	Amphibole	F	MgSiCaFe			X	Acti	Asb
10	2	1.1	0.2	Amphibole		MgSiCaFe			X	Acti	Cle

10% Particulate

Analyst's Comments: N/A

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 7/31/2020 1:40:43 PM approve by Jacquelyn Mershon

Final Review: 8/13/20 9:27 AM approve by Ashleigh Sload

RJL: LLH901997-25	3158159.HTA1	Microscope tem2000fx2	Grid Openings	25
13	K & L Gates	Magnification 10 KX	Asbestos	7.0
Wt: 0.0001 gm	Grid: 0.0087 mm ²	Acc. Voltage 120 KV	Nonasbestos	4.0
Dil: 1.0	Filter Size: 47 mm	Operator: Jon Swope	% Wt of largest asbestos structure	%
HQ45493		Cv = 0.202		

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1	1	7.2	0.18	Amphibole	F	MgSiCaFe			X	Acti	Asb
2	1	6.74	0.09	Amphibole	F	MgSiCaFe			X	Acti	Asb
3	1	5.85	0.05	Amphibole	F	MgSiCaFe			X	Acti	Asb
4	1	7.2	0.26	Amphibole		MgSiCaFe	16620C	Image1	Diff1	Acti	Cle
5	1	9.1	0.18	Amphibole	F	MgSiCaFe			X	Acti	Asb
6	1	7.65	0.45	Amphibole		MgSiCaFe		Image2	X	Acti	Cle
6	2	9.9	0.18	Amphibole	F	MgSiCaFe			X	Acti	Asb
7				NSD							
8				NSD							
9				NSD							
10	1	15.72	0.45	Amphibole	F	MgSiCaFe			X	Acti	Asb
11				NSD							
12				NSD							
13				NSD							
14				NSD							
15				NSD							
16				NSD							
17				NSD							
18	1	5.1	0.05	Amphibole	F	MgSiCaFe	A115876D	Image4	Diff3	Acti	Asb
19				NSD							
20				NSD							
21				NSD							
22	1	6.8	0.6	Amphibole		MgSiCaFe			X	Acti	Cle
23				NSD							
24				NSD							
25	1	11.6	0.8	Amphibole		MgSiCaFe			X	Acti	Cle

10% Particulate

Analyst's Comments: N/A

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 7/31/2020 2:14:13 PM approve by Jacquelyn Mershon

Final Review: 8/13/20 9:27 AM approve by Ashleigh Sload

Final Laboratory Report

TEM Bulk Protocol

Attention: David Raphael
K & L Gates
17 North Second Street
Harrisburg, PA 17101
US

Report Date: 08/13/2020
Sample Receipt Date:
RJ Lee Group Job No.: LLH901997-25
Authorization/P.O. No.:
Samples Received: 1
Client Job No.:

Method: ISO 22262-2

TABLE 1 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos

Client Sample Number	RJLG Sample Number	<u>Total Structures</u>				-----Weight Percent----- <u>Total Structures</u> Analytical Sensitivity			
		Chry	Amph	Cleavage	Non Asbestos	Chry	Amph Asb	Amph Cleavage Fragment	Non Asbestos
13	3158159	0	23	19	2	< 1.0E-5 1.0E-5	1.4E-1 8.0E-6	2.9E-1 8.0E-6	1.7E-3 7.5E-6

NOTES

1. "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
2. Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
3. If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
4. Density of amphibole: 3.2×10^{-3} ng/ μ m³, density of chrysotile: 2.55×10^{-3} ng/ μ m³, density of non-asbestos: 3.00×10^{-3} ng/ μ m³.
5. Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
6. Samples will be held for 90 days and then disposed of per Federal regulations.
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RJ Lee Group Job No: LLH901997-25
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/13/2020

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos 5 μm

Client Sample Number	RJLG Sample Number	-----Structures 5 μm-----				-----Weight Percent----- Structures 5 μm Analytical Sensitivity Amphibole			
		Chry	Amph	Cleavage	Non-Asbestos	Chry	Asb	Cleavage Fragment	Non-Asbestos
13	3158159	0	15	6	0	<u>≤ 1.0E-4</u> 1.0E-4	<u>1.3E-1</u> 8.0E-5	<u>2.0E-1</u> 8.0E-5	<u>≤ 7.5E-5</u> 7.5E-5

NOTES

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- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2 * 10⁻³ ng/ μ m³, density of chrysotile: 2.55 * 10⁻³ ng/ μ m³, density of non-asbestos: 3.00 * 10⁻³ ng/ μ m³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
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RJ Lee Group Job No: LLH901997-25
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/13/2020

Client Sample Number	RJLG Sample Number	Material Used (gm)	Area Analyzed Total (mm ²)	Area Analyzed 5 μm (mm ²)	Effective Filter Area (mm ²)	Dilution Factor
13	3158159	0.0001	0.30603	0.30603	1220	1.0

Authorized Signature: 
 Ashleigh Sload, Scientist

NOTES

- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2 * 10⁻³ ng/ μ m³, density of chrysotile: 2.55 * 10⁻³ ng/ μ m³, density of non-asbestos: 3.00 * 10⁻³ ng/ μ m³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
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RJ Lee Group, Inc
LLH901997-25
3158159.HTA1

K & L Gates
13

31-Jul-20

Air volume:

Area of collection filter:

Volume flowrate:

Level of analysis (chrysotile):

NA

Level of analysis (amphibole):

AZQ

0

Magnification used for structure counting:

Aspect ratio for fibre definition:

3:1

Mean dimension of grid openings:

0.0087436

Initials of analyst:

JM

Number of grid openings examined:

35

Analytical sensitivity:

Number of primary asbestos structures:

42

Number of asbestos structures counted:

42

Number of asbestos structures >5 µm:

21

Number of fibres and bundles > 5 µm:

21

Number of PCM equivalent asbestos structures:

9

Number of PCM equivalent asbestos fibres:

9

TEM asbestos structure count					
Report Number:	LLH901997-25				
Sample Number:	3158159.HTA1		Sample Weight:	0.0001	
Sample Description:	13		Filter area (mm ²):	1220	
			Magnification:	10/20 KX	
			Grid opening dimension (mm ²)	0.0087436	
Preparation date:	06/25/20	By:	Mk		
Analysis date:	07/31/20	By:	JM	Level of analysis (chrysotile)	NA
Computer entry date:	08/9/20	By:	MMK	Level of analysis (amphibole)	AZQ

Grid	Grid Opening	Structures		Identification	Structure type	Length (µm)	Width (µm)	Fibre Type	Comments	
		primary	total							
1	H1	1	1	AZQ	F	14.66	0.2	Actinolite		
		2	2	ADX	F	3.91	0.14	Actinolite		
		3	3	ADX	F	3.22	0.46	Actinolite		
					NAM		1.43	0.2		
	H3	4	4	ADX	F	1.38	0.23	Actinolite		
					NAM		1.15	0.15		
		5	5	ADX	F	2.29	0.05	Actinolite		
		6	6	ADX	F	2.35	0.3	Actinolite		
		7	7	ADX	F	11.45	0.15	Actinolite		
	H5	8	8	ADX	F	3.68	0.05	Actinolite		
		9	9	ADX	F	17.41	0.25	Actinolite		
		10	10	ADX	F	5.06	0.61	Actinolite		
		11		AZQ	MD10	4.83	4.5	Actinolite		
				11	AZQ	MF	4.83	0.14	Actinolite	
		12	12	ADX	B	3.68	0.15	Actinolite		
		13	13	ADX	F	2.29	0.2	Actinolite		
	H7	14	14	ADX	F	10.81	0.45	Actinolite		
15		15	ADX	F	2.29	0.4	Actinolite			
16		16	ADX	F	12.27	0.14	Actinolite			
17		17	ADX	F	1.61	0.25	Actinolite			
J5	18	18	ADX	F	2.65	0.08	Actinolite			
	19	19	AZQ	F	2.49	0.14	Actinolite			
	20	20	ADX	F	17.18	0.1	Actinolite			
	21	21	ADX	F	2.96	0.51	Actinolite			
	22	22	ADX	F	1.61	0.15	Actinolite			
A2	23	23	ADX	F	7.2	0.18	Actinolite			
A4	24	24	ADX	F	6.74	0.09	Actinolite			
A6	25	25	ADX	F	5.85	0.05	Actinolite			
A8	26	26	ADX	F	7.2	0.26	Actinolite			
A10	27	27	ADX	F	9.1	0.18	Actinolite			
C10	28	28	ADX	F	7.65	0.45	Actinolite			
	29	29	ADX	F	9.9	0.18	Actinolite			
C8			No Fibres							
C6			No Fibres							
C4			No Fibres							
E2	30	30	ADX	F	15.72	0.45	Actinolite			
E8			No Fibres							
E10			No Fibres							
2	B1		No Fibres							
	B3		No Fibres							
	B5		No Fibres							
	B7		No Fibres							

TEM asbestos structure count					
Report Number:	LLH901997-25				
Sample Number:	3158159.HTA1		Sample Weight:	0.0001	
Sample Description:	13		Filter area (mm ²):	1220	
			Magnification:	10/20 KX	
			Grid opening dimension (mm ²)	0.0087436	
Preparation date:	06/25/20	By:	Mk		
Analysis date:	07/31/20	By:	JM	Level of analysis (chrysotile)	NA
Computer entry date:	08/9/20	By:	MMK	Level of analysis (amphibole)	AZQ

Grid	Grid Opening	Structures		Identification	Structure type	Length (µm)	Width (µm)	Fibre Type	Comments
		primary	total						
	B9			No Fibres					
	D9	31	31	AZQ	F	5.1	0.05	Actinolite	
	D7			No Fibres					
	D5			No Fibres					
	D3			No Fibres					
	D1	32	32	ADX	F	6.8	0.6	Actinolite	
	F1			No Fibres					
	F3			No Fibres					
	F7	33	33	ADX	F	11.6	0.8	Actinolite	
	H1			No Fibres					
		34	34	ADX	F	2.4	0.3	Actinolite	
		35	35	ADX	F	12.5	0.4	Actinolite	
	H3	36	36	ADX	F	4.1	0.5	Actinolite	
	H5	37	37	ADX	F	5.1	0.05	Actinolite	
	H7	38	38	ADX	F	1.9	0.05	Actinolite	
		39	39	ADX	F	3.5	0.3	Actinolite	
	H9	40	40	ADX	F	1.9	0.2	Actinolite	
		41	41	ADX	F	11.6	0.1	Actinolite	
		42	42	ADX	F	1.1	0.2	Actinolite	

Final Laboratory Report

TEM Bulk Protocol

Attention: David Raphael
K & L Gates
17 North Second Street
Harrisburg, PA 17101
US

Report Date: 08/12/2020
Sample Receipt Date:
RJ Lee Group Job No.: LLH901997-25
Authorization/P.O. No.:
Samples Received: 1
Client Job No.:

Method: EPA/R-93/600/116

TABLE 1 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos

Client Sample Number	RJLG Sample Number	<u>Total Structures</u>				-----Weight Percent----- <u>Total Structures</u> Analytical Sensitivity			
		Chry	Amph	Cleavage	Non Asbestos	Chry	Amph Asb	Amph Cleavage Fragment	Non Asbestos
14	3158160	0	4	5	1	<u>< 2.0E-6</u> 2.0E-6	<u>1.3E-3</u> 2.5E-6	<u>1.5E-2</u> 1.6E-6	<u>6.4E-4</u> 1.5E-6

NOTES

1. "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
2. Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
3. If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
4. Density of amphibole: 3.2×10^{-3} ng/ μ m³, density of chrysotile: 2.55×10^{-3} ng/ μ m³, density of non-asbestos: 3.00×10^{-3} ng/ μ m³.
5. Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
6. Samples will be held for 90 days and then disposed of per Federal regulations.
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RJ Lee Group Job No: LLH901997-25
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/12/2020

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos 5 μm

Client Sample Number	RJLG Sample Number	-----Structures 5 μm-----				-----Weight Percent----- Structures 5 μm Analytical Sensitivity			
		Chry	Amph	Cleavage	Non-Asbestos	Chry	Asb	Cleavage Fragment	Non-Asbestos
14	3158160	0	2	1	0	<u>< 2.0E-5</u> 2.0E-5	<u>1.1E-3</u> 2.5E-5	<u>6.5E-3</u> 1.6E-5	<u>< 1.5E-5</u> 1.5E-5

NOTES

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- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2 * 10⁻³ ng/ μ m³, density of chrysotile: 2.55 * 10⁻³ ng/ μ m³, density of non-asbestos: 3.00 * 10⁻³ ng/ μ m³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
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RJ Lee Group Job No: LLH901997-25
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/12/2020

Client Sample Number	RJLG Sample Number	Material Used (gm)	Area Analyzed Total (mm ²)	Area Analyzed 5 μm (mm ²)	Effective Filter Area (mm ²)	Dilution Factor
14	3158160	0.0005	0.30603	0.30603	1220	1.0

Authorized Signature: 
 Ashleigh Sload, Scientist

NOTES

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- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
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- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
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RJL: LLH901997-25	3158160.HTA1	Microscope tem2000fx1	Grid Openings	10
14	K & L Gates	Magnification 21 KX	Asbestos	3.0
Wt: 0.0005 gm	Grid: 0.0087 mm ²	Acc. Voltage 120 KV	Asbestos >= 5µm	1.0
Dil: 1.0	Filter Size: 47 mm	Operator: Jacquelyn Mershon	Nonasbestos	5.0
HQ45493		Cv = 0.41	Nonasbestos >= 5µm	0.0
			% Wt of largest asbestos structure	%

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1	1	2.76	0.43	Amphibole		MgSiCaFe			X	Acti	Cle
2	1	1.84	0.12	Amphibole		MgSiCaFe	16626C	Image1	Diff1	Acti	Cle
3	1	2.58	0.68	Amphibole		MgSiCaFe			X	Acti	Cle
4	1	3.91	0.2	Non-Asbestos		MgAlSiCaFe	16627C 15847D	Image2	Diff2 Diff3	CPX	
5				NSD							
6	1	1.96	0.08	Amphibole	F	MgSiCaFe			X	Acti	Asb
7				NSD							
8				NSD							
9				NSD							
10	1	6.87	0.1	Amphibole	F	MgSiCaFe			X	Acti	Asb
10	2	3.34	0.23	Amphibole		MgSiCaFe			X	Acti	Cle
10	3	2.76	0.08	Amphibole	F	MgSiCaFe			X	Acti	Asb

8% Particulate

Analyst's Comments: N/A

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 8/3/2020 11:31:01 AM approve by Jacquelyn Mershon

Final Review: 8/12/20 1:42 PM approve by Ashleigh Sload

RJL: LLH901997-25	3158160.HTA1	Microscope tem2000fx1	Grid Openings	25
14	K & L Gates	Magnification 10 KX	Asbestos	1.0
Wt: 0.0005 gm	Grid: 0.0087 mm ²	Acc. Voltage 120 KV	Nonasbestos	1.0
Dil: 1.0	Filter Size: 47 mm	Operator: Jacquelyn Mershon	% Wt of largest asbestos	%
HQ45493		Cv = 0.038	structure	

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1				NSD							
2				NSD							
3				NSD							
4				NSD							
5				NSD							
6				NSD							
7				NSD							
8				NSD							
9				NSD							
10				NSD							
11				NSD							
12				NSD							
13				NSD							
14				NSD							
15				NSD							
16				NSD							
17				NSD							
18	1	7.2	0.18	Amphibole	M	MgSiCaFe16632C	Image1	Diff1	Acti	Asb	
19				NSD							
20				NSD							
21	1	7.2	0.72	Amphibole		MgSiCaFe		X	Acti	Cle	
22				NSD							
23				NSD							
24				NSD							
25				NSD							

8% Particulate

Analyst's Comments: N/A

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 8/3/2020 11:01:04 AM approve by Jacquelyn Mershon

Final Review: 8/5/20 10:11 AM approve by Ashleigh Sload

Final Laboratory Report

TEM Bulk Protocol

Attention: David Raphael
K & L Gates
17 North Second Street
Harrisburg, PA 17101
US

Report Date: 08/12/2020
Sample Receipt Date:
RJ Lee Group Job No.: LLH901997-25
Authorization/P.O. No.:
Samples Received: 1
Client Job No.:

Method: ISO 22262-2

TABLE 1 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos

Client Sample Number	RJLG Sample Number	<u>Total Structures</u>				-----Weight Percent----- <u>Total Structures</u> Analytical Sensitivity			
		Chry	Amph	Cleavage	Non Asbestos	Chry	Amph Asb	Amph Cleavage Fragment	Non Asbestos
14	3158160	0	4	5	1	< 2.0E-6 2.0E-6	8.3E-4 1.6E-6	1.5E-2 1.6E-6	6.4E-4 1.5E-6

NOTES

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2. Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
3. If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
4. Density of amphibole: 3.2×10^{-3} ng/ μ m³, density of chrysotile: 2.55×10^{-3} ng/ μ m³, density of non-asbestos: 3.00×10^{-3} ng/ μ m³.
5. Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
6. Samples will be held for 90 days and then disposed of per Federal regulations.
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RJ Lee Group Job No: LLH901997-25
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/12/2020

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos 5 μm

Client Sample Number	RJLG Sample Number	-----Structures 5 μm-----				-----Weight Percent----- Structures 5 μm Analytical Sensitivity			
		Chry	Amph	Cleavage	Non-Asbestos	Amphibole			
						Chry	Asb	Cleavage Fragment	Non-Asbestos
14	3158160	0	2	1	0	<u>< 2.0E-5</u> 2.0E-5	<u>7.0E-4</u> 1.6E-5	<u>6.5E-3</u> 1.6E-5	<u>< 1.5E-5</u> 1.5E-5

NOTES

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- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2×10^{-3} ng/μm³, density of chrysotile: 2.55×10^{-3} ng/μm³, density of non-asbestos: 3.00×10^{-3} ng/μm³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
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RJ Lee Group, Inc.

Final Laboratory Report (cont'd)

RJ Lee Group Job No: LLH901997-25
Client Job No/Name:

Client: K & L Gates
Report Date: 08/12/2020

Client Sample Number	RJLG Sample Number	Material Used (gm)	Area Analyzed Total (mm ²)	Area Analyzed 5 μm (mm ²)	Effective Filter Area (mm ²)	Dilution Factor
14	3158160	0.0005	0.30603	0.30603	1220	1.0

Authorized Signature: 
Ashleigh Sload, Scientist

NOTES

- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2×10^{-3} ng/μm³, density of chrysotile: 2.55×10^{-3} ng/μm³, density of non-asbestos: 3.00×10^{-3} ng/μm³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
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RJ Lee Group, Inc
LLH901997-25
3158160.HTA1

K & L Gates
14

31-Jul-20

Air volume:

Area of collection filter:

Volume flowrate:

Level of analysis (chrysotile):

NA

Level of analysis (amphibole):

AZQ

0

Magnification used for structure counting:

Aspect ratio for fibre definition:

3:1

Mean dimension of grid openings:

0.0087436

Initials of analyst:

JM

Number of grid openings examined:

35

Analytical sensitivity:

Number of primary asbestos structures:

9

Number of asbestos structures counted:

9

Number of asbestos structures >5 µm:

3

Number of fibres and bundles > 5 µm:

2

Number of PCM equivalent asbestos structures:

2

Number of PCM equivalent asbestos fibres:

1

TEM asbestos structure count					
Report Number:	LLH901997-25				
Sample Number:	3158160.HTA1		Sample Weight:	0.0005	
Sample Description:	14		Filter area (mm ²):	1220	
			Magnification:	10/20 KX	
			Grid opening dimension (mm ²)	0.0087436	
Preparation date:	06/25/20	By:	Mk		
Analysis date:	07/31/20	By:	JM	Level of analysis (chrysotile)	NA
Computer entry date:	08/9/20	By:	MMK	Level of analysis (amphibole)	AZQ

Grid	Grid Opening	Structures		Identification	Structure type	Length (µm)	Width (µm)	Fibre Type	Comments
		primary	total						
1	I2	1	1	ADX	F	2.76	0.43	Actinolite	
	I4	2	2	AZQ	F	1.84	0.12	Actinolite	
	I6	3	3	ADX	F	2.58	0.68	Actinolite	
	I8			NAM		3.91	0.2	CPX	
	I10			No Fibres					
	A1			No Fibres					
	A4			No Fibres					
	A6			No Fibres					
	A8			No Fibres					
	C7			No Fibres					
	C5			No Fibres					
	C3			No Fibres					
	C1			No Fibres					
	E1			No Fibres					
	E3			No Fibres					
	E7			No Fibres					
	E9			No Fibres					
2	B1			No Fibres					
	B3			No Fibres					
	B9			No Fibres					
	D9			No Fibres					
	D7			No Fibres					
	D5	4		AZQ	MD11	8	2	Actinolite	
			4	AZQ	MF	7.2	0.18	Actinolite	
	D3			No Fibres					
	F2			No Fibres					
	F4	5	5	ADX	F	7.2	0.72	Actinolite	
	F8			No Fibres					
	F10			No Fibres					
	H9			No Fibres					
	H7			No Fibres					
	H1	6	6	ADX	F	1.96	0.08	Actinolite	
	H3								
	H5								
	H7								
	H9	7	7	ADX	F	6.87	0.1	Actinolite	
		8	8	ADX	F	3.34	0.23	Actinolite	
		9	9	ADX	F	2.76	0.08	Actinolite	

Final Laboratory Report

TEM Bulk Protocol

Attention: David Raphael
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Report Date: 08/12/2020
Sample Receipt Date:
RJ Lee Group Job No.: LLH901997-25
Authorization/P.O. No.:
Samples Received: 1
Client Job No.:

Method: EPA/R-93/600/116

TABLE 1 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos

Client Sample Number	RJLG Sample Number	<u>Total Structures</u>				-----Weight Percent----- <u>Total Structures</u> Analytical Sensitivity			
		Chry	Amph	Cleavage	Non Asbestos	Chry	Amph Asb	Amph Cleavage Fragment	Non Asbestos
15	3158161	0	10	16	2	< 1.7E-6 1.7E-6	1.1E-2 2.1E-6	1.4E-1 1.3E-6	3.5E-3 1.2E-6

NOTES

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- Density of amphibole: 3.2×10^{-3} ng/ μ m³, density of chrysotile: 2.55×10^{-3} ng/ μ m³, density of non-asbestos: 3.00×10^{-3} ng/ μ m³.
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RJ Lee Group Job No: LLH901997-25
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/12/2020

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos 5 μm

Client Sample Number	RJLG Sample Number	-----Structures 5 μm-----				-----Weight Percent----- Structures 5 μm Analytical Sensitivity			
		Chry	Amph	Cleavage	Non-Asbestos	Chry	Asb	Cleavage Fragment	Non-Asbestos
15	3158161	0	5	6	1	<u>≤ 1.7E-5</u> 1.7E-5	<u>9.5E-3</u> 2.1E-5	<u>1.2E-1</u> 1.3E-5	<u>1.2E-3</u> 1.2E-5

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- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2 * 10⁻³ ng/ μ m³, density of chrysotile: 2.55 * 10⁻³ ng/ μ m³, density of non-asbestos: 3.00 * 10⁻³ ng/ μ m³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
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RJ Lee Group Job No: LLH901997-25
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/12/2020

Client Sample Number	RJLG Sample Number	Material Used (gm)	Area Analyzed Total (mm ²)	Area Analyzed 5 μm (mm ²)	Effective Filter Area (mm ²)	Dilution Factor
15	3158161	0.0006	0.30603	0.30603	1220	1.0

Authorized Signature: 
 Ashleigh Sload, Scientist

NOTES

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- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2 * 10⁻³ ng/ μ m³, density of chrysotile: 2.55 * 10⁻³ ng/ μ m³, density of non-asbestos: 3.00 * 10⁻³ ng/ μ m³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
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RJ Lee Group, Inc.
TEM Count Sheet

RJL: LLH901997-25	3158161.HTA1	Microscope tem2000fx1	Grid Openings	10
15	K & L Gates	Magnification 21 KX	Asbestos	7.0
Wt: 0.0006 gm	Grid: 0.0087 mm ²	Acc. Voltage 120 KV	Asbestos >= 5µm	2.0
Dil: 1.0	Filter Size: 47 mm	Operator: Jacquelyn Mershon	Nonasbestos	14.0
HQ45493		Cv = 1.61	Nonasbestos >= 5µm	3.0
			% Wt of largest asbestos structure	%

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1				NSD							
2	1	7.33	0.1	Amphibole	F	MgSiCaFe16633C		Image1	Diff1	Acti	Asb
3	1	5.52	0.97	Amphibole		MgSiCaFe			X	Acti	Cle
3	2	4.14	0.6	Amphibole		MgSiCaFe			X	Acti	Cle
3	3	1.04	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
4	1	5.52	0.87	Amphibole		MgSiCaFe			X	Acti	Cle
5	1	2.52	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
5	2	8.48	0.25	Amphibole	B	MgSiCaFe			X	Acti	Asb
5	3	3.22	0.15	Amphibole	F	MgSiCaFe			X	Acti	Asb
6	1	5.52	0.25	Non-Asbestos		NaAlSiCa16634C		Image2	X		
6	2	1.38	0.12	Amphibole		MgSiCaFe			X	Acti	Cle
7	1	2.76	0.25	Amphibole		MgSiCaFe			X	Acti	Cle
8	1	2.07	0.23	Amphibole		MgSiCaFe16635C		Image3	Diff2	Acti	Cle
8	2	1.84	0.15	Amphibole		MgSiCaFe			X	Acti	Cle
9	1	3.22	0.45	Amphibole		MgSiCaFe			X	Acti	Cle
9	2	3.44	0.61	Amphibole		MgSiCaFe			X	Acti	Cle
9	3	2.27	0.55	Non-Asbestos		NaAlSiCaFe16749C		Image4	X		
10	1	2.07	0.12	Amphibole	F	MgSiCaFe			X	Acti	Asb
10	2	1.84	0.25	Amphibole		MgSiCaFe			X	Acti	Cle
10	3	2.29	0.1	Amphibole	F	MgSiCaFe			X	Acti	Asb
10	4	4.37	0.1	Amphibole	F	MgSiCaFe			X	Acti	Asb
10	5	2.29	0.1	Amphibole	F	MgSiCaFe			X	Acti	Asb

8% Particulate

Analyst's Comments: N/A

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 8/3/2020 12:51:06 PM approve by Jacquelyn Mershon

Final Review: 8/12/20 1:21 PM approve by Ashleigh Sload

RJL: LLH901997-25	3158161.HTA1	Microscope tem2000fx1	Grid Openings	25
15	K & L Gates	Magnification 10 KX	Asbestos	3.0
Wt: 0.0006 gm	Grid: 0.0087 mm ²	Acc. Voltage 120 KV	Nonasbestos	4.0
Dil: 1.0	Filter Size: 47 mm	Operator: Jacquelyn Mershon	% Wt of largest asbestos	%
HQ45493		Cv = 0.106	structure	

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1	1	7.88	0.72	Amphibole		SiCaMgFeAl	6636C	Image2	Diff1	Acti	Cle
2				NSD							
3				NSD							
4				NSD							
5	1	8.98	2.25	Amphibole		MgSiCaFe			X	Acti	Cle
6				NSD							
7				NSD							
8				NSD							
9				NSD							
10	1	8.55	1.17	Amphibole		MgSiCaFe			X	Acti	Cle
11				NSD							
12				NSD							
13				NSD							
14				NSD							
15	1	6.98	0.32	Amphibole	F	MgSiCaFe			X	Acti	Asb
16	1	5.4	0.45	Amphibole		MgSiCaFe			X	Acti	Cle
17				NSD							
18				NSD							
19				NSD							
20				NSD							
21				NSD							
22	1	8.1	0.36	Amphibole	F	MgSiCaFe			X	Acti	Asb
23				NSD							
24	1	11.7	0.27	Amphibole	F	MgSiCaFe			X	Acti	Asb
25				NSD							

8% Particulate

Analyst's Comments: N/A

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 8/3/2020 1:19:33 PM approve by Jacquelyn Mershon

Final Review: 8/12/20 1:21 PM approve by Ashleigh Sload

Final Laboratory Report

TEM Bulk Protocol

Attention: David Raphael
K & L Gates
17 North Second Street
Harrisburg, PA 17101
US

Report Date: 08/12/2020
 Sample Receipt Date:
 RJ Lee Group Job No.: LLH901997-25
 Authorization/P.O. No.:
 Samples Received: 1
 Client Job No.:

Method: ISO 22262-2

TABLE 1 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos

Client Sample Number	RJLG Sample Number	<u>Total Structures</u>				-----Weight Percent----- <u>Total Structures</u> Analytical Sensitivity			
		Chry	Amph	Cleavage	Non Asbestos	Chry	Amph Asb	Amph Cleavage Fragment	Non Asbestos
15	3158161	0	10	16	2	< 1.7E-6 1.7E-6	6.6E-3 1.3E-6	1.4E-1 1.3E-6	3.5E-3 1.2E-6

NOTES

1. "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
2. Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
3. If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
4. Density of amphibole: 3.2×10^{-3} ng/ μ m³, density of chrysotile: 2.55×10^{-3} ng/ μ m³, density of non-asbestos: 3.00×10^{-3} ng/ μ m³.
5. Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
6. Samples will be held for 90 days and then disposed of per Federal regulations.
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RJ Lee Group Job No: LLH901997-25
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/12/2020

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos 5 μm

Client Sample Number	RJLG Sample Number	-----Structures 5 μm-----				-----Weight Percent----- Structures 5 μm Analytical Sensitivity Amphibole			
		Chry	Amph	Cleavage	Non-Asbestos	Chry	Asb	Cleavage Fragment	Non-Asbestos
15	3158161	0	5	6	1	<u>< 1.7E-5</u> 1.7E-5	<u>5.9E-3</u> 1.3E-5	<u>1.2E-1</u> 1.3E-5	<u>1.2E-3</u> 1.2E-5

NOTES

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RJ Lee Group Job No: LLH901997-25
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/12/2020

Client Sample Number	RJLG Sample Number	Material Used (gm)	Area Analyzed Total (mm ²)	Area Analyzed 5 μm (mm ²)	Effective Filter Area (mm ²)	Dilution Factor
15	3158161	0.0006	0.30603	0.30603	1220	1.0

Authorized Signature: 
 Ashleigh Sload, Scientist

NOTES

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RJ Lee Group, Inc
LLH901997-25
3158161.HTA1

K & L Gates
15

31-Jul-20

Air volume:

Area of collection filter:

Volume flowrate:

Level of analysis (chrysotile):

NA

Level of analysis (amphibole):

AZQ

0

Magnification used for structure counting:

Aspect ratio for fibre definition:

3:1

Mean dimension of grid openings:

0.0087436

Initials of analyst:

JM

Number of grid openings examined:

35

Analytical sensitivity:

Number of primary asbestos structures:

26

Number of asbestos structures counted:

26

Number of asbestos structures >5 µm:

11

Number of fibres and bundles > 5 µm:

11

Number of PCM equivalent asbestos structures:

10

Number of PCM equivalent asbestos fibres:

9

TEM asbestos structure count					
Report Number:	LLH901997-25				
Sample Number:	3158161.HTA1			Sample Weight:	0.0006
Sample Description:	15			Filter area (mm2):	1220
				Magnification:	10/20 KX
				Grid opening dimension (mm2)	0.0087436
Preparation date:	06/25/20	By:	Mk		
Analysis date:	07/31/20	By:	JM	Level of analysis (chrysotile)	NA
Computer entry date:	08/9/20	By:	MMK	Level of analysis (amphibole)	AZQ

Grid	Grid Opening	Structures		Identification	Structure type	Length (µm)	Width (µm)	Fibre Type	Comments
		primary	total						
1	I1			No Fibres					
	I3	1	1	AZQ	F	7.33	0.1	Actinolite	
	I5	2	2	ADX	F	5.52	0.97	Actinolite	
		3	3	ADX	F	4.14	0.6	Actinolite	
		4	4	ADX	F	1.04	0.2	Actinolite	
	I7	5	5	ADX	F	5.52	0.87	Actinolite	
	J6	6	6	ADX	F	2.52	0.3	Actinolite	
		7	7	ADX	B	8.48	0.25	Actinolite	
		8	8	ADX	F	3.22	0.15	Actinolite	
	B2	9	9	AZQ	F	7.88	0.72	Actinolite	
	B4			No Fibres					
	B6			No Fibres					
	B8			No Fibres					
	D1	10	10	ADX	F	8.98	2.25	Actinolite	
	D3			No Fibres					
	D5			No Fibres					
	D7			No Fibres					
	F1			No Fibres					
	F3	11	11	ADX	F	8.55	1.17	Actinolite	
	F7			No Fibres					
	H8			No Fibres					
	H6			No Fibres					
2	B3			No Fibres					
	B5	12	12	ADX	F	6.98	0.32	Actinolite	
	B7	13	13	ADX	F	5.4	0.45	Actinolite	
	B9			No Fibres					
	D10			No Fibres					
	D8			No Fibres					
	D6			No Fibres					
	D4			No Fibres					
	D2	14	14	ADX	F	8.1	0.36	Actinolite	
	F4			No Fibres					
	F8	15	15	ADX	F	11.7	0.27	Actinolite	
	F10			No Fibres					
	H1			NAM		5.52	0.25		
		16	16	ADX	F	1.38	0.12	Actinolite	
	H3	17	17	ADX	F	2.76	0.25	Actinolite	
	H5	18	18	ADX	F	2.07	0.23	Actinolite	
		19	19	ADX	F	1.84	0.15	Actinolite	
	H7	20	20	ADX	F	3.22	0.45	Actinolite	
		21	21	ADX	F	3.44	0.61	Actinolite	
				NAM		2.27	0.55		
	G9	22	22	ADX	F	2.07	0.12	Actinolite	

TEM asbestos structure count					
Report Number:	LLH901997-25				
Sample Number:	3158161.HTA1		Sample Weight:	0.0006	
Sample Description:	15		Filter area (mm ²):	1220	
			Magnification:	10/20 KX	
			Grid opening dimension (mm ²)	0.0087436	
Preparation date:	06/25/20	By:	Mk		
Analysis date:	07/31/20	By:	JM	Level of analysis (chrysotile)	NA
Computer entry date:	08/9/20	By:	MMK	Level of analysis (amphibole)	AZQ

Grid	Grid Opening	Structues		Identification	Structure type	Length (µm)	Width (µm)	Fibre Type	Comments
		primary	total						
		23	23	ADX	F	1.84	0.25	Actinolite	
		24	24	ADX	F	2.29	0.1	Actinolite	
		25	25	ADX	F	4.37	0.1	Actinolite	
		26	26	ADX	F	2.29	0.1	Actinolite	

Final Laboratory Report

TEM Bulk Protocol

Attention: David Raphael
K & L Gates
17 North Second Street
Harrisburg, PA 17101
US

Report Date: 08/05/2020
Sample Receipt Date:
RJ Lee Group Job No.: LLH901997-25
Authorization/P.O. No.:
Samples Received: 1
Client Job No.:

Method: EPA/R-93/600/116

TABLE 1 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos

Client Sample Number	RJLG Sample Number	Total Structures				-----Weight Percent----- Total Structures Analytical Sensitivity			
		Chry	Amph	Cleavage	Non Asbestos	Chry	Amph Asb	Amph Cleavage Fragment	Non Asbestos
16	3158162	0	2	7	2	< 2.0E-6 2.0E-6	6.4E-4 2.5E-6	1.3E-1 1.6E-6	4.9E-2 1.5E-6

NOTES

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RJ Lee Group Job No: LLH901997-25
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/05/2020

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos 5 μm

Client Sample Number	RJLG Sample Number	-----Structures 5 μm-----				-----Weight Percent----- Structures 5 μm Analytical Sensitivity			
		Chry	Amph	Cleavage	Non-Asbestos	Amphibole			
						Chry	Asb	Cleavage Fragment	Non-Asbestos
16	3158162	0	1	3	2	<u>< 2.0E-5</u> 2.0E-5	<u>5.0E-4</u> 2.5E-5	<u>1.3E-1</u> 1.6E-5	<u>4.9E-2</u> 1.5E-5

NOTES

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RJ Lee Group Job No: LLH901997-25
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/05/2020

Client Sample Number	RJLG Sample Number	Material Used (gm)	Area Analyzed Total (mm ²)	Area Analyzed 5 μm (mm ²)	Effective Filter Area (mm ²)	Dilution Factor
16	3158162	0.0005	0.30603	0.30603	1220	1.0

Authorized Signature: 
 Ashleigh Sload, Scientist

NOTES

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RJL: LLH901997-25	3158162.HTA1	Microscope tem2000fx2	Grid Openings	10
16	K & L Gates	Magnification 21 KX	Asbestos	2.0
Wt: 0.0005 gm	Grid: 0.0087 mm ²	Acc. Voltage 120 KV	Asbestos >= 5µm	1.0
Dil: 1.0	Filter Size: 47 mm	Operator: Jon Swope	Nonasbestos	4.0
HQ45493		Cv = 0.16	Nonasbestos >= 5µm	0.0
			% Wt of largest asbestos structure	%

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1				NSD							
2				NSD							
3	1	5.2	0.12	Amphibole	M	MgSiCaFe15787D	Image1	Diff1	Acti	Asb	
4	1	2.3	0.2	Amphibole		MgSiCaFe		X	Acti	Cle	
5	1	1.7	0.2	Amphibole		MgSiCaFe		X	Acti	Cle	
6	1	2.5	0.4	Amphibole		MgSiCaFe		X	Acti	Cle	
7				NSD							
8				NSD							
9	1	2.5	0.3	Amphibole		MgSiCaFe		X	Acti	Cle	
10	1	2.2	0.1	Amphibole	F	MgSiCaFe		X	Acti	Asb	

10% Particulate

Analyst's Comments: N/A

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 8/3/2020 12:40:11 PM approve by Jon Swope

Final Review: 8/5/20 10:56 AM approve by Ashleigh Sload

RJ Lee Group, Inc.
TEM Count Sheet

RJL: LLH901997-25	3158162.HTA1	Microscope tem2000fx2	Grid Openings	25
16	K & L Gates	Magnification 10 KX	Asbestos	0.0
Wt: 0.0005 gm	Grid: 0.0087 mm ²	Acc. Voltage 120 KV	Nonasbestos	5.0
Dil: 1.0	Filter Size: 47 mm	Operator: Jon Swope	% Wt of largest asbestos structure	%
HQ45493		Cv = 0		

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1				NSD							
2				NSD							
3				NSD							
4				NSD							
5	1	8.6	0.9	Non-Asbestos		MgSiCaFe	15788D	Image1	Diff1 Diff2	CPX	
5	2	6.1	0.55	Amphibole		MgSiCaFeAl	15789D	Image2	Diff3	Acti	Cle
6				NSD							
7	1	11.5	1.4	Amphibole		MgSiCaFe			X	Acti	Cle
8				NSD							
9				NSD							
10				NSD							
11				NSD							
12				NSD							
13				NSD							
14				NSD							
15	1	11.8	2.1	Amphibole		MgSiCaFe			X	Acti	Cle
16				NSD							
17	1	8.9	1.6	Non-Asbestos		MgSiCaFe			X	CPX	
18				NSD							
19				NSD							
20				NSD							
21				NSD							
22				NSD							
23				NSD							
24				NSD							
25				NSD							

10% Particulate

Analyst's Comments: N/A

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 8/3/2020 1:18:17 PM approve by Jon Swope

Final Review: 8/5/20 10:56 AM approve by Ashleigh Sload

Final Laboratory Report

TEM Bulk Protocol

Attention: David Raphael
K & L Gates
17 North Second Street
Harrisburg, PA 17101
US

Report Date: 08/05/2020
Sample Receipt Date:
RJ Lee Group Job No.: LLH901997-25
Authorization/P.O. No.:
Samples Received: 1
Client Job No.:

Method: ISO 22262-2

TABLE 1 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos

Client Sample Number	RJLG Sample Number	<u>Total Structures</u>				-----Weight Percent----- <u>Total Structures</u> Analytical Sensitivity			
		Chry	Amph	Cleavage	Non Asbestos	Chry	Amph Asb	Amph Cleavage Fragment	Non Asbestos
16	3158162	0	2	7	2	< 2.0E-6 2.0E-6	4.2E-4 1.6E-6	1.3E-1 1.6E-6	4.9E-2 1.5E-6

NOTES

1. "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
2. Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
3. If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
4. Density of amphibole: 3.2×10^{-3} ng/ μ m³, density of chrysotile: 2.55×10^{-3} ng/ μ m³, density of non-asbestos: 3.00×10^{-3} ng/ μ m³.
5. Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
6. Samples will be held for 90 days and then disposed of per Federal regulations.
7. These results are submitted pursuant to RJ Lee Group'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 these results are used or interpreted.

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RJ Lee Group Job No: LLH901997-25
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/05/2020

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos 5 μm

Client Sample Number	RJLG Sample Number	-----Structures 5 μm-----				-----Weight Percent----- Structures 5 μm Analytical Sensitivity			
		Chry	Amph	Cleavage	Non-Asbestos	Chry	Asb	Cleavage Fragment	Non-Asbestos
16	3158162	0	1	3	2	<u>< 2.0E-5</u> 2.0E-5	<u>3.2E-4</u> 1.6E-5	<u>1.3E-1</u> 1.6E-5	<u>4.9E-2</u> 1.5E-5

NOTES

- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2 * 10⁻³ ng/ μ m³, density of chrysotile: 2.55 * 10⁻³ ng/ μ m³, density of non-asbestos: 3.00 * 10⁻³ ng/ μ m³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
- These results are submitted pursuant to RJ Lee Group'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 these results are used or interpreted.

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RJ Lee Group Job No: LLH901997-25
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/05/2020

Client Sample Number	RJLG Sample Number	Material Used (gm)	Area Analyzed Total (mm ²)	Area Analyzed 5 μm (mm ²)	Effective Filter Area (mm ²)	Dilution Factor
16	3158162	0.0005	0.30603	0.30603	1220	1.0

Authorized Signature: 
 Ashleigh Sload, Scientist

NOTES

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- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2 * 10⁻³ ng/ μ m³, density of chrysotile: 2.55 * 10⁻³ ng/ μ m³, density of non-asbestos: 3.00 * 10⁻³ ng/ μ m³.
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RJ Lee Group, Inc
LLH901997-25
3158162.HTA1

K & L Gates
16

03-Aug-20

Air volume:

Area of collection filter:

Volume flowrate:

Level of analysis (chrysotile):

NA

Level of analysis (amphibole):

AZQ

0

Magnification used for structure counting:

Aspect ratio for fibre definition:

3:1

Mean dimension of grid openings:

0.0087436

Initials of analyst:

JS

Number of grid openings examined:

35

Analytical sensitivity:

Number of primary asbestos structures:

9

Number of asbestos structures counted:

9

Number of asbestos structures >5 µm:

4

Number of fibres and bundles > 5 µm:

3

Number of PCM equivalent asbestos structures:

4

Number of PCM equivalent asbestos fibres:

3

TEM asbestos structure count					
Report Number:	LLH901997-25				
Sample Number:	3158162.HTA1		Sample Weight:	0.0005	
Sample Description:	16		Filter area (mm ²):	1220	
			Magnification:	10/20 KX	
			Grid opening dimension (mm ²):	0.0087436	
Preparation date:	06/25/20	By:	Mk		
Analysis date:	08/3/20	By:	JS	Level of analysis (chrysotile)	NA
Computer entry date:	08/9/20	By:	MMK	Level of analysis (amphibole)	AZQ

Grid	Grid Opening	Structures		Identification	Structure type	Length (µm)	Width (µm)	Fibre Type	Comments	
		primary	total							
1	I1			No Fibres						
	I3			No Fibres						
	I5	1		AZQ	MD10	5.5	0.5	Actinolite		
			1		AZQ	MF	5.2	0.1	Actinolite	
	I7	2	2	ADX	F	2.3	0.2	Actinolite		
	I9	3	3	ADX	F	1.7	0.2	Actinolite		
	B1			No Fibres						
	B3			No Fibres						
	B5			No Fibres						
	B7			No Fibres						
2	B9			NAM		8.6	0.9	CPX		
		4	4	AZQ	F	6.1	0.55	Actinolite		
	D10			No Fibres						
	D8	5	5	ADX	F	11.5	1.4	Actinolite		
	D6			No Fibres						
	D4			No Fibres						
	D2			No Fibres						
	F1			No Fibres						
	F3			No Fibres						
	F7			No Fibres						
7	B1			No Fibres						
	B3	6	6	ADX	F	11.8	2.1	Actinolite		
	B5			No Fibres						
	B7			NAM		8.9	1.6	CPX		
	D8			No Fibres						
	D6			No Fibres						
	D4			No Fibres						
	D2			No Fibres						
	F1			No Fibres						
	F3			No Fibres						
8	F7			No Fibres						
	E9			No Fibres						
	I1	7	7	ADX	F	2.5	0.4	Actinolite		
	I3			No Fibres						
	I5			No Fibres						
9	I7	8	8	ADX	F	2.5	0.3	Actinolite		
	I9	9	9	ADX	F	2.2	0.1	Actinolite		

Final Laboratory Report

TEM Bulk Protocol

Attention: David Raphael
K & L Gates
17 North Second Street
Harrisburg, PA 17101
US

Report Date: 08/05/2020
Sample Receipt Date:
RJ Lee Group Job No.: LLH901997-25
Authorization/P.O. No.:
Samples Received: 1
Client Job No.:

Method: EPA/R-93/600/116

TABLE 1 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos

Client Sample Number	RJLG Sample Number	Total Structures				-----Weight Percent----- Total Structures Analytical Sensitivity			
		Chry	Amph	Cleavage	Non Asbestos	Chry	Amph Asb	Amph Cleavage Fragment	Non Asbestos
1	3158163	0	1	2	1	< 3.3E-6 3.3E-6	2.0E-3 4.2E-6	3.9E-2 2.7E-6	9.3E-4 2.5E-6

NOTES

- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2×10^{-3} ng/ μ m³, density of chrysotile: 2.55×10^{-3} ng/ μ m³, density of non-asbestos: 3.00×10^{-3} ng/ μ m³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
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RJ Lee Group Job No: LLH901997-25
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/05/2020

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos 5 μm

Client Sample Number	RJLG Sample Number	-----Structures 5 μm-----				-----Weight Percent----- Structures 5 μm Analytical Sensitivity			
		Chry	Amph	Cleavage	Non-Asbestos	Chry	Asb	Cleavage Fragment	Non-Asbestos
1	3158163	0	1	2	0	< 3.3E-5 3.3E-5	2.0E-3 4.2E-5	3.9E-2 2.7E-5	< 2.5E-5 2.5E-5

NOTES

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- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2 * 10⁻³ ng/ μ m³, density of chrysotile: 2.55 * 10⁻³ ng/ μ m³, density of non-asbestos: 3.00 * 10⁻³ ng/ μ m³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
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RJ Lee Group Job No: LLH901997-25
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/05/2020

Client Sample Number	RJLG Sample Number	Material Used (gm)	Area Analyzed Total (mm ²)	Area Analyzed 5 μm (mm ²)	Effective Filter Area (mm ²)	Dilution Factor
1	3158163	0.0003	0.30603	0.30603	1220	1.0

Authorized Signature: 
 Ashleigh Sload, Scientist

NOTES

- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2 * 10⁻³ ng/ μ m³, density of chrysotile: 2.55 * 10⁻³ ng/ μ m³, density of non-asbestos: 3.00 * 10⁻³ ng/ μ m³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
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RJL: LLH901997-25	3158163.HTA1	Microscope tem2000fx2	Grid Openings	10
1	K & L Gates	Magnification 21 KX	Asbestos	0.0
Wt: 0.0003 gm	Grid: 0.0087 mm ²	Acc. Voltage 120 KV	Asbestos >= 5µm	0.0
Dil: 1.0	Filter Size: 47 mm	Operator: Jon Swope	Nonasbestos	1.0
HQ45493		Cv = 0	Nonasbestos >= 5µm	0.0
			% Wt of largest asbestos structure	%

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1				NSD							
2				NSD							
3	1	2.1	0.25	Non-Asbestos		MgAlSiFe	15790D	Image1	X		
4				NSD							
5				NSD							
6				NSD							
7				NSD							
8				NSD							
9				NSD							
10				NSD							

10% Particulate

Analyst's Comments: N/A

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 8/3/2020 1:31:50 PM approve by Jon Swope

Final Review: 8/5/20 11:25 AM approve by Ashleigh Sload

RJL: LLH901997-25	3158163.HTA1	Microscope tem2000fx2	Grid Openings	25
1	K & L Gates	Magnification 10 KX	Asbestos	1.0
Wt: 0.0003 gm	Grid: 0.0087 mm ²	Acc. Voltage 120 KV	Nonasbestos	2.0
Dil: 1.0	Filter Size: 47 mm	Operator: Jon Swope	% Wt of largest asbestos structure	%
HQ45493		Cv = 0.038		

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1				NSD							
2				NSD							
3				NSD							
4				NSD							
5	1	5.7	0.6	Amphibole		MgSiCaFe15791D		Image1	Diff1	Acti	Cle
6				NSD							
7				NSD							
8				NSD							
9				NSD							
10	1	7.2	0.25	Amphibole	B	MgSiCaFe		Image2	X	Acti	Asb
11				NSD							
12	1	8.1	1.2	Amphibole		MgSiCaFe			X	Acti	Cle
13				NSD							
14				NSD							
15				NSD							
16				NSD							
17				NSD							
18				NSD							
19				NSD							
20				NSD							
21				NSD							
22				NSD							
23				NSD							
24				NSD							
25				NSD							

10% Particulate

Analyst's Comments: N/A

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 8/3/2020 1:49:41 PM approve by Jon Swope

Final Review: 8/5/20 11:25 AM approve by Ashleigh Sload

Final Laboratory Report

TEM Bulk Protocol

Attention: David Raphael
K & L Gates
17 North Second Street
Harrisburg, PA 17101
US

Report Date: 08/05/2020
Sample Receipt Date:
RJ Lee Group Job No.: LLH901997-25
Authorization/P.O. No.:
Samples Received: 1
Client Job No.:

Method: ISO 22262-2

TABLE 1 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos

Client Sample Number	RJLG Sample Number	<u>Total Structures</u>				-----Weight Percent----- <u>Total Structures</u> Analytical Sensitivity			
		Chry	Amph	Cleavage	Non Asbestos	Chry	Amph Asb	Amph Cleavage Fragment	Non Asbestos
1	3158163	0	1	2	1	< 3.3E-6 3.3E-6	1.3E-3 2.7E-6	3.9E-2 2.7E-6	9.3E-4 2.5E-6

NOTES

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4. Density of amphibole: 3.2×10^{-3} ng/ μ m³, density of chrysotile: 2.55×10^{-3} ng/ μ m³, density of non-asbestos: 3.00×10^{-3} ng/ μ m³.
5. Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
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RJ Lee Group Job No: LLH901997-25
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/05/2020

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos 5 μm

Client Sample Number	RJLG Sample Number	-----Structures 5 μm-----				-----Weight Percent----- Structures 5 μm Analytical Sensitivity			
		Chry	Amph	Cleavage	Non-Asbestos	Amphibole			
						Chry	Asb	Cleavage Fragment	Non-Asbestos
1	3158163	0	1	2	0	<u>< 3.3E-5</u> 3.3E-5	<u>1.3E-3</u> 2.7E-5	<u>3.9E-2</u> 2.7E-5	<u>< 2.5E-5</u> 2.5E-5

NOTES

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- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2 * 10⁻³ ng/ μ m³, density of chrysotile: 2.55 * 10⁻³ ng/ μ m³, density of non-asbestos: 3.00 * 10⁻³ ng/ μ m³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
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RJ Lee Group Job No: LLH901997-25
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/05/2020

Client Sample Number	RJLG Sample Number	Material Used (gm)	Area Analyzed Total (mm ²)	Area Analyzed 5 μm (mm ²)	Effective Filter Area (mm ²)	Dilution Factor
1	3158163	0.0003	0.30603	0.30603	1220	1.0

Authorized Signature: 
 Ashleigh Sload, Scientist

NOTES

- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2 * 10⁻³ ng/ μ m³, density of chrysotile: 2.55 * 10⁻³ ng/ μ m³, density of non-asbestos: 3.00 * 10⁻³ ng/ μ m³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
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RJ Lee Group, Inc
LLH901997-25
3158163.HTA1

K & L Gates
1

03-Aug-20

Air volume:

Area of collection filter:

Volume flowrate:

Level of analysis (chrysotile):

NA

Level of analysis (amphibole):

AZQ

0

Magnification used for structure counting:

Aspect ratio for fibre definition:

3:1

Mean dimension of grid openings:

0.0087436

Initials of analyst:

JS

Number of grid openings examined:

35

Analytical sensitivity:

Number of primary asbestos structures:

3

Number of asbestos structures counted:

3

Number of asbestos structures >5 µm:

3

Number of fibres and bundles > 5 µm:

3

Number of PCM equivalent asbestos structures:

3

Number of PCM equivalent asbestos fibres:

3

TEM asbestos structure count					
Report Number:	LLH901997-25				
Sample Number:	3158163.HTA1		Sample Weight:	0.0003	
Sample Description:	1		Filter area (mm ²):	1220	
			Magnification:	10/20 KX	
			Grid opening dimension (mm ²)	0.0087436	
Preparation date:	06/25/20	By:	Mk		
Analysis date:	08/3/20	By:	JS	Level of analysis (chrysotile)	NA
Computer entry date:	08/9/20	By:	MMK	Level of analysis (amphibole)	AZQ

Grid	Grid Opening	Structures		Identification	Structure type	Length (µm)	Width (µm)	Fibre Type	Comments
		primary	total						
1	H1			No Fibres					
	H3			No Fibres					
	H5			NAM		2.1	0.25		
	H7			No Fibres					
	J7			No Fibres					
	B1			No Fibres					
	B3			No Fibres					
	B5			No Fibres					
	B7			No Fibres					
	D7		1	1	AZQ	F	5.7	0.6	Actinolite
	D5				No Fibres				
	D3				No Fibres				
	D1				No Fibres				
	E2				No Fibres				
F1		2	2	ADX	F	7.2	0.25	Actinolite	
F3				No Fibres					
F7		3	3	ADX	F	8.1	1.2	Actinolite	
G6				No Fibres					
2	B1			No Fibres					
	B3			No Fibres					
	B5			No Fibres					
	B7			No Fibres					
	B9			No Fibres					
	D9			No Fibres					
	D7			No Fibres					
	D5			No Fibres					
	D3			No Fibres					
	D1			No Fibres					
F2				No Fibres					
F4				No Fibres					
H2				No Fibres					
H4				No Fibres					
H6				No Fibres					
H8				No Fibres					
J8				No Fibres					

Final Laboratory Report

TEM Bulk Protocol

Attention: David Raphael
K & L Gates
17 North Second Street
Harrisburg, PA 17101
US

Report Date: 08/12/2020
Sample Receipt Date:
RJ Lee Group Job No.: LLH901997-25
Authorization/P.O. No.:
Samples Received: 1
Client Job No.:

Method: EPA/R-93/600/116

TABLE 1 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos

Client Sample Number	RJLG Sample Number	<u>Total Structures</u>				-----Weight Percent----- <u>Total Structures</u> Analytical Sensitivity			
		Chry	Amph	Cleavage	Non Asbestos	Chry	Amph Asb	Amph Cleavage Fragment	Non Asbestos
2	3158164	0	0	1	3	< 3.3E-6 3.3E-6	< 4.2E-6 4.2E-6	8.8E-5 2.7E-6	4.7E-1 2.5E-6

NOTES

1. "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
2. Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
3. If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
4. Density of amphibole: 3.2×10^{-3} ng/ μ m³, density of chrysotile: 2.55×10^{-3} ng/ μ m³, density of non-asbestos: 3.00×10^{-3} ng/ μ m³.
5. Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
6. Samples will be held for 90 days and then disposed of per Federal regulations.
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RJ Lee Group Job No: LLH901997-25
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/12/2020

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos 5 μm

Client Sample Number	RJLG Sample Number	-----Structures 5 μm-----				-----Weight Percent----- Structures 5 μm Analytical Sensitivity Amphibole			
		Chry	Amph	Cleavage	Non-Asbestos	Chry	Asb	Cleavage Fragment	Non-Asbestos
2	3158164	0	0	0	2	<u>< 3.3E-5</u> 3.3E-5	<u>< 4.2E-5</u> 4.2E-5	<u>< 2.7E-5</u> 2.7E-5	<u>4.7E-1</u> 2.5E-5

NOTES

- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2×10^{-3} ng/μm³, density of chrysotile: 2.55×10^{-3} ng/μm³, density of non-asbestos: 3.00×10^{-3} ng/μm³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
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RJ Lee Group Job No: LLH901997-25
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/12/2020

Client Sample Number	RJLG Sample Number	Material Used (gm)	Area Analyzed Total (mm ²)	Area Analyzed 5 μm (mm ²)	Effective Filter Area (mm ²)	Dilution Factor
2	3158164	0.0003	0.30603	0.30603	1220	1.0

Authorized Signature: 
 Ashleigh Sload, Scientist

NOTES

- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
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- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
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RJ Lee Group, Inc.
TEM Count Sheet

RJL: LLH901997-25	3158164.HTA1	Microscope tem2000fx2	Grid Openings	10
2	K & L Gates	Magnification 21 KX	Asbestos	0.0
Wt: 0.0003 gm	Grid: 0.0087 mm ²	Acc. Voltage 120 KV	Asbestos >= 5µm	0.0
Dil: 1.0	Filter Size: 47 mm	Operator: Jacquelyn Mershon	Nonasbestos	4.0
HQ45493		Cv = 0	Nonasbestos >= 5µm structure	2.0
			% Wt of largest asbestos	%

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1				NSD							
2	1	11	1.1	Non-Asbestos		MgSiFe	15857D	Image1	Diff1		
3				NSD							
4	1	1.25	0.1	Amphibole		MgSiCaFe	15858D		X	Acti	Cle
5				NSD							
6				NSD							
7				NSD							
8				NSD							
9	1	1.25	0.2	Non-Asbestos		MgSiCaFe			Diff2 Diff3		CPX
10	1	9	2.5	Non-Asbestos		MgAlSiCaFe			X		OPX

7% Particulate

Analyst's Comments: N/A

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 8/3/2020 2:06:17 PM approve by Jacquelyn Mershon

RJL: LLH901997-25	3158164.HTA1	Microscope tem2000fx1	Grid Openings	25
2	K & L Gates	Magnification 10 KX	Asbestos	0.0
Wt: 0.0003 gm	Grid: 0.0087 mm ²	Acc. Voltage 120 KV	Nonasbestos	0.0
Dil: 1.0	Filter Size: 47 mm	Operator: Jacquelyn Mershon	% Wt of largest asbestos	%
HQ45493		Cv = 0	structure	

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1				NSD							
2				NSD							
3				NSD							
4				NSD							
5				NSD							
6				NSD							
7				NSD							
8				NSD							
9				NSD							
10				NSD							
11				NSD							
12				NSD							
13				NSD							
14				NSD							
15				NSD							
16				NSD							
17				NSD							
18				NSD							
19				NSD							
20				NSD							
21				NSD							
22				NSD							
23				NSD							
24				NSD							
25				NSD							

7% Particulate

Analyst's Comments: N/A

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 8/4/2020 6:46:03 AM approve by Jacquelyn Mershon

Final Review: 8/12/20 3:25 PM approve by Ashleigh Sload

Final Laboratory Report

TEM Bulk Protocol

Attention: David Raphael
K & L Gates
17 North Second Street
Harrisburg, PA 17101
US

Report Date: 08/12/2020
Sample Receipt Date:
RJ Lee Group Job No.: LLH901997-25
Authorization/P.O. No.:
Samples Received: 1
Client Job No.:

Method: ISO 22262-2

TABLE 1 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos

Client Sample Number	RJLG Sample Number	<u>Total Structures</u>				-----Weight Percent----- <u>Total Structures</u> Analytical Sensitivity			
		Chry	Amph	Cleavage	Non Asbestos	Chry	Amph Asb	Amph Cleavage Fragment	Non Asbestos
2	3158164	0	0	1	3	< 3.3E-6 3.3E-6	< 2.7E-6 2.7E-6	8.8E-5 2.7E-6	4.7E-1 2.5E-6

NOTES

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RJ Lee Group Job No: LLH901997-25
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/12/2020

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos 5 μm

Client Sample Number	RJLG Sample Number	-----Structures 5 μm-----				-----Weight Percent----- Structures 5 μm Analytical Sensitivity			
		Chry	Amph	Cleavage	Non-Asbestos	Chry	Asb	Cleavage Fragment	Non-Asbestos
2	3158164	0	0	0	2	<u>< 3.3E-5</u> 3.3E-5	<u>< 2.7E-5</u> 2.7E-5	<u>< 2.7E-5</u> 2.7E-5	<u>4.7E-1</u> 2.5E-5

NOTES

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- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2 * 10⁻³ ng/ μ m³, density of chrysotile: 2.55 * 10⁻³ ng/ μ m³, density of non-asbestos: 3.00 * 10⁻³ ng/ μ m³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
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RJ Lee Group, Inc.

Final Laboratory Report (cont'd)

RJ Lee Group Job No: LLH901997-25
Client Job No/Name:

Client: K & L Gates
Report Date: 08/12/2020

Client Sample Number	RJLG Sample Number	Material Used (gm)	Area Analyzed Total (mm ²)	Area Analyzed 5 μm (mm ²)	Effective Filter Area (mm ²)	Dilution Factor
2	3158164	0.0003	0.30603	0.30603	1220	1.0

Authorized Signature: 
Ashleigh Sload, Scientist

NOTES

- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2×10^{-3} ng/μm³, density of chrysotile: 2.55×10^{-3} ng/μm³, density of non-asbestos: 3.00×10^{-3} ng/μm³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
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RJ Lee Group, Inc
LLH901997-25
3158164.HTA1

K & L Gates
2

03-Aug-20

Air volume:

Area of collection filter:

Volume flowrate:

Level of analysis (chrysotile):

NA

Level of analysis (amphibole):

AZQ

0

Magnification used for structure counting:

Aspect ratio for fibre definition:

3:1

Mean dimension of grid openings:

0.0087436

Initials of analyst:

JM

Number of grid openings examined:

35

Analytical sensitivity:

Number of primary asbestos structures:

1

Number of asbestos structures counted:

1

Number of asbestos structures >5 µm:

1

Number of fibres and bundles > 5 µm:

1

Number of PCM equivalent asbestos structures:

1

Number of PCM equivalent asbestos fibres:

1

TEM asbestos structure count					
Report Number:	LLH901997-25				
Sample Number:	3158164.HTA1		Sample Weight:	0.0003	
Sample Description:	2		Filter area (mm2):	1220	
			Magnification:	10/20 KX	
			Grid opening dimension (mm2)	0.0087436	
Preparation date:	06/25/20	By:	Mk		
Analysis date:	08/3/20	By:	JM	Level of analysis (chrysotile)	NA
Computer entry date:	08/9/20	By:	MMK	Level of analysis (amphibole)	AZQ

Grid	Grid Opening	Structures		Identification	Structure type	Length (µm)	Width (µm)	Fibre Type	Comments
		primary	total						
1	H1			No Fibres					
	H3			NAM		11	1.1		
	H5			No Fibres					
	H7	1	1	ADQ	F	11	1.1		
	H9			No Fibres					
	B2			No Fibres					
	B4			No Fibres					
	B6			No Fibres					
	B8			No Fibres					
	B10			No Fibres					
	D10			No Fibres					
	D8			No Fibres					
	D6			No Fibres					
	D4			No Fibres					
	D2			No Fibres					
	F1			No Fibres					
	2	F3			No Fibres				
F9				No Fibres					
A1				No Fibres					
A3				No Fibres					
A5				No Fibres					
A7				No Fibres					
A9				No Fibres					
C10				No Fibres					
C8				No Fibres					
C6				No Fibres					
C4				No Fibres					
C2				No Fibres					
E1				No Fibres					
E3				No Fibres					
G4			No Fibres						
G6			No Fibres						
H7			No Fibres						
G8			NAM		1.25	0.2	CPX		
G10			NAM		9	2.5	OPX		

Final Laboratory Report

TEM Bulk Protocol

Attention: David Raphael
K & L Gates
17 North Second Street
Harrisburg, PA 17101
US

Report Date: 08/05/2020
Sample Receipt Date: 06/03/2019
RJ Lee Group Job No.: LLH901997-25
Authorization/P.O. No.:
Samples Received: 1
Client Job No.:

Method: EPA/R-93/600/116

TABLE 1 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos

Client Sample Number	RJLG Sample Number	<u>Total Structures</u>				-----Weight Percent----- <u>Total Structures</u> Analytical Sensitivity			
		Chry	Amph	Cleavage	Non Asbestos	Chry	Amph Asb	Amph Cleavage Fragment	Non Asbestos
3	3158165	0	0	0	1	< 3.3E-6 3.3E-6	< 4.2E-6 4.2E-6	< 2.7E-6 2.7E-6	7.0E-4 2.5E-6

NOTES

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4. Density of amphibole: 3.2×10^{-3} ng/ μ m³, density of chrysotile: 2.55×10^{-3} ng/ μ m³, density of non-asbestos: 3.00×10^{-3} ng/ μ m³.
5. Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
6. Samples will be held for 90 days and then disposed of per Federal regulations.
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RJ Lee Group Job No: LLH901997-25
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/05/2020

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos 5 μm

Client Sample Number	RJLG Sample Number	-----Structures 5 μm-----				-----Weight Percent----- Structures 5 μm Analytical Sensitivity Amphibole			
		Chry	Amph	Cleavage	Non-Asbestos	Chry	Asb	Cleavage Fragment	Non-Asbestos
3	3158165	0	0	0	0	<u>< 3.3E-5</u> 3.3E-5	<u>< 4.2E-5</u> 4.2E-5	<u>< 2.7E-5</u> 2.7E-5	<u>< 2.5E-5</u> 2.5E-5

NOTES

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- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2 * 10⁻³ ng/ μ m³, density of chrysotile: 2.55 * 10⁻³ ng/ μ m³, density of non-asbestos: 3.00 * 10⁻³ ng/ μ m³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
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RJ Lee Group Job No: LLH901997-25
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/05/2020

Client Sample Number	RJLG Sample Number	Material Used (gm)	Area Analyzed Total (mm ²)	Area Analyzed 5 μm (mm ²)	Effective Filter Area (mm ²)	Dilution Factor
3	3158165	0.0003	0.30603	0.30603	1220	1.0

Authorized Signature: 
 Ashleigh Sload, Scientist

NOTES

- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
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RJ Lee Group, Inc.
TEM Count Sheet

RJL: LLH901997-25	3158165.HTA1	Microscope tem2000fx2	Grid Openings	10
3	K & L Gates	Magnification 21 KX	Asbestos	0.0
Wt: 0.0003 gm	Grid: 0.0087 mm ²	Acc. Voltage 120 KV	Asbestos >= 5µm	0.0
Dil: 1.0	Filter Size: 47 mm	Operator: Jon Swope	Nonasbestos	1.0
HQ45493		Cv = 0	Nonasbestos >= 5µm	0.0
			% Wt of largest asbestos structure	%

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1				NSD							
2				NSD							
3	1	2.1	0.22	Non-Asbestos		MgAlSiCaFe	45792D	Image1	Diff1 Diff2 Diff3	OPX	
4				NSD							
5				NSD							
6				NSD							
7				NSD							
8				NSD							
9				NSD							
10				NSD							

10% Particulate

Analyst's Comments: N/A

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 8/3/2020 2:57:16 PM approve by Jon Swope

Final Review: 8/5/20 12:09 PM approve by Ashleigh Sload

RJL: LLH901997-25	3158165.HTA1	Microscope tem2000fx2	Grid Openings	25
3	K & L Gates	Magnification 10 KX	Asbestos	0.0
Wt: 0.0003 gm	Grid: 0.0087 mm ²	Acc. Voltage 120 KV	Nonasbestos	0.0
Dil: 1.0	Filter Size: 47 mm	Operator: Jon Swope	% Wt of largest asbestos structure	%
HQ45493		Cv = 0		

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1				NSD							
2				NSD							
3				NSD							
4				NSD							
5				NSD							
6				NSD							
7				NSD							
8				NSD							
9				NSD							
10				NSD							
11				NSD							
12				NSD							
13				NSD							
14				NSD							
15				NSD							
16				NSD							
17				NSD							
18				NSD							
19				NSD							
20				NSD							
21				NSD							
22				NSD							
23				NSD							
24				NSD							
25				NSD							

10% Particulate

Analyst's Comments: N/A

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 8/3/2020 3:05:28 PM approve by Jon Swope

Final Review: 8/5/20 12:09 PM approve by Ashleigh Sload

Final Laboratory Report

TEM Bulk Protocol

Attention: David Raphael
K & L Gates
17 North Second Street
Harrisburg, PA 17101
US

Report Date: 08/05/2020
Sample Receipt Date: 06/03/2019
RJ Lee Group Job No.: LLH901997-25
Authorization/P.O. No.:
Samples Received: 1
Client Job No.:

Method: ISO 22262-2

TABLE 1 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos

Client Sample Number	RJLG Sample Number	<u>Total Structures</u>				-----Weight Percent----- <u>Total Structures</u> Analytical Sensitivity			
		Chry	Amph	Cleavage	Non Asbestos	Chry	Amph Asb	Amph Cleavage Fragment	Non Asbestos
3	3158165	0	0	0	1	< 3.3E-6 3.3E-6	< 2.7E-6 2.7E-6	< 2.7E-6 2.7E-6	7.0E-4 2.5E-6

NOTES

1. "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
2. Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
3. If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
4. Density of amphibole: 3.2×10^{-3} ng/ μ m³, density of chrysotile: 2.55×10^{-3} ng/ μ m³, density of non-asbestos: 3.00×10^{-3} ng/ μ m³.
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6. Samples will be held for 90 days and then disposed of per Federal regulations.
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RJ Lee Group Job No: LLH901997-25
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/05/2020

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos 5 μm

Client Sample Number	RJLG Sample Number	-----Structures 5 μm-----				-----Weight Percent----- Structures 5 μm Analytical Sensitivity			
		Chry	Amph	Cleavage	Non-Asbestos	Chry	Asb	Cleavage Fragment	Non-Asbestos
3	3158165	0	0	0	0	< 3.3E-5 3.3E-5	< 2.7E-5 2.7E-5	< 2.7E-5 2.7E-5	< 2.5E-5 2.5E-5

NOTES

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RJ Lee Group, Inc.

Final Laboratory Report (cont'd)

RJ Lee Group Job No: LLH901997-25
Client Job No/Name:

Client: K & L Gates
Report Date: 08/05/2020

Client Sample Number	RJLG Sample Number	Material Used (gm)	Area Analyzed Total (mm ²)	Area Analyzed 5 μm (mm ²)	Effective Filter Area (mm ²)	Dilution Factor
3	3158165	0.0003	0.30603	0.30603	1220	1.0

Authorized Signature: 
Ashleigh Sload, Scientist

NOTES

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- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2×10^{-3} ng/μm³, density of chrysotile: 2.55×10^{-3} ng/μm³, density of non-asbestos: 3.00×10^{-3} ng/μm³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
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RJ Lee Group, Inc
LLH901997-25
3158165.HTA1

K & L Gates
3

03-Aug-20

Air volume:

Area of collection filter:

Volume flowrate:

Level of analysis (chrysotile):

NA

Level of analysis (amphibole):

NA

0

Magnification used for structure counting:

Aspect ratio for fibre definition:

3:1

Mean dimension of grid openings:

0.0087436

Initials of analyst:

JS

Number of grid openings examined:

35

Analytical sensitivity:

Number of primary asbestos structures:

0

Number of asbestos structures counted:

0

Number of asbestos structures >5 µm:

0

Number of fibres and bundles > 5 µm:

0

Number of PCM equivalent asbestos structures:

0

Number of PCM equivalent asbestos fibres:

0

TEM asbestos structure count					
Report Number:	LLH901997-25				
Sample Number:	3158165.HTA1		Sample Weight:	0.0003	
Sample Description:	3		Filter area (mm2):	1220	
			Magnification:	10/20 KX	
			Grid opening dimension (mm2)	0.0087436	
Preparation date:	06/25/20	By:	Mk		
Analysis date:	08/3/20	By:	JS	Level of analysis (chrysotile)	NA
Computer entry date:	08/9/20	By:	MMK	Level of analysis (amphibole)	NA

Grid	Grid Opening	Structures		Identification	Structure type	Length (µm)	Width (µm)	Fibre Type	Comments
		primary	total						
1	H1			No Fibres					
	H3			No Fibres					
	H5			NAM		2.1	0.22	OPX	
	H7			No Fibres					
	H9			No Fibres					
	B1			No Fibres					
	B3			No Fibres					
	B5			No Fibres					
	B7			No Fibres					
	B9			No Fibres					
	D9			No Fibres					
	D7			No Fibres					
	D5			No Fibres					
	D3			No Fibres					
	D1			No Fibres					
	F1			No Fibres					
	F3			No Fibres					
	F7			No Fibres					
2	B1			No Fibres					
	B3			No Fibres					
	B5			No Fibres					
	B7			No Fibres					
	B9			No Fibres					
	D9			No Fibres					
	D7			No Fibres					
	D5			No Fibres					
	D3			No Fibres					
	D1			No Fibres					
	F1			No Fibres					
	F3			No Fibres					
	I1			No Fibres					
	I3			No Fibres					
	I5			No Fibres					
	I7			No Fibres					
	I9			No Fibres					

Final Laboratory Report

TEM Bulk Protocol

Attention: David Raphael
K & L Gates
17 North Second Street
Harrisburg, PA 17101
US

Report Date: 08/05/2020
Sample Receipt Date:
RJ Lee Group Job No.: LLH901997-25
Authorization/P.O. No.:
Samples Received: 1
Client Job No.:

Method: EPA/R-93/600/116

TABLE 1 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos

Client Sample Number	RJLG Sample Number	<u>Total Structures</u>				-----Weight Percent----- <u>Total Structures</u> Analytical Sensitivity			
		Chry	Amph	Cleavage	Non Asbestos	Chry	Amph Asb	Amph Cleavage Fragment	Non Asbestos
4	3158166	0	2	1	0	< 5.0E-6 5.0E-6	6.1E-3 6.3E-6	4.4E-3 4.0E-6	< 3.7E-6 3.7E-6

NOTES

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RJ Lee Group Job No: LLH901997-25
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/05/2020

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos 5 μm

Client Sample Number	RJLG Sample Number	-----Structures 5 μm-----				-----Weight Percent----- Structures 5 μm Analytical Sensitivity Amphibole			
		Chry	Amph	Cleavage	Non-Asbestos	Chry	Asb	Cleavage Fragment	Non-Asbestos
4	3158166	0	1	0	0	<u>< 5.0E-5</u> 5.0E-5	<u>6.0E-3</u> 6.3E-5	<u>< 4.0E-5</u> 4.0E-5	<u>< 3.7E-5</u> 3.7E-5

NOTES

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- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
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RJ Lee Group Job No: LLH901997-25
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/05/2020

Client Sample Number	RJLG Sample Number	Material Used (gm)	Area Analyzed Total (mm ²)	Area Analyzed 5 μm (mm ²)	Effective Filter Area (mm ²)	Dilution Factor
4	3158166	0.0002	0.30603	0.30603	1220	1.0

Authorized Signature: 
 Ashleigh Sload, Scientist

NOTES

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- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
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RJL: LLH901997-25	3158166.HTA1	Microscope tem2000fx2	Grid Openings	10
4	K & L Gates	Magnification 21 KX	Asbestos	2.0
Wt: 0.0002 gm	Grid: 0.0087 mm ²	Acc. Voltage 120 KV	Asbestos >= 5µm	1.0
Dil: 1.0	Filter Size: 47 mm	Operator: Jon Swope	Nonasbestos	1.0
HQ45493		Cv = 0.16	Nonasbestos >= 5µm	0.0
			% Wt of largest asbestos structure	%

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1	1	15.7	0.15	Amphibole	F	MgSiCaFe	15793D	Image1	Diff1	Acti	Asb
2				NSD							
3				NSD							
4				NSD							
5				NSD							
6	1	1.9	0.05	Amphibole	F	MgSiCaFe			X	Acti	Asb
7				NSD							
8	1	4.5	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
9				NSD							
10				NSD							

10% Particulate

Analyst's Comments: N/A

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 8/3/2020 3:21:50 PM approve by Jon Swope

Final Review: 8/5/20 12:23 PM approve by Ashleigh Sload

RJL: LLH901997-25	3158166.HTA1	Microscope tem2000fx2	Grid Openings	25
4	K & L Gates	Magnification 10 KX	Asbestos	0.0
Wt: 0.0002 gm	Grid: 0.0087 mm ²	Acc. Voltage 120 KV	Nonasbestos	0.0
Dil: 1.0	Filter Size: 47 mm	Operator: Jon Swope	% Wt of largest asbestos structure	%
HQ45493		Cv = 0		

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1				NSD							
2				NSD							
3				NSD							
4				NSD							
5				NSD							
6				NSD							
7				NSD							
8				NSD							
9				NSD							
10				NSD							
11				NSD							
12				NSD							
13				NSD							
14				NSD							
15				NSD							
16				NSD							
17				NSD							
18				NSD							
19				NSD							
20				NSD							
21				NSD							
22				NSD							
23				NSD							
24				NSD							
25				NSD							

10% Particulate

Analyst's Comments: N/A

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 8/3/2020 3:32:18 PM approve by Jon Swope

Final Review: 8/5/20 12:23 PM approve by Ashleigh Sload

Final Laboratory Report

TEM Bulk Protocol

Attention: David Raphael
K & L Gates
17 North Second Street
Harrisburg, PA 17101
US

Report Date: 08/05/2020
 Sample Receipt Date:
 RJ Lee Group Job No.: LLH901997-25
 Authorization/P.O. No.:
 Samples Received: 1
 Client Job No.:

Method: ISO 22262-2

TABLE 1 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos

Client Sample Number	RJLG Sample Number	<u>Total Structures</u>				-----Weight Percent----- <u>Total Structures</u> Analytical Sensitivity			
		Chry	Amph	Cleavage	Non Asbestos	Chry	Amph Asb	Amph Cleavage Fragment	Non Asbestos
4	3158166	0	2	1	0	< 5.0E-6 5.0E-6	3.9E-3 4.0E-6	4.4E-3 4.0E-6	< 3.7E-6 3.7E-6

NOTES

1. "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
2. Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
3. If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
4. Density of amphibole: 3.2×10^{-3} ng/ μ m³, density of chrysotile: 2.55×10^{-3} ng/ μ m³, density of non-asbestos: 3.00×10^{-3} ng/ μ m³.
5. Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
6. Samples will be held for 90 days and then disposed of per Federal regulations.
7. These results are submitted pursuant to RJ Lee Group'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 these results are used or interpreted.

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RJ Lee Group Job No: LLH901997-25
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/05/2020

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos 5 μm

Client Sample Number	RJLG Sample Number	-----Structures 5 μm-----				-----Weight Percent----- Structures 5 μm Analytical Sensitivity			
		Chry	Amph	Cleavage	Non-Asbestos	Amphibole			
						Chry	Asb	Cleavage Fragment	Non-Asbestos
4	3158166	0	1	0	0	<u>< 5.0E-5</u> 5.0E-5	<u>3.8E-3</u> 4.0E-5	<u>< 4.0E-5</u> 4.0E-5	<u>< 3.7E-5</u> 3.7E-5

NOTES

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- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2 * 10⁻³ ng/ μ m³, density of chrysotile: 2.55 * 10⁻³ ng/ μ m³, density of non-asbestos: 3.00 * 10⁻³ ng/ μ m³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
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RJ Lee Group, Inc.

RJ Lee Group Job No: LLH901997-25
Client Job No/Name:

Final Laboratory Report (cont'd)

Client: K & L Gates
Report Date: 08/05/2020

Client Sample Number	RJLG Sample Number	Material Used (gm)	Area Analyzed Total (mm ²)	Area Analyzed 5 μm (mm ²)	Effective Filter Area (mm ²)	Dilution Factor
4	3158166	0.0002	0.30603	0.30603	1220	1.0

Authorized Signature: 
Ashleigh Sload, Scientist

NOTES

- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
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- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
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RJ Lee Group, Inc
LLH901997-25
3158166.HTA1

K & L Gates
4

03-Aug-20

Air volume:

Area of collection filter:

Volume flowrate:

Level of analysis (chrysotile):

NA

Level of analysis (amphibole):

NA

0

Magnification used for structure counting:

Aspect ratio for fibre definition:

3:1

Mean dimension of grid openings:

0.0087436

Initials of analyst:

JS

Number of grid openings examined:

35

Analytical sensitivity:

Number of primary asbestos structures:

3

Number of asbestos structures counted:

3

Number of asbestos structures >5 µm:

1

Number of fibres and bundles > 5 µm:

1

Number of PCM equivalent asbestos structures:

0

Number of PCM equivalent asbestos fibres:

0

TEM asbestos structure count					
Report Number:	LLH901997-25				
Sample Number:	3158166.HTA1		Sample Weight:	0.0002	
Sample Description:	4		Filter area (mm ²):	1220	
			Magnification:	10/20 KX	
			Grid opening dimension (mm ²)	0.0087436	
Preparation date:	06/25/20	By:	Mk		
Analysis date:	08/3/20	By:	JS	Level of analysis (chrysotile)	NA
Computer entry date:	08/9/20	By:	MMK	Level of analysis (amphibole)	NA

Grid	Grid Opening	Structures		Identification	Structure type	Length (µm)	Width (µm)	Fibre Type	Comments
		primary	total						
1	I1	1	1	AZQ	F	15.7	0.15	Actinolite	
	I3			No Fibres					
	I5			No Fibres					
	I7			No Fibres					
	I9			No Fibres					
	B2			No Fibres					
	B4			No Fibres					
	B6			No Fibres					
	B8			No Fibres					
	B10			No Fibres					
	D9			No Fibres					
	D7			No Fibres					
	D5			No Fibres					
	D3			No Fibres					
	D1			No Fibres					
	F2			No Fibres					
	F4			No Fibres					
2	B1			No Fibres					
	B3			No Fibres					
	B5			No Fibres					
	B7			No Fibres					
	B9			No Fibres					
	D10			No Fibres					
	D8			No Fibres					
	D6			No Fibres					
	D4			No Fibres					
	D2			No Fibres					
	F1			No Fibres					
	F3			No Fibres					
	F7			No Fibres					
	G2	2	2	ADX	F	1.9	0.05	Actinolite	
	G4			No Fibres					
	G6	3	3	ADX	F	4.5	0.3	Actinolite	
	G8			No Fibres					
	G10			No Fibres					

Final Laboratory Report

TEM Bulk Protocol

Attention: David Raphael
K & L Gates
17 North Second Street
Harrisburg, PA 17101
US

Report Date: 08/05/2020
Sample Receipt Date:
RJ Lee Group Job No.: LLH901997-25
Authorization/P.O. No.:
Samples Received: 1
Client Job No.:

Method: EPA/R-93/600/116

TABLE 1 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos

Client Sample Number	RJLG Sample Number	Total Structures				-----Weight Percent----- Total Structures Analytical Sensitivity			
		Chry	Amph	Cleavage	Non Asbestos	Chry	Amph Asb	Amph Cleavage Fragment	Non Asbestos
5	3158167	0	0	3	0	< 5.0E-6 5.0E-6	< 6.3E-6 6.3E-6	3.6E-3 4.0E-6	< 3.7E-6 3.7E-6

NOTES

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- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2×10^{-3} ng/ μ m³, density of chrysotile: 2.55×10^{-3} ng/ μ m³, density of non-asbestos: 3.00×10^{-3} ng/ μ m³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
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RJ Lee Group Job No: LLH901997-25
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/05/2020

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos 5 μm

Client Sample Number	RJLG Sample Number	-----Structures 5 μm-----				-----Weight Percent----- Structures 5 μm Analytical Sensitivity			
		Chry	Amph	Cleavage	Non-Asbestos	Chry	Asb	Cleavage Fragment	Non-Asbestos
5	3158167	0	0	0	0	<u>< 5.0E-5</u> 5.0E-5	<u>< 6.3E-5</u> 6.3E-5	<u>< 4.0E-5</u> 4.0E-5	<u>< 3.7E-5</u> 3.7E-5

NOTES

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- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
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- Density of amphibole: 3.2×10^{-3} ng/μm³, density of chrysotile: 2.55×10^{-3} ng/μm³, density of non-asbestos: 3.00×10^{-3} ng/μm³.
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RJ Lee Group, Inc.

RJ Lee Group Job No: LLH901997-25
Client Job No/Name:

Final Laboratory Report (cont'd)

Client: K & L Gates
Report Date: 08/05/2020

Client Sample Number	RJLG Sample Number	Material Used (gm)	Area Analyzed Total (mm ²)	Area Analyzed 5 μm (mm ²)	Effective Filter Area (mm ²)	Dilution Factor
5	3158167	0.0002	0.30603	0.30603	1220	1.0

Authorized Signature: 
Ashleigh Sload, Scientist

NOTES

- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
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- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
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RJL: LLH901997-25	3158167.HTA1	Microscope tem2000fx2	Grid Openings	10
5	K & L Gates	Magnification 21 KX	Asbestos	0.0
Wt: 0.0002 gm	Grid: 0.0087 mm ²	Acc. Voltage 120 KV	Asbestos >= 5µm	0.0
Dil: 1.0	Filter Size: 47 mm	Operator: Jon Swope	Nonasbestos	3.0
HQ45493		Cv = 0	Nonasbestos >= 5µm	0.0
			% Wt of largest asbestos structure	%

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1				NSD							
2				NSD							
3				NSD							
4				NSD							
5				NSD							
6	1	1.5	0.3	Amphibole		MgSiCaFe15794D	Image1	Diff2	Acti	Cle	
6	2	1.8	0.3	Amphibole		MgSiCaFe		X	Acti	Cle	
7	1	1.05	0.18	Amphibole		MgSiCaFe		X	Acti	Cle	
8				NSD							
9				NSD							
10				NSD							

8% Particulate

Analyst's Comments: N/A

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 8/3/2020 3:45:00 PM approve by Jon Swope

Final Review: 8/5/20 1:01 PM approve by Ashleigh Sload

RJL: LLH901997-25	3158167.HTA1	Microscope tem2000fx2	Grid Openings	25
5	K & L Gates	Magnification 10 KX	Asbestos	0.0
Wt: 0.0002 gm	Grid: 0.0087 mm ²	Acc. Voltage 120 KV	Nonasbestos	0.0
Dil: 1.0	Filter Size: 47 mm	Operator: Jon Swope	% Wt of largest asbestos structure	%
HQ45493		Cv = 0		

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1				NSD							
2				NSD							
3				NSD							
4				NSD							
5				NSD							
6				NSD							
7				NSD							
8				NSD							
9				NSD							
10				NSD							
11				NSD							
12				NSD							
13				NSD							
14				NSD							
15				NSD							
16				NSD							
17				NSD							
18				NSD							
19				NSD							
20				NSD							
21				NSD							
22				NSD							
23				NSD							
24				NSD							
25				NSD							

8% Particulate

Analyst's Comments: N/A

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 8/3/2020 3:52:58 PM approve by Jon Swope

Final Review: 8/5/20 1:01 PM approve by Ashleigh Sload

Final Laboratory Report

TEM Bulk Protocol

Attention: David Raphael
K & L Gates
17 North Second Street
Harrisburg, PA 17101
US

Report Date: 08/05/2020
Sample Receipt Date:
RJ Lee Group Job No.: LLH901997-25
Authorization/P.O. No.:
Samples Received: 1
Client Job No.:

Method: ISO 22262-2

TABLE 1 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos

Client Sample Number	RJLG Sample Number	Total Structures				-----Weight Percent----- Total Structures Analytical Sensitivity			
		Chry	Amph	Cleavage	Non Asbestos	Chry	Amph Asb	Amph Cleavage Fragment	Non Asbestos
5	3158167	0	0	3	0	< 5.0E-6 5.0E-6	< 4.0E-6 4.0E-6	3.6E-3 4.0E-6	< 3.7E-6 3.7E-6

NOTES

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RJ Lee Group Job No: LLH901997-25
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/05/2020

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos 5 μm

Client Sample Number	RJLG Sample Number	-----Structures 5 μm-----				-----Weight Percent----- Structures 5 μm Analytical Sensitivity			
		Chry	Amph	Cleavage	Non-Asbestos	Chry	Asb	Cleavage Fragment	Non-Asbestos
5	3158167	0	0	0	0	<u>< 5.0E-5</u> 5.0E-5	<u>< 4.0E-5</u> 4.0E-5	<u>< 4.0E-5</u> 4.0E-5	<u>< 3.7E-5</u> 3.7E-5

NOTES

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- Density of amphibole: 3.2 * 10⁻³ ng/ μ m³, density of chrysotile: 2.55 * 10⁻³ ng/ μ m³, density of non-asbestos: 3.00 * 10⁻³ ng/ μ m³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
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RJ Lee Group, Inc.

RJ Lee Group Job No: LLH901997-25
Client Job No/Name:

Final Laboratory Report (cont'd)

Client: K & L Gates
Report Date: 08/05/2020

Client Sample Number	RJLG Sample Number	Material Used (gm)	Area Analyzed Total (mm ²)	Area Analyzed 5 μm (mm ²)	Effective Filter Area (mm ²)	Dilution Factor
5	3158167	0.0002	0.30603	0.30603	1220	1.0

Authorized Signature: 
Ashleigh Sload, Scientist

NOTES

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- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2×10^{-3} ng/μm³, density of chrysotile: 2.55×10^{-3} ng/μm³, density of non-asbestos: 3.00×10^{-3} ng/μm³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
- These results are submitted pursuant to RJ Lee Group'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 these results are used or interpreted.

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RJ Lee Group, Inc
LLH901997-25
3158167.HTA1

K & L Gates
5

03-Aug-20

Air volume:

Area of collection filter:

Volume flowrate:

Level of analysis (chrysotile):

NA

Level of analysis (amphibole):

NA

0

Magnification used for structure counting:

Aspect ratio for fibre definition:

3:1

Mean dimension of grid openings:

0.0087436

Initials of analyst:

JS

Number of grid openings examined:

35

Analytical sensitivity:

Number of primary asbestos structures:

3

Number of asbestos structures counted:

3

Number of asbestos structures >5 µm:

0

Number of fibres and bundles > 5 µm:

0

Number of PCM equivalent asbestos structures:

0

Number of PCM equivalent asbestos fibres:

0

TEM asbestos structure count					
Report Number:	LLH901997-25				
Sample Number:	3158167.HTA1		Sample Weight:	0.0002	
Sample Description:	5		Filter area (mm2):	1220	
			Magnification:	10/20 KX	
			Grid opening dimension (mm2)	0.0087436	
Preparation date:	06/25/20	By:	Mk		
Analysis date:	08/3/20	By:	JS	Level of analysis (chrysotile)	NA
Computer entry date:	08/9/20	By:	MMK	Level of analysis (amphibole)	NA

Grid	Grid Opening	Structures		Identification	Structure type	Length (µm)	Width (µm)	Fibre Type	Comments
		primary	total						
1	H1								
	H3								
	H5								
	H7								
	H9								
	A1								
	A3								
	B5								
	B7								
	C9								
	D7								
	D5								
	D3								
	D1								
	F2								
	F4								
	F7								
	E9								
2	B1								
	B3								
	B5								
	B7								
	B9								
	D10								
	D8								
	D6								
	D4								
	D2								
	F1								
	F3								
	G1	1	1	AZQ	F	1.5	0.3	Actinolite	
		2	2	ADX	F	1.8	0.3	Actinolite	
	G3	3	3	ADX	F	1.05	0.18	Actinolite	
	G5								
	G7								
	G9								

Final Laboratory Report

TEM Bulk Protocol

Attention: David Raphael
K & L Gates
17 North Second Street
Harrisburg, PA 17101
US

Report Date: 08/05/2020
Sample Receipt Date:
RJ Lee Group Job No.: LLH901997-25
Authorization/P.O. No.:
Samples Received: 1
Client Job No.:

Method: EPA/R-93/600/116

TABLE 1 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos

Client Sample Number	RJLG Sample Number	Total Structures				-----Weight Percent----- Total Structures Analytical Sensitivity			
		Chry	Amph	Cleavage	Non Asbestos	Chry	Amph Asb	Amph Cleavage Fragment	Non Asbestos
6	3158168	0	0	2	6	< 2.5E-6 2.5E-6	< 3.1E-6 3.1E-6	1.3E-2 2.0E-6	5.6E-3 1.9E-6

NOTES

- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2×10^{-3} ng/ μ m³, density of chrysotile: 2.55×10^{-3} ng/ μ m³, density of non-asbestos: 3.00×10^{-3} ng/ μ m³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
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RJ Lee Group Job No: LLH901997-25
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/05/2020

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos 5 μm

Client Sample Number	RJLG Sample Number	-----Structures 5 μm-----				-----Weight Percent----- Structures 5 μm Analytical Sensitivity Amphibole			
		Chry	Amph	Cleavage	Non-Asbestos	Chry	Asb	Cleavage Fragment	Non-Asbestos
6	3158168	0	0	1	0	<u>< 2.5E-5</u> 2.5E-5	<u>< 3.1E-5</u> 3.1E-5	<u>1.3E-2</u> 2.0E-5	<u>< 1.9E-5</u> 1.9E-5

NOTES

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- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2 * 10⁻³ ng/ μ m³, density of chrysotile: 2.55 * 10⁻³ ng/ μ m³, density of non-asbestos: 3.00 * 10⁻³ ng/ μ m³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
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RJ Lee Group, Inc.

RJ Lee Group Job No: LLH901997-25
Client Job No/Name:

Final Laboratory Report (cont'd)

Client: K & L Gates
Report Date: 08/05/2020

Client Sample Number	RJLG Sample Number	Material Used (gm)	Area Analyzed Total (mm ²)	Area Analyzed 5 μm (mm ²)	Effective Filter Area (mm ²)	Dilution Factor
6	3158168	0.0004	0.30603	0.30603	1220	1.0

Authorized Signature: 
Ashleigh Sload, Scientist

NOTES

- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2×10^{-3} ng/μm³, density of chrysotile: 2.55×10^{-3} ng/μm³, density of non-asbestos: 3.00×10^{-3} ng/μm³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
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RJL: LLH901997-25	3158168.HTA1	Microscope tem2000fx2	Grid Openings	10
6	K & L Gates	Magnification 21 KX	Asbestos	0.0
Wt: 0.0004 gm	Grid: 0.0087 mm ²	Acc. Voltage 120 KV	Asbestos >= 5µm	0.0
Dil: 1.0	Filter Size: 47 mm	Operator: Jon Swope	Nonasbestos	7.0
HQ45493		Cv = 0	Nonasbestos >= 5µm	0.0
			% Wt of largest asbestos structure	%

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1	1	1.1	0.12	Non-Asbestos		MgSiFeCaAl	15795D	Image1	Diff1 Diff2	OPX	
2	1	1.2	0.1	Non-Asbestos		MgAlSiCaFe	15796D	Image2	Diff3	CPX	
3	1	1.6	0.15	Amphibole		MgSiCaFeAl	15797D	Image3	Diff4	Acti	Cle
4	1	1.65	0.25	Non-Asbestos		MgSiFeAlCa			X	OPX	
5	1	2.4	0.25	Non-Asbestos		MgSiFe	15798D	Image4	Diff5	OPX	
6				NSD							
7	1	4.3	0.4	Non-Asbestos		MgSiFeCaAl			X	OPX	
8				NSD							
9	1	1.65	0.3	Non-Asbestos		MgAlSiCaFe			X	CPX	
10				NSD							

10% Particulate

Analyst's Comments: N/A

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 8/4/2020 9:08:26 AM approve by Jon Swope

Final Review: 8/5/20 1:45 PM approve by Ashleigh Sload

RJL: LLH901997-25	3158168.HTA1	Microscope tem2000fx2	Grid Openings	25
6	K & L Gates	Magnification 10 KX	Asbestos	0.0
Wt: 0.0004 gm	Grid: 0.0087 mm ²	Acc. Voltage 120 KV	Nonasbestos	1.0
Dil: 1.0	Filter Size: 47 mm	Operator: Jon Swope	% Wt of largest asbestos structure	%
HQ45493		Cv = 0		

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1				NSD							
2				NSD							
3				NSD							
4				NSD							
5				NSD							
6				NSD							
7				NSD							
8				NSD							
9	1	6.5	0.95	Amphibole		MgSiCaFeAl	15799D	Image1	Diff1	Acti	Cle
10				NSD							
11				NSD							
12				NSD							
13				NSD							
14				NSD							
15				NSD							
16				NSD							
17				NSD							
18				NSD							
19				NSD							
20				NSD							
21				NSD							
22				NSD							
23				NSD							
24				NSD							
25				NSD							

10% Particulate

Analyst's Comments: N/A

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 8/4/2020 9:44:28 AM approve by Jon Swope

Final Review: 8/5/20 1:45 PM approve by Ashleigh Sload

Final Laboratory Report

TEM Bulk Protocol

Attention: David Raphael
K & L Gates
17 North Second Street
Harrisburg, PA 17101
US

Report Date: 08/05/2020
Sample Receipt Date:
RJ Lee Group Job No.: LLH901997-25
Authorization/P.O. No.:
Samples Received: 1
Client Job No.:

Method: ISO 22262-2

TABLE 1 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos

Client Sample Number	RJLG Sample Number	<u>Total Structures</u>				-----Weight Percent----- <u>Total Structures</u> Analytical Sensitivity			
		Chry	Amph	Cleavage	Non Asbestos	Chry	Amph Asb	Amph Cleavage Fragment	Non Asbestos
6	3158168	0	0	2	6	<u>< 2.5E-6</u> 2.5E-6	<u>< 2.0E-6</u> 2.0E-6	<u>1.3E-2</u> 2.0E-6	<u>5.6E-3</u> 1.9E-6

NOTES

1. "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
2. Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
3. If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
4. Density of amphibole: 3.2×10^{-3} ng/ μ m³, density of chrysotile: 2.55×10^{-3} ng/ μ m³, density of non-asbestos: 3.00×10^{-3} ng/ μ m³.
5. Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
6. Samples will be held for 90 days and then disposed of per Federal regulations.
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RJ Lee Group Job No: LLH901997-25
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/05/2020

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos 5 μm

Client Sample Number	RJLG Sample Number	-----Structures 5 μm-----				-----Weight Percent----- Structures 5 μm Analytical Sensitivity Amphibole			
		Chry	Amph	Cleavage	Non-Asbestos	Chry	Asb	Cleavage Fragment	Non-Asbestos
6	3158168	0	0	1	0	<u>< 2.5E-5</u> 2.5E-5	<u>< 2.0E-5</u> 2.0E-5	<u>1.3E-2</u> 2.0E-5	<u>< 1.9E-5</u> 1.9E-5

NOTES

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- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2 * 10⁻³ ng/ μ m³, density of chrysotile: 2.55 * 10⁻³ ng/ μ m³, density of non-asbestos: 3.00 * 10⁻³ ng/ μ m³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
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RJ Lee Group, Inc.

RJ Lee Group Job No: LLH901997-25
Client Job No/Name:

Final Laboratory Report (cont'd)

Client: K & L Gates
Report Date: 08/05/2020

Client Sample Number	RJLG Sample Number	Material Used (gm)	Area Analyzed Total (mm ²)	Area Analyzed 5 μm (mm ²)	Effective Filter Area (mm ²)	Dilution Factor
6	3158168	0.0004	0.30603	0.30603	1220	1.0

Authorized Signature: 
Ashleigh Sload, Scientist

NOTES

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- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2×10^{-3} ng/μm³, density of chrysotile: 2.55×10^{-3} ng/μm³, density of non-asbestos: 3.00×10^{-3} ng/μm³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
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RJ Lee Group, Inc
LLH901997-25
3158168.HTA1

K & L Gates
6

04-Aug-20

Air volume:

Area of collection filter:

Volume flowrate:

Level of analysis (chrysotile):

NA

Level of analysis (amphibole):

NA

0

Magnification used for structure counting:

Aspect ratio for fibre definition:

3:1

Mean dimension of grid openings:

0.0087436

Initials of analyst:

JS

Number of grid openings examined:

35

Analytical sensitivity:

Number of primary asbestos structures:

1

Number of asbestos structures counted:

1

Number of asbestos structures >5 µm:

0

Number of fibres and bundles > 5 µm:

0

Number of PCM equivalent asbestos structures:

0

Number of PCM equivalent asbestos fibres:

0

TEM asbestos structure count					
Report Number:	LLH901997-25				
Sample Number:	3158168.HTA1			Sample Weight:	0.0004
Sample Description:	6			Filter area (mm ²):	1220
				Magnification:	10/20 KX
				Grid opening dimension (mm ²)	0.0087436
Preparation date:	06/25/20	By:	Mk		
Analysis date:	08/4/20	By:	JS	Level of analysis (chrysotile)	NA
Computer entry date:	08/9/20	By:	MMK	Level of analysis (amphibole)	NA

Grid	Grid Opening	Structures		Identification	Structure type	Length (µm)	Width (µm)	Fibre Type	Comments
		primary	total						
1	I1			NAM		1.1	0.12	OPX	
	I3			NAM		1.2	0.1	CPX	
	I5	1	1	AZQ	F	1.6	0.15	Actinolite	
	I7			NAM		1.65	0.25	OPX	
	I9			NAM		2.4	0.25	OPX	
	C1			No Fibres					
	C3			No Fibres					
	C5			No Fibres					
	C7			No Fibres					
	C9			No Fibres					
	E9			No Fibres					
	E7			No Fibres					
	E4			No Fibres					
		E2			AZQ		6.5	0.95	Actinolite
	G1			No Fibres					
	G3			No Fibres					
	G5			No Fibres					
	G7			No Fibres					
2	B1			No Fibres					
	B3			No Fibres					
	B5			No Fibres					
	B7			No Fibres					
	B9			No Fibres					
	D9			No Fibres					
	D7			No Fibres					
	D5			No Fibres					
	D3			No Fibres					
	D1			No Fibres					
	F1			No Fibres					
	F3			No Fibres					
	H1			No Fibres					
	H3			NAM		4.3	0.4	OPX	
H5			No Fibres						
J4			NAM		1.65	0.3	CPX		
J2			No Fibres						

Final Laboratory Report

TEM Bulk Protocol

Attention: David Raphael
K & L Gates
17 North Second Street
Harrisburg, PA 17101
US

Report Date: 08/12/2020
Sample Receipt Date:
RJ Lee Group Job No.: LLH901997-25
Authorization/P.O. No.:
Samples Received: 1
Client Job No.:

Method: EPA/R-93/600/116

TABLE 1 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos

Client Sample Number	RJLG Sample Number	Total Structures				-----Weight Percent----- Total Structures Analytical Sensitivity			
		Chry	Amph	Cleavage	Non Asbestos	Chry	Amph Asb	Amph Cleavage Fragment	Non Asbestos
7	3158169	0	0	3	2	< 5.0E-6 5.0E-6	< 6.3E-6 6.3E-6	9.3E-2 4.0E-6	3.6E-3 3.7E-6

NOTES

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- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
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RJ Lee Group Job No: LLH901997-25
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/12/2020

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos 5 µm

Client Sample Number	RJLG Sample Number	-----Structures 5 µm-----				-----Weight Percent----- Structures 5 µm Analytical Sensitivity Amphibole			
		Chry	Amph	Cleavage	Non-Asbestos	Chry	Asb	Cleavage Fragment	Non-Asbestos
7	3158169	0	0	2	0	<u>< 5.0E-5</u> 5.0E-5	<u>< 6.3E-5</u> 6.3E-5	<u>5.0E-2</u> 4.0E-5	<u>< 3.7E-5</u> 3.7E-5

NOTES

- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2×10^{-3} ng/µm³, density of chrysotile: 2.55×10^{-3} ng/µm³, density of non-asbestos: 3.00×10^{-3} ng/µm³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
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RJ Lee Group, Inc.

RJ Lee Group Job No: LLH901997-25
Client Job No/Name:

Final Laboratory Report (cont'd)

Client: K & L Gates
Report Date: 08/12/2020

Client Sample Number	RJLG Sample Number	Material Used (gm)	Area Analyzed Total (mm ²)	Area Analyzed 5 μm (mm ²)	Effective Filter Area (mm ²)	Dilution Factor
7	3158169	0.0002	0.30603	0.30603	1220	1.0

Authorized Signature:



Ashleigh Sload, Scientist

NOTES

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- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2×10^{-3} ng/μm³, density of chrysotile: 2.55×10^{-3} ng/μm³, density of non-asbestos: 3.00×10^{-3} ng/μm³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
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RJL: LLH901997-25	3158169.HTA1	Microscope tem2000fx1	Grid Openings	10
7	K & L Gates	Magnification 21 KX	Asbestos	0.0
Wt: 0.0002 gm	Grid: 0.0087 mm ²	Acc. Voltage 120 KV	Asbestos >= 5µm	0.0
Dil: 1.0	Filter Size: 47 mm	Operator: Jacquelyn Mershon	Nonasbestos	4.0
HQ45493		Cv = 0	Nonasbestos >= 5µm	1.0
			% Wt of largest asbestos structure	%

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1	1	2.76	0.12	Non-Asbestos		SiMgAlFeTi	16628C	Image1	X		
2	1	7.63	0.72	Amphibole		MgSiFeCaMn	16629C	Image2	Diff1	Grun	Cle
3				NSD							
4				NSD							
5				NSD							
6	1	1.5	0.45	Non-Asbestos		MgSiCaFe			X	CPX	
7				NSD							
8				NSD							
9				NSD							
10	1	4.68	0.92	Amphibole		SiCaMgFeAl	16631C	Image3	Diff2	Acti	Cle

10% Particulate

Analyst's Comments: N/A

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 8/3/2020 10:36:47 AM approve by Jacquelyn Mershon

RJL: LLH901997-25	3158169.HTA1	Microscope tem2000fx1	Grid Openings	25
7	K & L Gates	Magnification 10 KX	Asbestos	0.0
Wt: 0.0002 gm	Grid: 0.0087 mm ²	Acc. Voltage 120 KV	Nonasbestos	1.0
Dil: 1.0	Filter Size: 47 mm	Operator: Jacquelyn Mershon	% Wt of largest asbestos	%
HQ45493		Cv = 0	structure	

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1				NSD							
2				NSD							
3	1	8.55	0.5	Amphibole		MgSiCaFe16630C		Image1	Diff1	Acti	Cle
4				NSD							
5				NSD							
6				NSD							
7				NSD							
8				NSD							
9				NSD							
10				NSD							
11				NSD							
12				NSD							
13				NSD							
14				NSD							
15				NSD							
16				NSD							
17				NSD							
18				NSD							
19				NSD							
20				NSD							
21				NSD							
22				NSD							
23				NSD							
24				NSD							
25				NSD							

10% Particulate

Analyst's Comments: N/A

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 8/3/2020 10:12:41 AM approve by Jacquelyn Mershon

Final Review: 8/12/20 2:43 PM approve by Ashleigh Sload

Final Laboratory Report

TEM Bulk Protocol

Attention: David Raphael
K & L Gates
17 North Second Street
Harrisburg, PA 17101
US

Report Date: 08/12/2020
Sample Receipt Date:
RJ Lee Group Job No.: LLH901997-25
Authorization/P.O. No.:
Samples Received: 1
Client Job No.:

Method: ISO 22262-2

TABLE 1 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos

Client Sample Number	RJLG Sample Number	Total Structures				-----Weight Percent----- Total Structures Analytical Sensitivity			
		Chry	Amph	Cleavage	Non Asbestos	Chry	Amph Asb	Amph Cleavage Fragment	Non Asbestos
7	3158169	0	0	3	2	< 5.0E-6 5.0E-6	< 4.0E-6 4.0E-6	9.3E-2 4.0E-6	3.6E-3 3.7E-6

NOTES

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- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2×10^{-3} ng/ μ m³, density of chrysotile: 2.55×10^{-3} ng/ μ m³, density of non-asbestos: 3.00×10^{-3} ng/ μ m³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
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RJ Lee Group Job No: LLH901997-25
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/12/2020

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos 5 μm

Client Sample Number	RJLG Sample Number	-----Structures 5 μm-----				-----Weight Percent----- Structures 5 μm Analytical Sensitivity Amphibole			
		Chry	Amph	Cleavage	Non-Asbestos	Chry	Asb	Cleavage Fragment	Non-Asbestos
7	3158169	0	0	2	0	<u>< 5.0E-5</u> 5.0E-5	<u>< 4.0E-5</u> 4.0E-5	<u>5.0E-2</u> 4.0E-5	<u>< 3.7E-5</u> 3.7E-5

NOTES

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- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
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- Density of amphibole: 3.2×10^{-3} ng/μm³, density of chrysotile: 2.55×10^{-3} ng/μm³, density of non-asbestos: 3.00×10^{-3} ng/μm³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
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RJ Lee Group, Inc.

RJ Lee Group Job No: LLH901997-25
Client Job No/Name:

Final Laboratory Report (cont'd)

Client: K & L Gates
Report Date: 08/12/2020

Client Sample Number	RJLG Sample Number	Material Used (gm)	Area Analyzed Total (mm ²)	Area Analyzed 5 μm (mm ²)	Effective Filter Area (mm ²)	Dilution Factor
7	3158169	0.0002	0.30603	0.30603	1220	1.0

Authorized Signature: 
Ashleigh Sload, Scientist

NOTES

- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
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- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2×10^{-3} ng/μm³, density of chrysotile: 2.55×10^{-3} ng/μm³, density of non-asbestos: 3.00×10^{-3} ng/μm³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
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RJ Lee Group, Inc
LLH901997-25
3158169.HTA1

K & L Gates
7

03-Aug-20

Air volume:
Area of collection filter:
Volume flowrate:
Level of analysis (chrysotile): NA
Level of analysis (amphibole): NA 0
Magnification used for structure counting:
Aspect ratio for fibre definition: 3:1
Mean dimension of grid openings: 0.0087436
Initials of analyst: JM
Number of grid openings examined: 35
Analytical sensitivity:
Number of primary asbestos structures: 2
Number of asbestos structures counted: 2
Number of asbestos structures >5 µm: 2
Number of fibres and bundles > 5 µm: 2
Number of PCM equivalent asbestos structures: 2
Number of PCM equivalent asbestos fibres: 2

TEM asbestos structure count					
Report Number:	LLH901997-25				
Sample Number:	3158169.HTA1			Sample Weight:	0.0002
Sample Description:	7			Filter area (mm ²):	1220
				Magnification:	10/20 KX
				Grid opening dimension (mm ²)	0.0087436
Preparation date:	06/25/20	By:	Mk		
Analysis date:	08/3/20	By:	JM	Level of analysis (chrysotile)	NA
Computer entry date:	08/9/20	By:	MMK	Level of analysis (amphibole)	NA

Grid	Grid Opening	Structures		Identification	Structure type	Length (µm)	Width (µm)	Fibre Type	Comments
		primary	total						
1	I1			NAM		2.76	0.12		
	I3	1	1	AZQ	F	7.63	0.72	Grunerite	
	I5			No Fibres					
	I7			No Fibres					
	I9			No Fibres					
	A6			No Fibres					
	A8			No Fibres					
	A10	2	2	AZQ	F	8.55	0.5	Actinolite	
	C9			No Fibres					
	C7			No Fibres					
	C5			No Fibres					
	C3			No Fibres					
	E1			No Fibres					
	E3			AZQ					
	E9			No Fibres					
	G10			No Fibres					
	G8			No Fibres					
	G6			No Fibres					
2	B4			No Fibres					
	B6			No Fibres					
	A8			No Fibres					
	B10			No Fibres					
	D9			No Fibres					
	D7			No Fibres					
	D5			No Fibres					
	D3			No Fibres					
	F1			No Fibres					
	F3			No Fibres					
	F7			No Fibres					
	F9			No Fibres					
	H2			NAM		1.5	0.45	CPX	
	H4			No Fibres					
	H8			No Fibres					
	J6			No Fibres					
	J2			AZQ		4.68	0.92	Actinolite	Not tabulated; touching left grid bar

Final Laboratory Report

TEM Bulk Protocol

Attention: David Raphael
K & L Gates
17 North Second Street
Harrisburg, PA 17101
US

Report Date: 08/05/2020
Sample Receipt Date:
RJ Lee Group Job No.: LLH901997-25
Authorization/P.O. No.:
Samples Received: 1
Client Job No.:

Method: EPA/R-93/600/116

TABLE 1 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos

Client Sample Number	RJLG Sample Number	Total Structures				-----Weight Percent----- Total Structures Analytical Sensitivity			
		Chry	Amph	Cleavage	Non Asbestos	Chry	Amph Asb	Amph Cleavage Fragment	Non Asbestos
8	3158170	0	0	6	1	< 3.3E-6 3.3E-6	< 4.2E-6 4.2E-6	1.8E-1 2.7E-6	1.1E-2 2.5E-6

NOTES

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- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2×10^{-3} ng/ μ m³, density of chrysotile: 2.55×10^{-3} ng/ μ m³, density of non-asbestos: 3.00×10^{-3} ng/ μ m³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
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RJ Lee Group Job No: LLH901997-25
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/05/2020

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos 5 μm

Client Sample Number	RJLG Sample Number	-----Structures 5 μm-----				-----Weight Percent----- Structures 5 μm Analytical Sensitivity Amphibole			
		Chry	Amph	Cleavage	Non-Asbestos	Chry	Asb	Cleavage Fragment	Non-Asbestos
8	3158170	0	0	3	1	<u>< 3.3E-5</u> 3.3E-5	<u>< 4.2E-5</u> 4.2E-5	<u>1.7E-1</u> 2.7E-5	<u>1.1E-2</u> 2.5E-5

NOTES

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- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2 * 10⁻³ ng/ μ m³, density of chrysotile: 2.55 * 10⁻³ ng/ μ m³, density of non-asbestos: 3.00 * 10⁻³ ng/ μ m³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
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RJ Lee Group, Inc.

RJ Lee Group Job No: LLH901997-25
Client Job No/Name:

Final Laboratory Report (cont'd)

Client: K & L Gates
Report Date: 08/05/2020

Client Sample Number	RJLG Sample Number	Material Used (gm)	Area Analyzed Total (mm ²)	Area Analyzed 5 μm (mm ²)	Effective Filter Area (mm ²)	Dilution Factor
8	3158170	0.0003	0.30603	0.30603	1220	1.0

Authorized Signature: 
Ashleigh Sload, Scientist

NOTES

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- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2×10^{-3} ng/μm³, density of chrysotile: 2.55×10^{-3} ng/μm³, density of non-asbestos: 3.00×10^{-3} ng/μm³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
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RJL: LLH901997-25	3158170.HTA1	Microscope tem2000fx2	Grid Openings	10
8	K & L Gates	Magnification 21 KX	Asbestos	0.0
Wt: 0.0003 gm	Grid: 0.0087 mm ²	Acc. Voltage 120 KV	Asbestos >= 5µm	0.0
Dil: 1.0	Filter Size: 47 mm	Operator: Jon Swope	Nonasbestos	6.0
HQ45493		Cv = 0	Nonasbestos >= 5µm	3.0
			% Wt of largest asbestos structure	%

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1	1	15.3	1.2	Amphibole		MgSiCaFeAl	15782D	Image1	Diff1	Acti	Cle
2				NSD							
3				NSD							
4				NSD							
5				NSD							
6	1	3.1	0.4	Amphibole		MgSiCaFe			X	Acti	Cle
7				NSD							
8	1	3.2	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
8	2	5.4	0.5	Amphibole		MgSiCaFe			X	Acti	Cle
9				NSD							
10	1	5.1	0.4	Amphibole		MgSiCaFe			X	Acti	Cle
10	2	3.2	0.2	Amphibole		MgSiCaFe			X	Acti	Cle

8% Particulate

Analyst's Comments: N/A

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 8/3/2020 9:17:36 AM approve by Jon Swope

Final Review: 8/5/20 2:40 PM approve by Ashleigh Sload

RJL: LLH901997-25	3158170.HTA1	Microscope tem2000fx2	Grid Openings	25
8	K & L Gates	Magnification 10 KX	Asbestos	0.0
Wt: 0.0003 gm	Grid: 0.0087 mm ²	Acc. Voltage 120 KV	Nonasbestos	1.0
Dil: 1.0	Filter Size: 47 mm	Operator: Jon Swope	% Wt of largest asbestos structure	%
HQ45493		Cv = 0		

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1				NSD							
2				NSD							
3				NSD							
4				NSD							
5	1	7.9	0.7	Non-Asbestos		MgAlSiCaF#5783D		Image1	Diff1	CPX	
6				NSD							
7				NSD							
8				NSD							
9				NSD							
10				NSD							
11				NSD							
12				NSD							
13				NSD							
14				NSD							
15				NSD							
16				NSD							
17				NSD							
18				NSD							
19				NSD							
20				NSD							
21				NSD							
22				NSD							
23				NSD							
24				NSD							
25				NSD							

8% Particulate

Analyst's Comments: N/A

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 8/3/2020 10:23:20 AM approve by Jon Swope

Final Review: 8/5/20 2:40 PM approve by Ashleigh Sload

Final Laboratory Report

TEM Bulk Protocol

Attention: David Raphael
K & L Gates
17 North Second Street
Harrisburg, PA 17101
US

Report Date: 08/05/2020
Sample Receipt Date:
RJ Lee Group Job No.: LLH901997-25
Authorization/P.O. No.:
Samples Received: 1
Client Job No.:

Method: ISO 22262-2

TABLE 1 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos

Client Sample Number	RJLG Sample Number	Total Structures				-----Weight Percent----- Total Structures Analytical Sensitivity			
		Chry	Amph	Cleavage	Non Asbestos	Chry	Amph Asb	Amph Cleavage Fragment	Non Asbestos
8	3158170	0	0	6	1	< 3.3E-6 3.3E-6	< 2.7E-6 2.E-6	1.8E-1 2.7E-6	1.1E-2 2.5E-6

NOTES

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- Density of amphibole: 3.2×10^{-3} ng/ μ m³, density of chrysotile: 2.55×10^{-3} ng/ μ m³, density of non-asbestos: 3.00×10^{-3} ng/ μ m³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
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RJ Lee Group Job No: LLH901997-25
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/05/2020

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos 5 μm

Client Sample Number	RJLG Sample Number	-----Structures 5 μm-----				-----Weight Percent----- Structures 5 μm Analytical Sensitivity Amphibole			
		Chry	Amph	Cleavage	Non-Asbestos	Chry	Asb	Cleavage Fragment	Non-Asbestos
8	3158170	0	0	3	1	<u>< 3.3E-5</u> 3.3E-5	<u>< 2.7E-5</u> 2.7E-5	<u>1.7E-1</u> 2.7E-5	<u>1.1E-2</u> 2.5E-5

NOTES

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RJ Lee Group, Inc.

RJ Lee Group Job No: LLH901997-25
Client Job No/Name:

Final Laboratory Report (cont'd)

Client: K & L Gates
Report Date: 08/05/2020

Client Sample Number	RJLG Sample Number	Material Used (gm)	Area Analyzed Total (mm ²)	Area Analyzed 5 μm (mm ²)	Effective Filter Area (mm ²)	Dilution Factor
8	3158170	0.0003	0.30603	0.30603	1220	1.0

Authorized Signature: 
Ashleigh Sload, Scientist

NOTES

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RJ Lee Group, Inc
LLH901997-25
3158170.HTA1

K & L Gates
8

03-Aug-20

Air volume:

Area of collection filter:

Volume flowrate:

Level of analysis (chrysotile):

NA

Level of analysis (amphibole):

NA

0

Magnification used for structure counting:

Aspect ratio for fibre definition:

3:1

Mean dimension of grid openings:

0.0087436

Initials of analyst:

JS

Number of grid openings examined:

35

Analytical sensitivity:

Number of primary asbestos structures:

6

Number of asbestos structures counted:

6

Number of asbestos structures >5 µm:

3

Number of fibres and bundles > 5 µm:

3

Number of PCM equivalent asbestos structures:

3

Number of PCM equivalent asbestos fibres:

3

TEM asbestos structure count					
Report Number:	LLH901997-25				
Sample Number:	3158170.HTA1			Sample Weight:	0.0003
Sample Description:	8			Filter area (mm ²):	1220
				Magnification:	10/20 KX
				Grid opening dimension (mm ²)	0.0087436
Preparation date:	06/25/20	By:	Mk		
Analysis date:	08/3/20	By:	JS	Level of analysis (chrysotile)	NA
Computer entry date:	08/9/20	By:	MMK	Level of analysis (amphibole)	NA

Grid	Grid Opening	Structures		Identification	Structure type	Length (µm)	Width (µm)	Fibre Type	Comments
		primary	total						
1	H1	1	1	AZQ	F	15.3	1.2	Actinolite	
	H3			No Fibres					
	H5			No Fibres					
	H7			No Fibres					
	H9			No Fibres					
	B1			No Fibres					
	B3			No Fibres					
	B5			No Fibres					
	B7			No Fibres					
	B9			NAM		7.9	0.7	CPX	
	D9			No Fibres					
	D7			No Fibres					
	D5			No Fibres					
	D3			No Fibres					
	D1			No Fibres					
	F1			No Fibres					
	F3			No Fibres					
	F7			No Fibres					
2	B1			No Fibres					
	B3			No Fibres					
	B5			No Fibres					
	B7			No Fibres					
	B9			No Fibres					
	D9			No Fibres					
	D7			No Fibres					
	D5			No Fibres					
	D3			No Fibres					
	D1			No Fibres					
	F1			No Fibres					
	F3			No Fibres					
	I1	2	2	ADX	F	3.1	0.4	Actinolite	
	I3			No Fibres					
	I5	3	3	ADX	F	3.2	0.3	Actinolite	
		4	4	ADX	F	5.4	0.5	Actinolite	
	I7			No Fibres					
	I9	5	5	ADX	F	5.1	0.4	Actinolite	
		6	6	ADX	F	3.2	0.2	Actinolite	

Final Laboratory Report

TEM Bulk Protocol

Attention: David Raphael
K & L Gates
17 North Second Street
Harrisburg, PA 17101
US

Report Date: 08/05/2020
Sample Receipt Date:
RJ Lee Group Job No.: LLH901997-25
Authorization/P.O. No.:
Samples Received: 1
Client Job No.:

Method: EPA/R-93/600/116

TABLE 1 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos

Client Sample Number	RJLG Sample Number	Total Structures				-----Weight Percent----- Total Structures Analytical Sensitivity			
		Chry	Amph	Cleavage	Non Asbestos	Chry	Amph Asb	Amph Cleavage Fragment	Non Asbestos
9	3158171	0	4	0	1	< 3.3E-6 3.3E-6	1.7E-1 4.2E-6	< 2.7E-6 2.7E-6	7.4E-2 2.5E-6

NOTES

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RJ Lee Group Job No: LLH901997-25
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/05/2020

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos 5 μm

Client Sample Number	RJLG Sample Number	-----Structures 5 μm-----				-----Weight Percent----- Structures 5 μm Analytical Sensitivity			
		Chry	Amph	Cleavage	Non-Asbestos	Amphibole			
						Chry	Asb	Cleavage Fragment	Non-Asbestos
9	3158171	0	4	0	1	<u>< 3.3E-5</u> 3.3E-5	<u>1.7E-1</u> 4.2E-5	<u>< 2.7E-5</u> 2.7E-5	<u>7.4E-2</u> 2.5E-5

NOTES

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RJ Lee Group, Inc.

Final Laboratory Report (cont'd)

RJ Lee Group Job No: LLH901997-25
Client Job No/Name:

Client: K & L Gates
Report Date: 08/05/2020

Client Sample Number	RJLG Sample Number	Material Used (gm)	Area Analyzed Total (mm ²)	Area Analyzed 5 μm (mm ²)	Effective Filter Area (mm ²)	Dilution Factor
9	3158171	0.0003	0.30603	0.30603	1220	1.0

Authorized Signature: 
Ashleigh Sload, Scientist

NOTES

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RJL: LLH901997-25	3158171.HTA1	Microscope tem2000fx2	Grid Openings	10
9	K & L Gates	Magnification 21 KX	Asbestos	1.0
Wt: 0.0003 gm	Grid: 0.0087 mm ²	Acc. Voltage 120 KV	Asbestos >= 5µm	1.0
Dil: 1.0	Filter Size: 47 mm	Operator: Jon Swope	Nonasbestos	1.0
HQ45493		Cv = 0.09	Nonasbestos >= 5µm	1.0
			% Wt of largest asbestos structure	%

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1				NSD							
2				NSD							
3				NSD							
4	1	11.9	0.95	Non-Asbestos		NaMgAlSiCaFe	F5784D	Image1	Diff1		
4	2	9.7	0.2	Amphibole	F	MgSiCaFeAl	15785D	Image2	Diff2	Acti	Asb
5				NSD							
6				NSD							
7				NSD							
8				NSD							
9				NSD							
10				NSD							

8% Particulate

Analyst's Comments: N/A

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 8/3/2020 10:52:46 AM approve by Jon Swope

Final Review: 8/5/20 2:58 PM approve by Ashleigh Sload

RJL: LLH901997-25	3158171.HTA1	Microscope tem2000fx2	Grid Openings	25
9	K & L Gates	Magnification 10 KX	Asbestos	3.0
Wt: 0.0003 gm	Grid: 0.0087 mm ²	Acc. Voltage 120 KV	Nonasbestos	0.0
Dil: 1.0	Filter Size: 47 mm	Operator: Jon Swope	% Wt of largest asbestos structure	%
HQ45493		Cv = 0.106		

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1				NSD							
2				NSD							
3				NSD							
4				NSD							
5				NSD							
6				NSD							
7				NSD							
8				NSD							
9				NSD							
10				NSD							
11				NSD							
12				NSD							
13				NSD							
14				NSD							
15				NSD							
16	1	36.9	0.95	Amphibole	B	MgSiCaFe15786D	Image1	Diff1	Acti	Asb	
17				NSD							
18				NSD							
19				NSD							
20	1	9.4	0.3	Amphibole	F	MgSiCaFe		X	Acti	Asb	
21				NSD							
22				NSD							
23	1	12.6	0.5	Amphibole	F	MgSiCaFe		X	Acti	Asb	
24				NSD							
25				NSD							

8% Particulate

Analyst's Comments: N/A

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 8/3/2020 11:43:03 AM approve by Jon Swope

Final Review: 8/5/20 2:58 PM approve by Ashleigh Sload

Final Laboratory Report

TEM Bulk Protocol

Attention: David Raphael
K & L Gates
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Sample Receipt Date:
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Authorization/P.O. No.:
Samples Received: 1
Client Job No.:

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RJ Lee Group Job No: LLH901997-25
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/05/2020

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos 5 μm

Client Sample Number	RJLG Sample Number	-----Structures 5 μm-----				-----Weight Percent----- Structures 5 μm Analytical Sensitivity			
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RJ Lee Group, Inc.

RJ Lee Group Job No: LLH901997-25
Client Job No/Name:

Final Laboratory Report (cont'd)

Client: K & L Gates
Report Date: 08/05/2020

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Authorized Signature: 
Ashleigh Sload, Scientist

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RJ Lee Group, Inc
LLH901997-25
3158171.HTA1

K & L Gates
9

03-Aug-20

Air volume:
Area of collection filter:
Volume flowrate:
Level of analysis (chrysotile): NA
Level of analysis (amphibole): NA 0
Magnification used for structure counting:
Aspect ratio for fibre definition: 3:1
Mean dimension of grid openings: 0.0087436
Initials of analyst: JS
Number of grid openings examined: 35
Analytical sensitivity:
Number of primary asbestos structures: 4
Number of asbestos structures counted: 4
Number of asbestos structures >5 µm: 4
Number of fibres and bundles > 5 µm: 4
Number of PCM equivalent asbestos structures: 3
Number of PCM equivalent asbestos fibres: 2

TEM asbestos structure count					
Report Number:	LLH901997-25			Sample Weight:	0.0003
Sample Number:	3158171.HTA1			Filter area (mm ²):	1220
Sample Description:	9			Magnification:	10/20 KX
				Grid opening dimension (mm ²):	0.0087436
Preparation date:	06/25/20	By:	Mk		
Analysis date:	08/3/20	By:	JS	Level of analysis (chrysotile)	NA
Computer entry date:	08/9/20	By:	MMK	Level of analysis (amphibole)	NA

Grid	Grid Opening	Structures		Identification	Structure type	Length (µm)	Width (µm)	Fibre Type	Comments	
		primary	total							
1	H1			No Fibres						
	H3			No Fibres						
	H5			No Fibres						
	H7			NAM		11.9	0.95			
			1	1	AZQ	F	9.7	0.2	Actinolite	
	H9				No Fibres					
	B1				No Fibres					
	B3				No Fibres					
	B5				No Fibres					
	B7				No Fibres					
	B9				No Fibres					
	D9				No Fibres					
	D7				No Fibres					
	D5				No Fibres					
	D3				No Fibres					
	D1				No Fibres					
	F1				No Fibres					
F3				No Fibres						
F7				No Fibres						
2	B1			No Fibres						
	B3			No Fibres						
	B5	2	2	AZQ	B	36.9	0.95	Actinolite		
	B7			No Fibres						
	B9			No Fibres						
	D9			No Fibres						
	D7	3	3	ADX	F	9.4	0.3	Actinolite		
	D5			No Fibres						
	D3			No Fibres						
	D1	4	4	ADX	F	12.6	0.5	Actinolite		
	F1			No Fibres						
F3			No Fibres							
G1			No Fibres							
G3			No Fibres							
G5			No Fibres							
I3				No Fibres						
I1				No Fibres						

Final Laboratory Report

TEM Bulk Protocol

Attention: David Raphael
K & L Gates
17 North Second Street
Harrisburg, PA 17101
US

Report Date: 08/05/2020
Sample Receipt Date:
RJ Lee Group Job No.: LLH901997-25
Authorization/P.O. No.:
Samples Received: 1
Client Job No.:

Method: EPA/R-93/600/116

TABLE 1 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos

Client Sample Number	RJLG Sample Number	Total Structures				-----Weight Percent----- Total Structures Analytical Sensitivity			
		Chry	Amph	Cleavage	Non Asbestos	Chry	Amph Asb	Amph Cleavage Fragment	Non Asbestos
10	3158172	0	0	0	0	< 3.3E-6 3.3E-6	< 4.2E-6 4.2E-6	< 2.7E-6 2.7E-6	< 2.5E-6 2.5E-6

NOTES

- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2×10^{-3} ng/ μ m³, density of chrysotile: 2.55×10^{-3} ng/ μ m³, density of non-asbestos: 3.00×10^{-3} ng/ μ m³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
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RJ Lee Group Job No: LLH901997-25
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/05/2020

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos 5 μm

Client Sample Number	RJLG Sample Number	-----Structures 5 μm-----				-----Weight Percent----- Structures 5 μm Analytical Sensitivity			
		Chry	Amph	Cleavage	Non-Asbestos	Chry	Asb	Cleavage Fragment	Non-Asbestos
10	3158172	0	0	0	0	<u>< 3.3E-5</u> 3.3E-5	<u>< 4.2E-5</u> 4.2E-5	<u>< 2.7E-5</u> 2.7E-5	<u>< 2.5E-5</u> 2.5E-5

NOTES

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- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
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RJ Lee Group, Inc.

RJ Lee Group Job No: LLH901997-25
Client Job No/Name:

Final Laboratory Report (cont'd)

Client: K & L Gates
Report Date: 08/05/2020

Client Sample Number	RJLG Sample Number	Material Used (gm)	Area Analyzed Total (mm ²)	Area Analyzed 5 μm (mm ²)	Effective Filter Area (mm ²)	Dilution Factor
10	3158172	0.0003	0.30603	0.30603	1220	1.0

Authorized Signature: 
Ashleigh Sload, Scientist

NOTES

- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
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RJL: LLH901997-25	3158172.HTA1	Microscope tem2000fx2	Grid Openings	10
10	K & L Gates	Magnification 21 KX	Asbestos	0.0
Wt: 0.0003 gm	Grid: 0.0087 mm ²	Acc. Voltage 120 KV	Asbestos >= 5µm	0.0
Dil: 1.0	Filter Size: 47 mm	Operator: Jon Swope	Nonasbestos	0.0
HQ45493		Cv = 0	Nonasbestos >= 5µm	0.0
			% Wt of largest asbestos structure	%

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1				NSD							
2				NSD							
3				NSD							
4				NSD							
5				NSD							
6				NSD							
7				NSD							
8				NSD							
9				NSD							
10				NSD							

10% Particulate

Analyst's Comments: N/A

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 8/3/2020 12:07:26 PM approve by Jon Swope

Final Review: 8/5/20 3:11 PM approve by Ashleigh Sload

RJL: LLH901997-25	3158172.HTA1	Microscope tem2000fx2	Grid Openings	25
10	K & L Gates	Magnification 10 KX	Asbestos	0.0
Wt: 0.0003 gm	Grid: 0.0087 mm ²	Acc. Voltage 120 KV	Nonasbestos	0.0
Dil: 1.0	Filter Size: 47 mm	Operator: Jon Swope	% Wt of largest asbestos structure	%
HQ45493		Cv = 0		

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1				NSD							
2				NSD							
3				NSD							
4				NSD							
5				NSD							
6				NSD							
7				NSD							
8				NSD							
9				NSD							
10				NSD							
11				NSD							
12				NSD							
13				NSD							
14				NSD							
15				NSD							
16				NSD							
17				NSD							
18				NSD							
19				NSD							
20				NSD							
21				NSD							
22				NSD							
23				NSD							
24				NSD							
25				NSD							

10% Particulate

Analyst's Comments: N/A

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 8/3/2020 12:17:44 PM approve by Jon Swope

Final Review: 8/5/20 3:11 PM approve by Ashleigh Sload

Final Laboratory Report

TEM Bulk Protocol

Attention: David Raphael
K & L Gates
17 North Second Street
Harrisburg, PA 17101
US

Report Date: 08/05/2020
Sample Receipt Date:
RJ Lee Group Job No.: LLH901997-25
Authorization/P.O. No.:
Samples Received: 1
Client Job No.:

Method: ISO 22262-2

TABLE 1 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos

Client Sample Number	RJLG Sample Number	Total Structures				-----Weight Percent----- Total Structures Analytical Sensitivity			
		Chry	Amph	Cleavage	Non Asbestos	Chry	Amph Asb	Amph Cleavage Fragment	Non Asbestos
10	3158172	0	0	0	0	< 3.3E-6 3.3E-6	< 2.7E-6 2.7E-6	< 2.7E-6 2.7E-6	< 2.5E-6 2.5E-6

NOTES

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RJ Lee Group Job No: LLH901997-25
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/05/2020

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos 5 μm

Client Sample Number	RJLG Sample Number	-----Structures 5 μm-----				-----Weight Percent----- Structures 5 μm Analytical Sensitivity			
		Chry	Amph	Cleavage	Non-Asbestos	Chry	Asb	Cleavage Fragment	Non-Asbestos
10	3158172	0	0	0	0	<u>< 3.3E-5</u> 3.3E-5	<u>< 2.7E-5</u> 2.7E-5	<u>< 2.7E-5</u> 2.7E-5	<u>< 2.5E-5</u> 2.5E-5

NOTES

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RJ Lee Group, Inc.

Final Laboratory Report (cont'd)

RJ Lee Group Job No: LLH901997-25
Client Job No/Name:

Client: K & L Gates
Report Date: 08/05/2020

Client Sample Number	RJLG Sample Number	Material Used (gm)	Area Analyzed Total (mm ²)	Area Analyzed 5 μm (mm ²)	Effective Filter Area (mm ²)	Dilution Factor
10	3158172	0.0003	0.30603	0.30603	1220	1.0

Authorized Signature: 
Ashleigh Sload, Scientist

NOTES

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RJ Lee Group, Inc
LLH901997-25
3158172.HTA1

K & L Gates
10

03-Aug-20

Air volume:

Area of collection filter:

Volume flowrate:

Level of analysis (chrysotile):

NA

Level of analysis (amphibole):

NA

0

Magnification used for structure counting:

Aspect ratio for fibre definition:

3:1

Mean dimension of grid openings:

0.0087436

Initials of analyst:

JS

Number of grid openings examined:

35

Analytical sensitivity:

Number of primary asbestos structures:

0

Number of asbestos structures counted:

0

Number of asbestos structures >5 µm:

0

Number of fibres and bundles > 5 µm:

0

Number of PCM equivalent asbestos structures:

0

Number of PCM equivalent asbestos fibres:

0

TEM asbestos structure count					
Report Number:	LLH901997-25				
Sample Number:	3158172.HTA1			Sample Weight:	0.0003
Sample Description:	10			Filter area (mm ²):	1220
				Magnification:	10/20 KX
				Grid opening dimension (mm ²)	0.0087436
Preparation date:	06/25/20	By:	Mk		
Analysis date:	08/3/20	By:	JS	Level of analysis (chrysotile)	NA
Computer entry date:	08/9/20	By:	MMK	Level of analysis (amphibole)	NA

Grid	Grid Opening	Structures		Identification	Structure type	Length (µm)	Width (µm)	Fibre Type	Comments
		primary	total						
1	J1			No Fibres					
	J3			No Fibres					
	J5			No Fibres					
	J7			No Fibres					
	J9			No Fibres					
	C1			No Fibres					
	C3			No Fibres					
	C5			No Fibres					
	C7			No Fibres					
	E7			No Fibres					
	E4			No Fibres					
	E2			No Fibres					
	G1			No Fibres					
	G3			No Fibres					
	G5			No Fibres					
	G7			No Fibres					
	G9			No Fibres					
2	A2			No Fibres					
	A4			No Fibres					
	B6			No Fibres					
	B8			No Fibres					
	B10			No Fibres					
	D10			No Fibres					
	D8			No Fibres					
	D6			No Fibres					
	D4			No Fibres					
	F3			No Fibres					
	F7			No Fibres					
	F9			No Fibres					
	G10			No Fibres					
	I3			No Fibres					
	I5			No Fibres					
	I7			No Fibres					
	I9			No Fibres					
	J10			No Fibres					

Final Laboratory Report

TEM Bulk Protocol

Attention: David Raphael
 K & L Gates
 17 North Second Street
 Harrisburg, PA 17101
 US

Report Date: 08/12/2020
 Sample Receipt Date:
 RJ Lee Group Job No.: LLH901997-26
 Authorization/P.O. No.:
 Samples Received: 1
 Client Job No.:

Method: EPA/R-93/600/116

TABLE 1 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos

Client Sample Number	RJLG Sample Number	<u>Total Structures</u>				-----Weight Percent----- <u>Total Structures</u> Analytical Sensitivity			
		Chry	Amph	Cleavage	Non Asbestos	Chry	Amph Asb	Amph Cleavage Fragment	Non Asbestos
#1 - DB-1	3158807	0	3	130	0	<u>< 1.1E-5</u> 1.1E-5	<u>7.2E-3</u> 1.4E-5	<u>1.0E1</u> 8.7E-6	<u>< 8.2E-6</u> 8.2E-6

NOTES

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3. If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
4. Density of amphibole: 3.2×10^{-3} ng/ μ m³, density of chrysotile: 2.55×10^{-3} ng/ μ m³, density of non-asbestos: 3.00×10^{-3} ng/ μ m³.
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RJ Lee Group Job No: LLH901997-26
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/12/2020

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos 5 μm

Client Sample Number	RJLG Sample Number	-----Structures 5 μm-----				-----Weight Percent----- Structures 5 μm Analytical Sensitivity			
		Chry	Amph	Cleavage	Non-Asbestos	Amphibole			
						Chry	Asb	Cleavage Fragment	Non-Asbestos
#1 - DB-1	3158807	0	0	39	0	<u>< 1.1E-4</u> 1.1E-4	<u>< 1.4E-4</u> 1.4E-4	<u>9.0E0</u> 8.7E-5	<u>< 8.2E-5</u> 8.2E-5

NOTES

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- Density of amphibole: 3.2 * 10⁻³ ng/ μ m³, density of chrysotile: 2.55 * 10⁻³ ng/ μ m³, density of non-asbestos: 3.00 * 10⁻³ ng/ μ m³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
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RJ Lee Group, Inc.

RJ Lee Group Job No: LLH901997-26
Client Job No/Name:

Final Laboratory Report (cont'd)

Client: K & L Gates
Report Date: 08/12/2020

Client Sample Number	RJLG Sample Number	Material Used (gm)	Area Analyzed Total (mm ²)	Area Analyzed 5 μm (mm ²)	Effective Filter Area (mm ²)	Dilution Factor
#1 - DB-1	3158807	0.0001	0.27972	0.27972	1220	1.0

Authorized Signature: 
Ashleigh Sload, Scientist

NOTES

- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2×10^{-3} ng/μm³, density of chrysotile: 2.55×10^{-3} ng/μm³, density of non-asbestos: 3.00×10^{-3} ng/μm³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
- These results are submitted pursuant to RJ Lee Group'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 these results are used or interpreted.

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RJL: LLH901997-26	3158807.HTA3	Microscope tem1200_2	Grid Openings	7
#1 - DB-1	K & L Gates	Magnification 20 KX	Asbestos	3.0
Wt: 0.0001 gm	Grid: 0.0087 mm ²	Acc. Voltage 120 KV	Asbestos >= 5µm	0.0
Dil: 1.	Filter Size: 47 mm	Operator: Jacquelyn Mershon	Nonasbestos	103.0
HQ45566		Cv = 0.531	Nonasbestos >= 5µm % Wt of largest asbestos structure	12.0 %

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1	1	7.84	0.74	Amphibole		MgSiCaFe	19388B	Image1	Diff1	Acti	Cle
1	2	2.8	0.56	Amphibole		MgSiCaFe			X	Acti	Cle
1	3	1.68	0.24	Amphibole		MgSiCaFe			X	Acti	Cle
1	4	3.08	0.56	Amphibole		MgSiCaFe			X	Acti	Cle
1	5	1.54	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
1	6	4.2	0.68	Amphibole		MgSiCaFe			X	Acti	Cle
1	7	6.16	0.84	Amphibole		MgSiCaFe			X	Acti	Cle
1	8	1.68	0.18	Amphibole		MgSiCaFe			X	Acti	Cle
1	9	8.4	0.94	Amphibole		MgSiCaFe	19389B	Image2	Diff2	Acti	Cle
1	10	4.9	0.68	Amphibole		MgSiCaFe			X	Acti	Cle
1	11	2.86	0.56	Amphibole		MgSiCaFe			X	Acti	Cle
1	12	3.22	0.36	Amphibole		MgSiCaFe			X	Acti	Cle
1	13	3.08	0.7	Amphibole		MgSiCaFe			X	Acti	Cle
2	1	3.64	0.12	Amphibole	F	MgSiCaFe			X	Acti	Asb
2	2	1.54	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
2	3	1.96	0.18	Amphibole		MgSiCaFe			X	Acti	Cle
2	4	1.96	0.24	Amphibole		MgSiCaFe			X	Acti	Cle
2	5	2.1	0.36	Amphibole		MgSiCaFe			X	Acti	Cle
2	6	2.36	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
2	7	2.1	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
2	8	2.1	0.12	Amphibole	F	MgSiCaFe	19390B	Image3	Diff3	Acti	Asb
2	9	10.36	0.84	Amphibole		MgSiCaFe			X	Acti	Cle
2	10	3.36	0.48	Amphibole		MgSiCaFe			X	Acti	Cle
2	11	1.96	0.36	Amphibole		MgSiCaFe			X	Acti	Cle
2	12	1.82	0.14	Amphibole		MgSiCaFe			X	Acti	Cle
2	13	1.4	0.18	Amphibole		MgSiCaFe			X	Acti	Cle
2	14	2.24	0.24	Amphibole		MgSiCaFe			X	Acti	Cle
2	15	3.58	0.48	Amphibole		MgSiCaFe			X	Acti	Cle
2	16	2.24	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
2	17	1.3	0.18	Amphibole		MgSiCaFe			X	Acti	Cle
2	18	4.48	0.42	Amphibole		MgSiCaFe	19401B	Image4	Diff4	Acti	Cle
2	19	2.52	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
2	20	2.1	0.42	Amphibole		MgSiCaFe			X	Acti	Cle
2	21	19.6	2.8	Amphibole		MgSiCaFe			X	Acti	Cle
3	1	3.92	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
3	2	1.68	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
3	3	2.92	0.42	Amphibole		MgSiCaFe			X	Acti	Cle
3	4	1.68	0.14	Amphibole		MgSiCaFe			X	Acti	Cle
3	5	1.34	0.14	Amphibole		MgSiCaFe			X	Acti	Cle
3	6	1.68	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
3	7	2.24	0.24	Amphibole		MgSiCaFe			X	Acti	Cle
3	8	3.64	0.56	Amphibole		MgSiCaFe			X	Acti	Cle
3	9	4.2	0.84	Amphibole		MgSiCaFe			X	Acti	Cle
3	10	2.1	0.3	Amphibole		MgSiCaFe	19391B	Image5	Diff5	Acti	Cle

RJL: LLH901997-26	3158807.HTA3	Microscope tem1200_2	Grid Openings	7
#1 - DB-1	K & L Gates	Magnification 20 KX	Asbestos	3.0
Wt: 0.0001 gm	Grid: 0.0087 mm ²	Acc. Voltage 120 KV	Asbestos >= 5µm	0.0
Dil: 1.	Filter Size: 47 mm	Operator: Jacquelyn Mershon	Nonasbestos	103.0
HQ45566		Cv = 0.531	Nonasbestos >= 5µm	12.0
			% Wt of largest asbestos structure	%

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
3	11	2.52	0.42	Amphibole		MgSiCaFe			X	Acti	Cle
3	12	1.68	0.14	Amphibole		MgSiCaFe			X	Acti	Cle
3	13	3.08	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
3	14	3.08	0.56	Amphibole		MgSiCaFe			X	Acti	Cle
4	1	1.74	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
4	2	2.1	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
4	3	3.8	0.68	Amphibole		MgSiCaFe			X	Acti	Cle
4	4	1.54	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
4	5	9.52	0.48	Amphibole		MgSiCaFe19395B		Image6	Diff6	Acti	Cle
4	6	2.8	0.54	Amphibole		MgSiCaFe			X	Acti	Cle
4	7	1.12	0.18	Amphibole		MgSiCaFe			X	Acti	Cle
4	8	1.74	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
4	9	2.24	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
4	10	1.18	0.18	Amphibole		MgSiCaFe			X	Acti	Cle
4	11	1.62	0.45	Amphibole		MgSiCaFe			X	Acti	Cle
4	12	1.15	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
5	1	1.82	0.36	Amphibole		MgSiCaFe			X	Acti	Cle
5	2	1.54	0.14	Amphibole		MgSiCaFe			X	Acti	Cle
5	3	0.8	0.14	Amphibole		MgSiCaFe			X	Acti	Cle
5	4	0.9	0.18	Amphibole		MgSiCaFe			X	Acti	Cle
5	5	6.02	0.68	Amphibole		MgSiCaFe19396B		Image7	Diff7	Acti	Cle
5	6	1.68	0.14	Amphibole		MgSiCaFe			X	Acti	Cle
5	7	1.68	0.18	Amphibole		MgSiCaFe			X	Acti	Cle
5	8	3.36	0.18	Amphibole		MgSiCaFe		Image8	X	Acti	Cle
5	9	3.08	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
5	10	1.68	0.14	Amphibole		MgSiCaFe			X	Acti	Cle
5	11	1.68	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
5	12	7.65	0.56	Amphibole		MgSiCaFe			X	Acti	Cle
5	13	10.64	1.54	Amphibole		MgSiCaFe			X	Acti	Cle
5	14	3.36	0.36	Amphibole		MgSiCaFe			X	Acti	Cle
5	15	3.74	0.56	Amphibole		MgSiCaFe			X	Acti	Cle
6	1	1.26	0.18	Amphibole		MgSiCaFe			X	Acti	Cle
6	2	1.68	0.24	Amphibole		MgSiCaFe			X	Acti	Cle
6	3	2.92	0.56	Amphibole		MgSiCaFe			X	Acti	Cle
6	4	1.12	0.14	Amphibole		MgSiCaFe			X	Acti	Cle
6	5	1.26	0.24	Amphibole		MgSiCaFe			X	Acti	Cle
6	6	2.8	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
6	7	3.36	0.14	Amphibole	F	MgSiCaFe19397B		Image10	Diff8	Acti	Asb
6	8	1.68	0.14	Amphibole		MgSiCaFe			X	Acti	Cle
6	9	3.92	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
6	10	2.24	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
6	11	1.4	0.18	Amphibole		MgSiCaFe			X	Acti	Cle
6	12	1.68	0.24	Amphibole		MgSiCaFe			X	Acti	Cle
6	13	4.2	0.36	Amphibole		MgSiCaFe19398B		Image11	Diff9 Diff10	Acti	Cle

RJ Lee Group, Inc.
TEM Count Sheet

RJL: LLH901997-26	3158807.HTA3	Microscope tem1200_2	Grid Openings	7
#1 - DB-1	K & L Gates	Magnification 20 KX	Asbestos	3.0
Wt: 0.0001 gm	Grid: 0.0087 mm ²	Acc. Voltage 120 KV	Asbestos >= 5µm	0.0
Dil: 1.	Filter Size: 47 mm	Operator: Jacquelyn Mershon	Nonasbestos	103.0
HQ45566		Cv = 0.531	Nonasbestos >= 5µm	12.0
			% Wt of largest asbestos structure	%

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
6	14	1.4	0.18	Amphibole		MgSiCaFe			X	Acti	Cle
6	15	1.4	0.18	Amphibole		MgSiCaFe			X	Acti	Cle
6	16	2.24	0.18	Amphibole		MgSiCaFe			X	Acti	Cle
6	17	1.96	0.24	Amphibole		MgSiCaFe			X	Acti	Cle
7	1	6.02	0.3	Amphibole		MgSiCaFe	19399B	Image12 Diff11		Acti	Cle
7	2	5.04	0.42	Amphibole		MgSiCaFe			X	Acti	Cle
7	3	2.38	0.42	Amphibole		MgSiCaFe			X	Acti	Cle
7	4	1.68	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
7	5	1.26	0.18	Amphibole		MgSiCaFe			X	Acti	Cle
7	6	5.32	0.36	Amphibole		MgSiCaFe			X	Acti	Cle
7	7	1.54	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
7	8	1.26	0.18	Amphibole		MgSiCaFe			X	Acti	Cle
7	9	3.08	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
7	10	4.06	0.48	Amphibole		MgSiCaFe			X	Acti	Cle
7	11	3.92	0.42	Amphibole		MgSiCaFe			X	Acti	Cle
7	12	1.68	0.24	Amphibole		MgSiCaFe			X	Acti	Cle
7	13	2.24	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
7	14	2.52	0.36	Amphibole		MgSiCaFe	19400B	Image13 Diff12		Acti	Cle

8% Particulate

Analyst's Comments: Analyzed on 1200ii

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 7/24/2020 9:54:25 AM approve by Jacquelyn Mershon

Final Review: 8/13/20 9:22 AM approve by Bryan Bandli

RJL: LLH901997-26	3158807.HTA3	Microscope tem1200_2	Grid Openings	25
#1 - DB-1	K & L Gates	Magnification 10 KX	Asbestos	0.0
Wt: 0.0001 gm	Grid: 0.0087 mm ²	Acc. Voltage 120 KV	Nonasbestos	27.0
Dil: 1.	Filter Size: 47 mm	Operator: Jacquelyn Mershon	% Wt of largest asbestos	%
HQ45566		Cv = 0	structure	

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1				NSD							
2	1	8.05	1.53	Amphibole		MgSiCaFe19392B		Image1	Diff1	Acti	Cle
2	2	6	0.44	Amphibole		MgSiCaFe		Image2	X	Acti	Cle
2	3	5.44	0.44	Amphibole		MgSiCaFe			X	Acti	Cle
3				NSD							
4	1	5.11	0.55	Amphibole		MgSiCaFe			X	Acti	Cle
4	2	9.81	1.74	Amphibole		MgSiCaFe			X	Acti	Cle
5	1	6.81	1.09	Amphibole		MgSiCaFe			X	Acti	Cle
5	2	5.33	0.5	Amphibole		MgSiCaFe19393B		Image3	Diff2	Acti	Cle
6	1	6.54	0.44	Amphibole		MgSiCaFe			X	Acti	Cle
7				NSD							
8	1	6.65	0.39	Amphibole		MgSiCaFe		Image4	X	Acti	Cle
9				NSD							
10				NSD							
11	1	5.44	0.55	Amphibole		MgSiCaFe			X	Acti	Cle
12	1	6.87	1.31	Amphibole		MgSiCaFe		Image6	X	Acti	Cle
13	1	6.65	1.31	Amphibole		MgSiCaFe			X	Acti	Cle
13	2	10.35	0.77	Amphibole		MgSiCaFe			X	Acti	Cle
14				NSD							
15	1	5.44	0.55	Amphibole		MgSiCaFe			X	Acti	Cle
15	2	9.54	0.88	Amphibole		MgSiCaFe			X	Acti	Cle
15	3	7.63	0.55	Amphibole		MgSiCaFe			X	Acti	Cle
16	1	7.63	0.55	Amphibole		MgSiCaFe			X	Acti	Cle
17				NSD							
18	1	10.44	1.63	Amphibole		MgSiCaFe			X	Acti	Cle
18	2	6	1.2	Amphibole		MgSiCaFe			X	Acti	Cle
19	1	9.81	1.74	Amphibole		MgSiCaFe			X	Acti	Cle
19	2	5.11	0.33	Amphibole		MgSiCaFe			X	Acti	Cle
19	3	8.16	0.33	Amphibole		MgSiCaFe19394B		Image7	Diff3	Acti	Cle
20	1	12.54	0.88	Amphibole		MgSiCaFe			X	Acti	Cle
21	1	8.72	1.63	Amphibole		MgSiCaFe			X	Acti	Cle
22	1	6.54	1.09	Amphibole		MgSiCaFe			X	Acti	Cle
23	1	14.17	1.96	Amphibole		MgSiCaFe			X	Acti	Cle
23	2	5.44	0.88	Amphibole		MgSiCaFe			X	Acti	Cle
24				NSD							
25				NSD							

8% Particulate

Analyst's Comments: Analyzed on 1200ii

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 7/24/2020 11:30:29 AM approve by Jacquelyn Mershon

Final Review: 8/13/20 9:22 AM approve by Bryan Bandli

Final Laboratory Report

TEM Bulk Protocol

Attention: David Raphael
 K & L Gates
 17 North Second Street
 Harrisburg, PA 17101
 US

Report Date: 08/12/2020
 Sample Receipt Date:
 RJ Lee Group Job No.: LLH901997-26
 Authorization/P.O. No.:
 Samples Received: 1
 Client Job No.:

Method: ISO 22262-2

TABLE 1 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos

Client Sample Number	RJLG Sample Number	<u>Total Structures</u>				-----Weight Percent----- <u>Total Structures</u> Analytical Sensitivity			
		Chry	Amph	Cleavage	Non Asbestos	Chry	Amph Asb	Amph Cleavage Fragment	Non Asbestos
#1 - DB-1	3158807	0	3	130	0	< 1.1E-5 1.1E-5	4.6E-3 8.7E-5	1.0E1 8.7E-6	< 8.2E-6 8.2E-6

NOTES

1. "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
2. Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
3. If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
4. Density of amphibole: 3.2×10^{-3} ng/ μ m³, density of chrysotile: 2.55×10^{-3} ng/ μ m³, density of non-asbestos: 3.00×10^{-3} ng/ μ m³.
5. Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
6. Samples will be held for 90 days and then disposed of per Federal regulations.
7. These results are submitted pursuant to RJ Lee Group'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 these results are used or interpreted.

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RJ Lee Group Job No: LLH901997-26
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/12/2020

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos 5 μm

Client Sample Number	RJLG Sample Number	-----Structures 5 μm-----				-----Weight Percent----- Structures 5 μm Analytical Sensitivity			
		Chry	Amph	Cleavage	Non-Asbestos	Amphibole			
						Chry	Asb	Cleavage Fragment	Non-Asbestos
#1 - DB-1	3158807	0	0	39	0	<u>< 1.1E-4</u> 1.1E-4	<u>< 8.7E-4</u> 8.7E-4	<u>9.0E0</u> 8.7E-5	<u>< 8.2E-5</u> 8.2E-5

NOTES

- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2 * 10⁻³ ng/ μ m³, density of chrysotile: 2.55 * 10⁻³ ng/ μ m³, density of non-asbestos: 3.00 * 10⁻³ ng/ μ m³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
- These results are submitted pursuant to RJ Lee Group'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 these results are used or interpreted.

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RJ Lee Group, Inc.

RJ Lee Group Job No: LLH901997-26
Client Job No/Name:

Final Laboratory Report (cont'd)

Client: K & L Gates
Report Date: 08/12/2020

Client Sample Number	RJLG Sample Number	Material Used (gm)	Area Analyzed Total (mm ²)	Area Analyzed 5 μm (mm ²)	Effective Filter Area (mm ²)	Dilution Factor
#1 - DB-1	3158807	0.0001	0.27972	0.27972	1220	1.0

Authorized Signature: 
Ashleigh Sload, Scientist

NOTES

- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2×10^{-3} ng/μm³, density of chrysotile: 2.55×10^{-3} ng/μm³, density of non-asbestos: 3.00×10^{-3} ng/μm³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
- These results are submitted pursuant to RJ Lee Group'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 these results are used or interpreted.

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RJ Lee Group, Inc
LLH901997-26
3158807.HTA3

K & L Gates
#1 - DB-1

24-Jul-20

Air volume:
Area of collection filter:
Volume flowrate:
Level of analysis (chrysotile): NA
Level of analysis (amphibole): AZZQ
Magnification used for structure counting:
Aspect ratio for fibre definition: 3:1
Mean dimension of grid openings: 0.00874123
Initials of analyst: JM
Number of grid openings examined: 32
Analytical sensitivity:
Number of primary asbestos structures: 133
Number of asbestos structures counted: 133
Number of asbestos structures >5 µm: 39
Number of fibres and bundles > 5 µm: 39
Number of PCM equivalent asbestos structures: 39
Number of PCM equivalent asbestos fibres: 35

TEM asbestos structure count					
Report Number:	LLH901997-26			Sample Weight:	0.0001
Sample Number:	3158807.HTA3			Filter area (mm ²):	1220
Sample Description:	#1 - DB-1			Magnification:	10/20 KX
				Grid opening dimension (mm ²)	0.00874123
Preparation date:	07/23/20	By:	MK		
Analysis date:	07/24/20	By:	JM	Level of analysis (chrysotile)	NA
Computer entry date:	08/6/20	By:	MMK	Level of analysis (amphibole)	AZZQ

Grid	Grid Opening	Structures		Identification	Structure type	Length (µm)	Width (µm)	Fibre Type	Comments
		primary	total						
1	12	1	1	AZQ	F	7.84	0.74	Actinolite	
		2	2	ADX	F	2.8	0.56	Actinolite	
		3	3	ADX	F	1.68	0.24	Actinolite	
		4	4	ADX	F	3.08	0.56	Actinolite	
		5	5	ADX	F	1.54	0.3	Actinolite	
		6	6	ADX	F	4.2	0.68	Actinolite	
		7	7	ADX	F	6.16	0.84	Actinolite	
		8	8	AZQ	F	1.68	0.18	Actinolite	
		9	9	ADX	F	8.4	0.94	Actinolite	
		10	10	ADX	F	4.9	0.68	Actinolite	
		11	11	ADX	F	2.86	0.56	Actinolite	
		12	12	ADX	F	3.22	0.36	Actinolite	
		13	13	ADX	F	3.08	0.7	Actinolite	
	14	14	14	AZQ	F	3.64	0.12	Actinolite	
		15	15	ADX	F	1.54	0.3	Actinolite	
		16	16	ADX	F	1.96	0.18	Actinolite	
		17	17	ADX	F	1.96	0.24	Actinolite	
		18	18	ADX	F	2.1	0.36	Actinolite	
		19	19	ADX	F	2.36	0.3	Actinolite	
		20	20	ADX	F	2.1	0.3	Actinolite	
		21	21	AZQ	F	2.1	0.12	Actinolite	
		22	22	ADX	F	10.36	0.84	Actinolite	
		23	23	ADX	F	3.36	0.48	Actinolite	
		24	24	ADX	F	1.96	0.36	Actinolite	
		25	25	ADX	F	1.82	0.14	Actinolite	
		26	26	ADX	F	1.4	0.18	Actinolite	
		27	27	ADX	F	2.24	0.24	Actinolite	
		28	28	ADX	F	3.58	0.48	Actinolite	
		29	29	ADX	F	2.24	0.3	Actinolite	
		30	30	ADX	F	1.3	0.18	Actinolite	
		31	31	AZQ	F	4.48	0.42	Actinolite	
		32	32	ADX	F	2.52	0.3	Actinolite	
		33	33	ADX	F	2.1	0.42	Actinolite	
		34	34	ADX	F	19.6	2.8	Actinolite	
	16	35	35	ADX	F	3.92	0.3	Actinolite	
		36	36	ADX	F	1.68	0.3	Actinolite	
		37	37	ADX	F	2.92	0.42	Actinolite	
		38	38	ADX	F	1.68	0.14	Actinolite	
		39	39	ADX	F	1.34	0.14	Actinolite	
		40	40	ADX	F	1.68	0.3	Actinolite	
		41	41	ADX	F	2.24	0.24	Actinolite	
		42	42	ADX	F	3.64	0.56	Actinolite	
		43	43	ADX	F	4.2	0.84	Actinolite	

TEM asbestos structure count					
Report Number:	LLH901997-26				
Sample Number:	3158807.HTA3			Sample Weight:	0.0001
Sample Description:	#1 - DB-1			Filter area (mm ²):	1220
				Magnification:	10/20 KX
				Grid opening dimension (mm ²)	0.00874123
Preparation date:	07/23/20	By:	MK		
Analysis date:	07/24/20	By:	JM	Level of analysis (chrysotile)	NA
Computer entry date:	08/6/20	By:	MMK	Level of analysis (amphibole)	AZZQ

Grid	Grid Opening	Structures		Identification	Structure type	Length (µm)	Width (µm)	Fibre Type	Comments
		primary	total						
		44	44	AZQ	F	2.1	0.3	Actinolite	
		45	45	ADX	F	2.52	0.42	Actinolite	
		46	46	ADX	F	1.68	0.14	Actinolite	
		47	47	ADX	F	3.08	0.3	Actinolite	
		48	48	ADX	F	3.08	0.56	Actinolite	
	B3			No Fibres					
	B5	49	49	AZQ	F	8.05	1.53	Actinolite	
		50	50	ADX	B	6	0.44	Actinolite	
		51	51	ADX	F	5.44	0.44	Actinolite	
	B7			No Fibres					
	B9	52	52	ADX	F	5.11	0.55	Actinolite	
		53	53	ADX	F	9.81	1.74	Actinolite	
	D9	53	53	ADX	F	6.81	1.09	Actinolite	
		54	54	AZQ	B	5.33	0.5	Actinolite	
	D7	55	55	ADX	F	6.54	0.44	Actinolite	
	D3	56	56	ADX	B	6.65	0.39	Actinolite	
	D1			No Fibres					
	F1			No Fibres					
	F3	57	57	ADX	F	5.44	0.55	Actinolite	
	F8	58	58	ADX	B	13.74	1.31	Actinolite	
	F10	59	59	ADX	F	6.65	1.31	Actinolite	
2		60	60	ADX	F	10.35	0.77	Actinolite	
	A4			No Fibres					
	A6	61	61	ADX	F	5.44	0.55	Actinolite	
		62	62	ADX	F	9.54	0.88	Actinolite	
		63	63	ADX	F	7.63	0.55	Actinolite	
	A8	64	64	ADX	F	7.63	0.55	Actinolite	
	A10			No Fibres					
	C9	65	65	ADX	F	10.44	1.63	Actinolite	
		66	66	ADX	F	6	1.2	Actinolite	
	C7	67	67	ADX	F	9.81	1.74	Actinolite	
		68	68	ADX	F	5.11	0.33	Actinolite	
		69	69	AZQ	F	16.32	0.33	Actinolite	
	C5	70	70	ADX	F	12.54	0.88	Actinolite	
	C3	71	71	ADX	F	8.72	1.63	Actinolite	
	E2	72	72	ADX	F	6.54	1.09	Actinolite	
	E4	73	73	ADX	F	14.17	1.96	Actinolite	
		74	74	ADX	F	5.44	0.88	Actinolite	
	E8			No Fibres					
	E10			No Fibres					
	I1	75	75	ADX	F	1.74	0.3	Actinolite	
		76	76	ADX	F	2.1	0.2	Actinolite	
		77	77	ADX	F	3.8	0.68	Actinolite	

TEM asbestos structure count					
Report Number:	LLH901997-26			Sample Weight:	0.0001
Sample Number:	3158807.HTA3			Filter area (mm ²):	1220
Sample Description:	#1 - DB-1			Magnification:	10/20 KX
				Grid opening dimension (mm ²)	0.00874123
Preparation date:	07/23/20	By:	MK		
Analysis date:	07/24/20	By:	JM	Level of analysis (chrysotile)	NA
Computer entry date:	08/6/20	By:	MMK	Level of analysis (amphibole)	AZZQ

Grid	Grid Opening	Structures		Identification	Structure type	Length (µm)	Width (µm)	Fibre Type	Comments
		primary	total						
		78	78	ADX	F	1.54	0.3	Actinolite	
		79	79	ADX	F	9.52	0.48	Actinolite	
		80	80	ADX	F	2.8	0.54	Actinolite	
		81	81	ADX	F	1.12	0.18	Actinolite	
		82	82	ADX	F	1.74	0.3	Actinolite	
		83	83	ADX	F	2.24	0.3	Actinolite	
		84	84	ADX	F	1.18	0.18	Actinolite	
		85	85	ADX	F	1.62	0.45	Actinolite	
		86	86	ADX	F	1.15	0.3	Actinolite	
	13	87	87	ADX	F	1.82	0.36	Actinolite	
		88	88	ADX	F	1.54	0.14	Actinolite	
		89	89	ADX	F	0.8	0.14	Actinolite	
		90	90	ADX	F	0.9	0.18	Actinolite	
		91	91	AZQ	F	6.02	0.68	Actinolite	
		92	92	ADX	F	1.68	0.14	Actinolite	
		93	93	ADX	F	1.68	0.18	Actinolite	
		94	94	ADX	F	3.36	0.18	Actinolite	
		95	95	ADX	F	3.08	0.3	Actinolite	
		96	96	ADX	F	1.68	0.14	Actinolite	
		97	97	ADX	F	1.68	0.3	Actinolite	
		98	98	ADX	F	7.65	0.56	Actinolite	
		99	99	ADX	F	10.64	1.54	Actinolite	
		100	100	ADX	F	3.36	0.36	Actinolite	
		101	101	ADX	F	3.74	0.56	Actinolite	
	15	102	102	ADX	F	1.26	0.18	Actinolite	
		103	103	ADX	F	1.68	0.24	Actinolite	
		104	104	ADX	F	2.92	0.56	Actinolite	
		105	105	ADX	F	1.12	0.14	Actinolite	
		106	106	ADX	F	1.26	0.24	Actinolite	
		107	107	ADX	F	2.8	0.3	Actinolite	
		108	108	AZQ	F	3.36	0.14	Actinolite	
		109	109	ADX	F	1.68	0.14	Actinolite	
		110	110	ADX	F	3.92	0.3	Actinolite	
		111	111	ADX	F	2.24	0.3	Actinolite	
		112	112	ADX	F	1.4	0.18	Actinolite	
		113	113	ADX	F	1.68	0.24	Actinolite	
		114	114	AZZQ	F	4.2	0.36	Actinolite	
		115	115	ADX	F	1.4	0.18	Actinolite	
		116	116	ADX	F	1.4	0.18	Actinolite	
		117	117	ADX	F	2.24	0.18	Actinolite	
		118	118	ADX	F	1.96	0.24	Actinolite	
	17	119	119	AZQ	F	6.02	0.3	Actinolite	
		120	120	ADX	F	5.04	0.42	Actinolite	

TEM asbestos structure count					
Report Number:	LLH901997-26				
Sample Number:	3158807.HTA3		Sample Weight:	0.0001	
Sample Description:	#1 - DB-1		Filter area (mm ²):	1220	
			Magnification:	10/20 KX	
			Grid opening dimension (mm ²)	0.00874123	
Preparation date:	07/23/20	By:	MK		
Analysis date:	07/24/20	By:	JM	Level of analysis (chrysotile)	NA
Computer entry date:	08/6/20	By:	MMK	Level of analysis (amphibole)	AZZQ

Grid	Grid Opening	Structues		Identification	Structure type	Length (µm)	Width (µm)	Fibre Type	Comments
		primary	total						
		121	121	ADX	F	2.38	0.42	Actinolite	
		122	122	ADX	F	1.68	0.3	Actinolite	
		123	123	ADX	F	1.26	0.18	Actinolite	
		124	124	ADX	F	5.32	0.36	Actinolite	
		125	125	ADX	F	1.54	0.3	Actinolite	
		126	126	ADX	F	1.26	0.18	Actinolite	
		127	127	ADX	F	3.08	0.3	Actinolite	
		128	128	ADX	F	4.06	0.48	Actinolite	
		129	129	ADX	F	3.92	0.42	Actinolite	
		130	130	ADX	F	1.68	0.24	Actinolite	
		131	131	ADX	F	2.24	0.3	Actinolite	
		132	132	AZQ	F	2.52	0.36	Actinolite	

Final Laboratory Report

TEM Bulk Protocol

Attention: David Raphael
K & L Gates
17 North Second Street
Harrisburg, PA 17101
US

Report Date: 08/12/2020
Sample Receipt Date:
RJ Lee Group Job No.: LLH901997-26
Authorization/P.O. No.:
Samples Received: 1
Client Job No.:

Method: EPA/R-93/600/116

TABLE 1 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos

Client Sample Number	RJLG Sample Number	<u>Total Structures</u>				-----Weight Percent----- <u>Total Structures</u> Analytical Sensitivity			
		Chry	Amph	Cleavage	Non Asbestos	Chry	Amph Asb	Amph Cleavage Fragment	Non Asbestos
#2 - DB-2	3158808	0	0	15	9	<u>< 2.0E-6</u> 2.0E-6	<u>< 2.5E-6</u> 2.5E-6	<u>1.1E-1</u> 1.6E-6	<u>1.5E-2</u> 1.5E-6

NOTES

1. "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
2. Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
3. If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
4. Density of amphibole: 3.2×10^{-3} ng/ μ m³, density of chrysotile: 2.55×10^{-3} ng/ μ m³, density of non-asbestos: 3.00×10^{-3} ng/ μ m³.
5. Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
6. Samples will be held for 90 days and then disposed of per Federal regulations.
7. These results are submitted pursuant to RJ Lee Group'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 these results are used or interpreted.

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RJ Lee Group Job No: LLH901997-26
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/12/2020

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos 5 μm

Client Sample Number	RJLG Sample Number	-----Structures 5 μm-----				-----Weight Percent----- Structures 5 μm Analytical Sensitivity			
		Chry	Amph	Cleavage	Non-Asbestos	Amphibole			
						Chry	Asb	Cleavage Fragment	Non-Asbestos
#2 - DB-2	3158808	0	0	3	3	<u>< 2.0E-5</u> 2.0E-5	<u>< 2.5E-5</u> 2.5E-5	<u>5.9E-2</u> 1.6E-5	<u>4.2E-3</u> 1.5E-5

NOTES

- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2 * 10⁻³ ng/ μ m³, density of chrysotile: 2.55 * 10⁻³ ng/ μ m³, density of non-asbestos: 3.00 * 10⁻³ ng/ μ m³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
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RJ Lee Group, Inc.

RJ Lee Group Job No: LLH901997-26
Client Job No/Name:

Final Laboratory Report (cont'd)

Client: K & L Gates
Report Date: 08/12/2020

Client Sample Number	RJLG Sample Number	Material Used (gm)	Area Analyzed Total (mm ²)	Area Analyzed 5 μm (mm ²)	Effective Filter Area (mm ²)	Dilution Factor
#2 - DB-2	3158808	0.0005	0.30731	0.30731	1220	1.0

Authorized Signature: 
Ashleigh Sload, Scientist

NOTES

- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2×10^{-3} ng/μm³, density of chrysotile: 2.55×10^{-3} ng/μm³, density of non-asbestos: 3.00×10^{-3} ng/μm³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
- These results are submitted pursuant to RJ Lee Group'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 these results are used or interpreted.

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RJL: LLH901997-26	3158808.HTA1	Microscope tem1200_2	Grid Openings	10
#2 - DB-2	K & L Gates	Magnification 20 KX	Asbestos	0.0
Wt: 0.0005 gm	Grid: 0.0088 mm ²	Acc. Voltage 120 KV	Asbestos >= 5µm	0.0
Dil: 1.0	Filter Size: 47 mm	Operator: Jacquelyn Mershon	Nonasbestos	20.0
HQ45480		Cv = 0	Nonasbestos >= 5µm	2.0
			% Wt of largest asbestos structure	%

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1	1	2.98	0.56	Non-Asbestos		AlSiCa	19376B	Image2	X		
1	2	1.68	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
1	3	1	0.18	Amphibole		MgSiCaFe			X	Acti	Cle
2				NSD							
3	1	2.12	0.42	Amphibole		MgSiCaFe	19377B	Image3	Diff2	Acti	Cle
3	2	2.24	0.36	Amphibole		MgSiCaFe			X	Acti	Cle
3	3	3.22	0.24	Non-Asbestos		AlSiCa			X		
3	4	1.96	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
3	5	1.12	0.18	Amphibole		MgSiCaFe			X	Acti	Cle
3	6	3.36	0.48	Amphibole		MgSiCaFe			X	Acti	Cle
4	1	1.62	0.18	Non-Asbestos		AlSiCa			X		
5	1	1.26	0.14	Amphibole		MgSiCaFe			X	Acti	Cle
6	1	3.08	0.56	Non-Asbestos		AlSiCa			X		
6	2	7	0.3	Non-Asbestos		AlSiCa			X		
6	3	2.38	0.14	Non-Asbestos		AlSiCa			X		
7	1	5.04	0.48	Amphibole		MgSiCaFe			X	Acti	Cle
7	2	4.2	1.4	Amphibole		MgSiCaFe			X	Acti	Cle
8				NSD							
9	1	1.74	0.12	Amphibole		MgSiCaFe			X	Acti	Cle
10	1	3.08	0.36	Amphibole		MgSiCaFe	19378B	Image4	Diff3	Acti	Cle
10	2	2.24	0.42	Non-Asbestos		AlSiCa			X		
10	3	1.96	0.36	Amphibole		MgSiCaFe			X	Acti	Cle

14% Particulate

Analyst's Comments: N/A

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 7/23/2020 8:53:00 AM approve by Jacquelyn Mershon

Final Review: 8/12/20 12:25 PM approve by Bryan Bandli

RJL: LLH901997-26	3158808.HTA1	Microscope tem1200_2	Grid Openings	25
#2 - DB-2	K & L Gates	Magnification 10 KX	Asbestos	0.0
Wt: 0.0005 gm	Grid: 0.0088 mm ²	Acc. Voltage 120 KV	Nonasbestos	4.0
Dil: 1.0	Filter Size: 47 mm	Operator: Jacquelyn Mershon	% Wt of largest asbestos	%
HQ45480		Cv = 0	structure	

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1				NSD							
2				NSD							
3				NSD							
4				NSD							
5				NSD							
6				NSD							
7	1	5.5	1.7	Amphibole		MgSiCaFe			X	Acti	Cle
8				NSD							
9				NSD							
10	1	5.45	1.7	Amphibole		MgSiCaFe			X	Acti	Cle
11				NSD							
12				NSD							
13				NSD							
14				NSD							
15				NSD							
16				NSD							
17				NSD							
18	1	5.18	0.18	Non-Asbestos		AlSiCa	19379B	Image1		Diff2	
19				NSD							
20				NSD							
21				NSD							
22				NSD							
23				NSD							
24				NSD							
25	1	7.63	0.33	Non-Asbestos		AlSiCa	19380B	Image2		Diff3	

14% Particulate

Analyst's Comments: N/A

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 7/23/2020 10:03:17 AM approve by Jacquelyn Mershon

Final Review: 8/12/20 12:26 PM approve by Bryan Bandli

Final Laboratory Report

TEM Bulk Protocol

Attention: David Raphael
 K & L Gates
 17 North Second Street
 Harrisburg, PA 17101
 US

Report Date: 08/12/2020
 Sample Receipt Date:
 RJ Lee Group Job No.: LLH901997-26
 Authorization/P.O. No.:
 Samples Received: 1
 Client Job No.:

Method: ISO 22262-2

TABLE 1 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos

Client Sample Number	RJLG Sample Number	<u>Total Structures</u>				-----Weight Percent----- <u>Total Structures</u> Analytical Sensitivity			
		Chry	Amph	Cleavage	Non Asbestos	Chry	Amph Asb	Amph Cleavage Fragment	Non Asbestos
#2 - DB-2	3158808	0	0	15	9	< 2.0E-6 2.0E-6	< 1.6E-6 1.6E-6	1.1E-1 1.6E-6	1.5E-2 1.5E-6

NOTES

1. "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
2. Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
3. If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
4. Density of amphibole: 3.2×10^{-3} ng/ μ m³, density of chrysotile: 2.55×10^{-3} ng/ μ m³, density of non-asbestos: 3.00×10^{-3} ng/ μ m³.
5. Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
6. Samples will be held for 90 days and then disposed of per Federal regulations.
7. These results are submitted pursuant to RJ Lee Group'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 these results are used or interpreted.

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RJ Lee Group Job No: LLH901997-26
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/12/2020

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos 5 μm

Client Sample Number	RJLG Sample Number	-----Structures 5 μm-----				-----Weight Percent----- Structures 5 μm Analytical Sensitivity			
		Chry	Amph	Cleavage	Non-Asbestos	Amphibole			
						Chry	Asb	Cleavage Fragment	Non-Asbestos
#2 - DB-2	3158808	0	0	3	3	<u>< 2.0E-5</u> 2.0E-5	<u>< 1.6E-5</u> 1.6E-5	<u>5.9E-2</u> 1.6E-5	<u>4.2E-3</u> 1.5E-5

NOTES

- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2 * 10⁻³ ng/ μ m³, density of chrysotile: 2.55 * 10⁻³ ng/ μ m³, density of non-asbestos: 3.00 * 10⁻³ ng/ μ m³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
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RJ Lee Group, Inc.

RJ Lee Group Job No: LLH901997-26
Client Job No/Name:

Final Laboratory Report (cont'd)

Client: K & L Gates
Report Date: 08/12/2020

Client Sample Number	RJLG Sample Number	Material Used (gm)	Area Analyzed Total (mm ²)	Area Analyzed 5 μm (mm ²)	Effective Filter Area (mm ²)	Dilution Factor
#2 - DB-2	3158808	0.0005	0.30731	0.30731	1220	1.0

Authorized Signature: 
Ashleigh Sload, Scientist

NOTES

- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2×10^{-3} ng/μm³, density of chrysotile: 2.55×10^{-3} ng/μm³, density of non-asbestos: 3.00×10^{-3} ng/μm³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
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RJ Lee Group, Inc
LLH901997-26
3158808.HTA1

K & L Gates
#2 - DB-2

22-Jul-20

Air volume:
Area of collection filter:
Volume flowrate:
Level of analysis (chrysotile): NA
Level of analysis (amphibole): AZQ
Magnification used for structure counting:
Aspect ratio for fibre definition: 3:1
Mean dimension of grid openings: 0.00878032
Initials of analyst: JM
Number of grid openings examined: 35
Analytical sensitivity:
Number of primary asbestos structures: 15
Number of asbestos structures counted: 15
Number of asbestos structures >5 µm: 6
Number of fibres and bundles > 5 µm: 3
Number of PCM equivalent asbestos structures: 5
Number of PCM equivalent asbestos fibres: 3

TEM asbestos structure count					
Report Number:	LLH901997-26			Sample Weight:	0.0005
Sample Number:	3158808.HTA1			Filter area (mm ²):	1220
Sample Description:	#2 - DB-2			Magnification:	10/20 KX
				Grid opening dimension (mm ²)	0.00878032
Preparation date:	06/22/20	By:	RAM		
Analysis date:	07/22/20	By:	JM	Level of analysis (chrysotile)	NA
Computer entry date:	08/6/20	By:	MMK	Level of analysis (amphibole)	AZQ

Grid	Grid Opening	Structures		Identification	Structure type	Length (µm)	Width (µm)	Fibre Type	Comments
		primary	total						
1	1-H2			NAM		2.98	0.56		
		1	1	ADX	F	1.68	0.3	Actinolite	
		2	2	ADX	F	1	0.18	Actinolite	
	2-H4			No Fibres					
	3-H6	3	3	AZQ	F	2.12	0.42	Actinolite	
		4	4	ADX	F	2.24	0.36	Actinolite	
				NAM		3.22	0.24		
		5	5	ADX	F	1.96	0.3	Actinolite	
		6	6	ADX	F	1.12	0.18	Actinolite	
		7	7	ADX	F	3.36	0.48	Actinolite	
	4-H8			NAM		1.62	0.18		
	5-H10	8	8	ADX	F	1.26	0.24	Actinolite	
	1-B1								
	2-B3								
	3-B5								
	4-B7								
	5-B9								
	6-D10								
	7-D8	9	9	ADX	F	5.5	1.7	Actinolite	
	8-D6								
	9-D3								
	10-D2	10	10	ADX	F	5.45	1.7	Actinolite	
	11-F1								
	12-F3								
	13-F7								
2	14-B1								
	15-B3								
	16-B5								
	17-A7								
	18-B9			NAM		5.18	0.18		
	19-D8								
	20-D6								
	21-D4								
	22-D2								
	23-F1								
	24-F3								
	25-F7			NAM		7.63	0.33		
	6-H2			NAM		3.08	0.56		
				NAM		7	0.3		
				NAM		2.38	0.14		
	7-H4	11	11	ADX	F	5.04	0.48		
		12	12	ADX	F	4.2	1.4		
	8-H6								

TEM asbestos structure count					
Report Number:	LLH901997-26				
Sample Number:	3158808.HTA1		Sample Weight:	0.0005	
Sample Description:	#2 - DB-2		Filter area (mm ²):	1220	
			Magnification:	10/20 KX	
			Grid opening dimension (mm ²)	0.00878032	
Preparation date:	06/22/20	By:	RAM		
Analysis date:	07/22/20	By:	JM	Level of analysis (chrysotile)	NA
Computer entry date:	08/6/20	By:	MMK	Level of analysis (amphibole)	AZQ

Grid	Grid Opening	Structues		Identification	Structure type	Length (µm)	Width (µm)	Fibre Type	Comments
		primary	total						
	9-H8	13	13	ADX	F	1.74	0.12		
	10-H10	14	14	AZQ	F	3.08	0.36		
				NAM		2.24	0.42		
		15	15	ADX	F	1.96	0.36		

Final Laboratory Report

TEM Bulk Protocol

Attention: David Raphael
K & L Gates
17 North Second Street
Harrisburg, PA 17101
US

Report Date: 08/13/2020
Sample Receipt Date:
RJ Lee Group Job No.: LLH901997-26
Authorization/P.O. No.:
Samples Received: 1
Client Job No.:

Method: EPA/R-93/600/116

TABLE 1 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos

Client Sample Number	RJLG Sample Number	Total Structures				-----Weight Percent----- Total Structures Analytical Sensitivity			
		Chry	Amph	Cleavage	Non Asbestos	Chry	Amph Asb	Amph Cleavage Fragment	Non Asbestos
#3 - DB-3	3158809	0	0	3	1	< 3.3E-6 3.3E-6	< 4.2E-6 4.2E-6	2.3E-2 2.6E-6	1.9E-2 2.5E-6

NOTES

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- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
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- Density of amphibole: 3.2×10^{-3} ng/ μ m³, density of chrysotile: 2.55×10^{-3} ng/ μ m³, density of non-asbestos: 3.00×10^{-3} ng/ μ m³.
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RJ Lee Group Job No: LLH901997-26
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/13/2020

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos 5 μm

Client Sample Number	RJLG Sample Number	-----Structures 5 μm-----				-----Weight Percent----- Structures 5 μm Analytical Sensitivity			
		Chry	Amph	Cleavage	Non-Asbestos	Chry	Asb	Cleavage Fragment	Non-Asbestos
#3 - DB-3	3158809	0	0	0	0	<u>< 3.3E-5</u> 3.3E-5	<u>< 4.2E-5</u> 4.2E-5	<u>< 2.6E-5</u> 2.6E-5	<u>< 2.5E-5</u> 2.5E-5

NOTES

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- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
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RJ Lee Group, Inc.

RJ Lee Group Job No: LLH901997-26
Client Job No/Name:

Final Laboratory Report (cont'd)

Client: K & L Gates
Report Date: 08/13/2020

Client Sample Number	RJLG Sample Number	Material Used (gm)	Area Analyzed Total (mm ²)	Area Analyzed 5 μm (mm ²)	Effective Filter Area (mm ²)	Dilution Factor
#3 - DB-3	3158809	0.0003	0.30731	0.30731	1220	1.0

Authorized Signature: 
Ashleigh Sload, Scientist

NOTES

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- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
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RJL: LLH901997-26	3158809.HTA1	Microscope tem1200_2	Grid Openings	10
#3 - DB-3	K & L Gates	Magnification 20 KX	Asbestos	0.0
Wt: 0.0003 gm	Grid: 0.0088 mm ²	Acc. Voltage 120 KV	Asbestos >= 5µm	0.0
Dil: 1.0	Filter Size: 47 mm	Operator: Jacquelyn Mershon	Nonasbestos	4.0
HQ45480		Cv = 0	Nonasbestos >= 5µm	0.0
			% Wt of largest asbestos structure	%

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1	1	4.2	0.8	Non-Asbestos		MgSiCaFe	19451B	Image3	Diff3	CPX	
2	1	4.8	0.6	Amphibole		MgSiCaFe	19452B	Image4	Diff4	Acti	Cle
3				NSD							
4	1	2.8	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
5				NSD							
6	1	2.9	0.65	Amphibole		MgSiCaFe			X	Acti	Cle
7				NSD							
8				NSD							
9				NSD							
10				NSD							

6% Particulate

Analyst's Comments: Grids 4 and 5

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 7/23/2020 11:44:32 AM approve by Jacquelyn Mershon

Final Review: 8/12/20 12:24 PM approve by Bryan Bandli

RJL: LLH901997-26	3158809.HTA1	Microscope tem1200_2	Grid Openings	25
#3 - DB-3	K & L Gates	Magnification 10 KX	Asbestos	0.0
Wt: 0.0003 gm	Grid: 0.0088 mm ²	Acc. Voltage 120 KV	Nonasbestos	0.0
Dil: 1.0	Filter Size: 47 mm	Operator: Jacquelyn Mershon	% Wt of largest asbestos	%
HQ45480		Cv = 0	structure	

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1				NSD							
2				NSD							
3				NSD							
4				NSD							
5				NSD							
6				NSD							
7				NSD							
8				NSD							
9				NSD							
10				NSD							
11				NSD							
12				NSD							
13				NSD							
14				NSD							
15				NSD							
16				NSD							
17				NSD							
18				NSD							
19				NSD							
20				NSD							
21				NSD							
22				NSD							
23				NSD							
24				NSD							
25				NSD							

6% Particulate

Analyst's Comments: Grids 4 and 5

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 7/23/2020 12:32:58 PM approve by Jacquelyn Mershon

Final Review: 8/12/20 12:25 PM approve by Bryan Bandli

Final Laboratory Report

TEM Bulk Protocol

Attention: David Raphael
K & L Gates
17 North Second Street
Harrisburg, PA 17101
US

Report Date: 08/13/2020
Sample Receipt Date:
RJ Lee Group Job No.: LLH901997-26
Authorization/P.O. No.:
Samples Received: 1
Client Job No.:

Method: ISO 22262-2

TABLE 1 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos

Client Sample Number	RJLG Sample Number	Total Structures				-----Weight Percent----- Total Structures Analytical Sensitivity			
		Chry	Amph	Cleavage	Non Asbestos	Chry	Amph Asb	Amph Cleavage Fragment	Non Asbestos
#3 - DB-3	3158809	0	0	3	1	< 3.3E-6 3.3E-6	< 2.6E-6 2.6E-6	2.3E-2 2.6E-6	1.9E-2 2.5E-6

NOTES

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RJ Lee Group Job No: LLH901997-26
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/13/2020

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos 5 μm

Client Sample Number	RJLG Sample Number	-----Structures 5 μm-----				-----Weight Percent----- Structures 5 μm Analytical Sensitivity			
		Chry	Amph	Cleavage	Non-Asbestos	Chry	Asb	Cleavage Fragment	Non-Asbestos
#3 - DB-3	3158809	0	0	0	0	<u>< 3.3E-5</u> 3.3E-5	<u>< 2.6E-5</u> 2.6E-5	<u>< 2.6E-5</u> 2.6E-5	<u>< 2.5E-5</u> 2.5E-5

NOTES

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RJ Lee Group, Inc.

RJ Lee Group Job No: LLH901997-26
Client Job No/Name:

Final Laboratory Report (cont'd)

Client: K & L Gates
Report Date: 08/13/2020

Client Sample Number	RJLG Sample Number	Material Used (gm)	Area Analyzed Total (mm ²)	Area Analyzed 5 μm (mm ²)	Effective Filter Area (mm ²)	Dilution Factor
#3 - DB-3	3158809	0.0003	0.30731	0.30731	1220	1.0

Authorized Signature: 
Ashleigh Sload, Scientist

NOTES

- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2×10^{-3} ng/μm³, density of chrysotile: 2.55×10^{-3} ng/μm³, density of non-asbestos: 3.00×10^{-3} ng/μm³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
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RJ Lee Group, Inc
LLH901997-26
3158809.HTA1

K & L Gates
#3 - DB-3

23-Jul-20

Air volume:
Area of collection filter:
Volume flowrate:
Level of analysis (chrysotile): NA
Level of analysis (amphibole): AZQ
Magnification used for structure counting:
Aspect ratio for fibre definition: 3:1
Mean dimension of grid openings: 0.00878032
Initials of analyst: JM
Number of grid openings examined: 35
Analytical sensitivity:
Number of primary asbestos structures: 3
Number of asbestos structures counted: 3
Number of asbestos structures >5 µm: 0
Number of fibres and bundles > 5 µm: 0
Number of PCM equivalent asbestos structures: 0
Number of PCM equivalent asbestos fibres: 0

TEM asbestos structure count					
Report Number:	LLH901997-26				
Sample Number:	3158809.HTA1		Sample Weight:	0.0003	
Sample Description:	#3 - DB-3		Filter area (mm ²):	1220	
			Magnification:	10/20 KX	
			Grid opening dimension (mm ²):	0.00878032	
Preparation date:	06/22/20	By:	RAM		
Analysis date:	07/23/20	By:	JM	Level of analysis (chrysotile)	NA
Computer entry date:	08/6/20	By:	MMK	Level of analysis (amphibole)	AZQ

Grid	Grid Opening	Structures		Identification	Structure type	Length (µm)	Width (µm)	Fibre Type	Comments
		primary	total						
4	G1			NAM		4.2	0.8	CPX	
	G3	1	1	AZQ	F	4.8	4.8	Actinolite	
	G5			No Fibres					
	G7	2	2	ADX	F	2.8	0.3	Actinolite	
	G9			No Fibres					
5	G1	3	3	ADX	F	2.9	0.65	Actinolite	
	G3			No Fibres					
	G5			No Fibres					
	G7			No Fibres					
	G9			No Fibres					
4	B2			No Fibres					
	B4			No Fibres					
	B6			No Fibres					
	B8			No Fibres					
	D9			No Fibres					
	D7			No Fibres					
	D5			No Fibres					
	D3			No Fibres					
	D1			No Fibres					
	F2			No Fibres					
5	F4			No Fibres					
	F8			No Fibres					
	F10			No Fibres					
	B2			No Fibres					
	B4			No Fibres					
	B6			No Fibres					
	D2			No Fibres					
	D4			No Fibres					
	D8			No Fibres					
	F9			No Fibres					
5	F7			No Fibres					
	F3			No Fibres					
	F1			No Fibres					
	H6			No Fibres					
	H8			No Fibres					

Final Laboratory Report

TEM Bulk Protocol

Attention: David Raphael
K & L Gates
17 North Second Street
Harrisburg, PA 17101
US

Report Date: 08/12/2020
Sample Receipt Date:
RJ Lee Group Job No.: LLH901997-26
Authorization/P.O. No.:
Samples Received: 1
Client Job No.:

Method: EPA/R-93/600/116

TABLE 1 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos

Client Sample Number	RJLG Sample Number	Total Structures				-----Weight Percent----- Total Structures Analytical Sensitivity			
		Chry	Amph	Cleavage	Non Asbestos	Chry	Amph Asb	Amph Cleavage Fragment	Non Asbestos
#4 - DB-4	3158810	0	0	0	2	< 3.3E-6 3.3E-6	< 4.2E-6 4.2E-6	< 2.6E-6 2.6E-6	1.6E-2 2.5E-6

NOTES

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- Density of amphibole: 3.2×10^{-3} ng/ μ m³, density of chrysotile: 2.55×10^{-3} ng/ μ m³, density of non-asbestos: 3.00×10^{-3} ng/ μ m³.
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RJ Lee Group Job No: LLH901997-26
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/12/2020

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos 5 μm

Client Sample Number	RJLG Sample Number	-----Structures 5 μm-----				-----Weight Percent----- Structures 5 μm Analytical Sensitivity			
		Chry	Amph	Cleavage	Non-Asbestos	Chry	Asb	Cleavage Fragment	Non-Asbestos
#4 - DB-4	3158810	0	0	0	0	<u>< 3.3E-5</u> 3.3E-5	<u>< 4.2E-5</u> 4.2E-5	<u>< 2.6E-5</u> 2.6E-5	<u>< 2.5E-5</u> 2.5E-5

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- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2 * 10⁻³ ng/ μ m³, density of chrysotile: 2.55 * 10⁻³ ng/ μ m³, density of non-asbestos: 3.00 * 10⁻³ ng/ μ m³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
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RJ Lee Group, Inc.

RJ Lee Group Job No: LLH901997-26
Client Job No/Name:

Final Laboratory Report (cont'd)

Client: K & L Gates
Report Date: 08/12/2020

Client Sample Number	RJLG Sample Number	Material Used (gm)	Area Analyzed Total (mm ²)	Area Analyzed 5 μm (mm ²)	Effective Filter Area (mm ²)	Dilution Factor
#4 - DB-4	3158810	0.0003	0.30731	0.30731	1220	1.0

Authorized Signature: 
Ashleigh Sload, Scientist

NOTES

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- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
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RJL: LLH901997-26	3158810.HTA2	Microscope tem1200_2	Grid Openings	10
#4 - DB-4	K & L Gates	Magnification 21 KX	Asbestos	0.0
Wt: 0.0003 gm	Grid: 0.0088 mm ²	Acc. Voltage 120 KV	Asbestos >= 5µm	0.0
Dil: 1.	Filter Size: 47 mm	Operator: Jacquelyn Mershon	Nonasbestos	2.0
HQ45480		Cv = 0	Nonasbestos >= 5µm	0.0
			% Wt of largest asbestos structure	%

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1				NSD							
2				NSD							
3	1	2.8	0.8	Non-Asbestos		MgSiCaFe14931B		Image1	Diff1		CPX
4				NSD							
5				NSD							
6	1	1.7	0.56	Non-Asbestos		MgSiCaFe			X		CPX
7				NSD							
8				NSD							
9				NSD							
10				NSD							

8% Particulate

Analyst's Comments: 1200ii

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 7/13/2020 9:12:10 AM approve by Jacquelyn Mershon

Final Review: 8/12/20 4:42 PM approve by Bryan Bandli

RJL: LLH901997-26	3158810.HTA2	Microscope tem1200_2	Grid Openings	25
#4 - DB-4	K & L Gates	Magnification 10 KX	Asbestos	0.0
Wt: 0.0003 gm	Grid: 0.0088 mm ²	Acc. Voltage 120 KV	Nonasbestos	0.0
Dil: 1.	Filter Size: 47 mm	Operator: Jacquelyn Mershon	% Wt of largest asbestos	%
HQ45480		Cv = 0	structure	

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1				NSD							
2				NSD							
3				NSD							
4				NSD							
5				NSD							
6				NSD							
7				NSD							
8				NSD							
9				NSD							
10				NSD							
11				NSD							
12				NSD							
13				NSD							
14				NSD							
15				NSD							
16				NSD							
17				NSD							
18				NSD							
19				NSD							
20				NSD							
21				NSD							
22				NSD							
23				NSD							
24				NSD							
25				NSD							

8% Particulate

Analyst's Comments: 1200ii

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 7/13/2020 9:27:39 AM approve by Jacquelyn Mershon

Final Review: 8/12/20 4:42 PM approve by Bryan Bandli

Final Laboratory Report

TEM Bulk Protocol

Attention: David Raphael
K & L Gates
17 North Second Street
Harrisburg, PA 17101
US

Report Date: 08/12/2020
Sample Receipt Date:
RJ Lee Group Job No.: LLH901997-26
Authorization/P.O. No.:
Samples Received: 1
Client Job No.:

Method: ISO 22262-2

TABLE 1 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos

Client Sample Number	RJLG Sample Number	<u>Total Structures</u>				-----Weight Percent----- <u>Total Structures</u> Analytical Sensitivity			
		Chry	Amph	Cleavage	Non Asbestos	Chry	Amph Asb	Amph Cleavage Fragment	Non Asbestos
#4 - DB-4	3158810	0	0	0	2	<u>< 3.3E-6</u> 3.3E-6	<u>< 2.6E-6</u> 2.6E-6	<u>< 2.6E-6</u> 2.6E-6	<u>1.6E-2</u> 2.5E-6

NOTES

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2. Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
3. If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
4. Density of amphibole: 3.2×10^{-3} ng/ μ m³, density of chrysotile: 2.55×10^{-3} ng/ μ m³, density of non-asbestos: 3.00×10^{-3} ng/ μ m³.
5. Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
6. Samples will be held for 90 days and then disposed of per Federal regulations.
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RJ Lee Group Job No: LLH901997-26
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/12/2020

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos 5 μm

Client Sample Number	RJLG Sample Number	-----Structures 5 μm-----				-----Weight Percent----- Structures 5 μm Analytical Sensitivity			
		Chry	Amph	Cleavage	Non-Asbestos	Chry	Asb	Cleavage Fragment	Non-Asbestos
#4 - DB-4	3158810	0	0	0	0	<u>< 3.3E-5</u> 3.3E-5	<u>< 2.6E-5</u> 2.6E-5	<u>< 2.6E-5</u> 2.6E-5	<u>< 2.5E-5</u> 2.5E-5

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RJ Lee Group, Inc.

RJ Lee Group Job No: LLH901997-26
Client Job No/Name:

Final Laboratory Report (cont'd)

Client: K & L Gates
Report Date: 08/12/2020

Client Sample Number	RJLG Sample Number	Material Used (gm)	Area Analyzed Total (mm ²)	Area Analyzed 5 μm (mm ²)	Effective Filter Area (mm ²)	Dilution Factor
#4 - DB-4	3158810	0.0003	0.30731	0.30731	1220	1.0

Authorized Signature: 
Ashleigh Sload, Scientist

NOTES

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RJ Lee Group, Inc
LLH901997-26
3158810.HTA2

K & L Gates
#4 - DB-4

13-Jul-20

Air volume:
Area of collection filter:
Volume flowrate:
Level of analysis (chrysotile): NA
Level of analysis (amphibole): AZQ
Magnification used for structure counting:
Aspect ratio for fibre definition: 3:1
Mean dimension of grid openings: 0.00878032
Initials of analyst: JM
Number of grid openings examined: 35
Analytical sensitivity:
Number of primary asbestos structures: 0
Number of asbestos structures counted: 0
Number of asbestos structures >5 µm: 0
Number of fibres and bundles > 5 µm: 0
Number of PCM equivalent asbestos structures: 0
Number of PCM equivalent asbestos fibres: 0

TEM asbestos structure count					
Report Number:	LLH901997-26				
Sample Number:	3158810.HTA2		Sample Weight:	0.0003	
Sample Description:	#4 - DB-4		Filter area (mm ²):	1220	
			Magnification:	10/20 KX	
			Grid opening dimension (mm ²):	0.00878032	
Preparation date:	06/22/20	By:	RAM		
Analysis date:	07/13/20	By:	JM	Level of analysis (chrysotile)	NA
Computer entry date:	08/6/20	By:	MMK	Level of analysis (amphibole)	AZQ

Grid	Grid Opening	Structues		Identification	Structure type	Length (µm)	Width (µm)	Fibre Type	Comments
		primary	total						
1	H1								
	H3								
	H5			NAM		2.8	0.8	CPX	
	H7								
	H9								
	B1								
	B3								
	B5								
	B7								
	B9								
	D10								
	D8								
	D6								
	D4								
	D2								
	F1								
	F3								
	F7								
2	B2								
	B4								
	A6								
	B8								
	D9								
	D7								
	D5								
	D3								
	D1								
	F2								
	F4								
	F8								
	H1			NAM		1.7	0.56	CPX	
	H3								
	H5								
	H7								
	H9								

Final Laboratory Report

TEM Bulk Protocol

Attention: David Raphael
K & L Gates
17 North Second Street
Harrisburg, PA 17101
US

Report Date: 08/11/2020
Sample Receipt Date:
RJ Lee Group Job No.: LLH901997-26
Authorization/P.O. No.:
Samples Received: 1
Client Job No.:

Method: EPA/R-93/600/116

TABLE 1 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos

Client Sample Number	RJLG Sample Number	Total Structures				-----Weight Percent----- Total Structures Analytical Sensitivity			
		Chry	Amph	Cleavage	Non Asbestos	Chry	Amph Asb	Amph Cleavage Fragment	Non Asbestos
#1 - Hand Sample #1	3158811	0	0	48	0	< 3.3E-6 3.3E-6	< 4.2E-6 4.2E-6	4.6E-1 2.6E-6	< 2.5E-6 2.5E-6

NOTES

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RJ Lee Group Job No: LLH901997-26
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/11/2020

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos 5 µm

Client Sample Number	RJLG Sample Number	-----Structures 5 µm-----				-----Weight Percent----- Structures 5 µm Analytical Sensitivity			
		Chry	Amph	Cleavage	Non-Asbestos	Chry	Asb	Cleavage Fragment	Non-Asbestos
#1 - Hand Sample #1	3158811	0	0	8	0	<u>< 3.3E-5</u> 3.3E-5	<u>< 4.2E-5</u> 4.2E-5	<u>4.0E-1</u> 2.6E-5	<u>< 2.5E-5</u> 2.5E-5

NOTES

- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2×10^{-3} ng/µm³, density of chrysotile: 2.55×10^{-3} ng/µm³, density of non-asbestos: 3.00×10^{-3} ng/µm³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
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RJ Lee Group Job No: LLH901997-26
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/11/2020

Client Sample Number	RJLG Sample Number	Material Used (gm)	Area Analyzed Total (mm ²)	Area Analyzed 5 μm (mm ²)	Effective Filter Area (mm ²)	Dilution Factor
#1 - Hand Sample #1	3158811	0.0003	0.30731	0.30731	1220	1.0

Authorized Signature: 
 Ashleigh Sload, Scientist

NOTES

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- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2 * 10⁻³ ng/ μ m³, density of chrysotile: 2.55 * 10⁻³ ng/ μ m³, density of non-asbestos: 3.00 * 10⁻³ ng/ μ m³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
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RJL: LLH901997-26	3158811.HTA2	Microscope tem2000fx2	Grid Openings	10
#1 - Hand Sample #1	K & L Gates	Magnification 21 KX	Asbestos	0.0
Wt: 0.0003 gm	Grid: 0.0088 mm ²	Acc. Voltage 120 KV	Asbestos >= 5µm	0.0
Dil: 1.	Filter Size: 47 mm	Operator: Jon Swope	Nonasbestos	43.0
HQ45480		Cv = 0	Nonasbestos >= 5µm	3.0
			% Wt of largest asbestos structure	%

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1	1	5.8	0.45	Amphibole		MgSiCaFeAl	6474C	Image1	Diff1	Acti	Cle
1	2	2.8	0.3	Amphibole		MgSiCaFe		Image2	X	Acti	Cle
1	3	1.2	0.22	Amphibole		MgSiCaFe		Image3	X	Acti	Cle
2	1	1.5	0.3	Amphibole		MgSiCaFe		Image4	X	Acti	Cle
2	2	1.9	0.25	Amphibole		MgSiCaFe		Image5	X	Acti	Cle
2	3	1.1	0.12	Amphibole		MgSiCaFe		Image6	X	Acti	Cle
								Image7			
2	4	4.1	0.3	Amphibole		MgSiCaFeAl	6475C	Image8	Diff2	Acti	Cle
								Image9			
2	5	1.5	0.2	Amphibole		MgSiCaFe		Image10	X	Acti	Cle
2	6	1.1	0.15	Amphibole		MgSiCaFe		Image11	X	Acti	Cle
2	7	1.9	0.3	Amphibole		MgSiCaFe		Image12	X	Acti	Cle
3	1	2.3	0.3	Amphibole		MgSiCaFe		Image13	X	Acti	Cle
3	2	1.95	0.35	Amphibole		MgSiCaFe		Image14	X	Acti	Cle
3	3	1.2	0.18	Amphibole		MgSiCaFe		Image15	X	Acti	Cle
3	4	1.5	0.3	Amphibole		MgSiCaFe		Image16	X	Acti	Cle
3	5	1.55	0.2	Amphibole		MgSiCaFe		Image17	X	Acti	Cle
4	1	3.5	0.4	Amphibole		MgSiCaFe		Image18	X	Acti	Cle
4	2	2.3	0.3	Amphibole		MgSiCaFe		Image19	X	Acti	Cle
4	3	2.4	0.4	Amphibole		MgSiCaFe		Image20	X	Acti	Cle
4	4	2.1	0.25	Amphibole		MgSiCaFe		Image21	X	Acti	Cle
4	5	1.6	0.3	Amphibole		MgSiCaFe		Image22	X	Acti	Cle
4	6	1.6	0.3	Amphibole		MgSiCaFe		Image23	X	Acti	Cle
5	1	5.7	0.3	Amphibole		MgSiCaFeAl	6476C	Image24	Diff3	Acti	Cle
5	2	3.45	0.5	Amphibole		MgSiCaFe		Image25	X	Acti	Cle
5	3	15.5	1.15	Amphibole		MgSiCaFe		Image26	X	Acti	Cle
5	4	1	0.15	Amphibole		MgSiCaFe		Image31	X	Acti	Cle
5	5	1.25	0.2	Amphibole		MgSiCaFe		Image30	X	Acti	Cle
6	1	3.2	0.4	Amphibole		MgSiCaFe		Image32	X	Acti	Cle
6	2	2.8	0.5	Amphibole		MgSiCaFe		Image33	X	Acti	Cle
6	3	3.3	0.45	Amphibole		MgSiCaFe		Image34	X	Acti	Cle
6	4	2.8	0.5	Amphibole		MgSiCaFe		Image35	X	Acti	Cle
7	1	1.3	0.25	Amphibole		MgSiCaFe		Image36	X	Acti	Cle
7	2	3.6	0.4	Amphibole		MgSiCaFe		Image37	X	Acti	Cle
7	3	2.8	0.2	Amphibole		MgSiCaFe		Image38	X	Acti	Cle
8	1	1.55	0.3	Amphibole		MgSiCaFe		Image39	X	Acti	Cle
8	2	1.45	0.2	Amphibole		MgSiCaFeAl	6478C	Image40	Diff4	Acti	Cle
9	1	1.2	0.12	Amphibole		MgSiCaFe		Image41	X	Acti	Cle
9	2	4.4	0.18	Amphibole		MgSiCaFe		Image42	X	Acti	Cle
9	3	1.5	0.15	Amphibole		MgSiCaFe		Image43	X	Acti	Cle
9	4	1.45	0.25	Amphibole		MgSiCaFe		Image44	X	Acti	Cle
10	1	1.2	0.2	Amphibole		MgSiCaFe		Image45	X	Acti	Cle
10	2	2.5	0.12	Amphibole		MgSiCaFe		Image46	X	Acti	Cle
10	3	1.85	0.25	Amphibole		MgSiCaFe		Image47	X	Acti	Cle

RJL: LLH901997-26	3158811.HTA2	Microscope tem2000fx2	Grid Openings	10
#1 - Hand Sample #1	K & L Gates	Magnification 21 KX	Asbestos	0.0
Wt: 0.0003 gm	Grid: 0.0088 mm ²	Acc. Voltage 120 KV	Asbestos >= 5µm	0.0
Dil: 1.	Filter Size: 47 mm	Operator: Jon Swope	Nonasbestos	43.0
HQ45480		Cv = 0	Nonasbestos >= 5µm	3.0
			% Wt of largest asbestos structure	%

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
10	4	2.7	0.4	Amphibole		MgSiCaFe		Image48	X	Acti	Cle

10% Particulate

Analyst's Comments: analysis completed on the 2000i

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 7/20/2020 2:05:51 PM approve by Jon Swope

Final Review: 8/11/20 1:31 PM approve by Ashleigh Sload

RJL: LLH901997-26	3158811.HTA2	Microscope tem2000fx2	Grid Openings	25
#1 - Hand Sample #1	K & L Gates	Magnification 10 KX	Asbestos	0.0
Wt: 0.0003 gm	Grid: 0.0088 mm ²	Acc. Voltage 120 KV	Nonasbestos	5.0
Dil: 1.	Filter Size: 47 mm	Operator: Jon Swope	% Wt of largest asbestos structure	%
HQ45480		Cv = 0		

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1				NSD							
2				NSD							
3				NSD							
4				NSD							
5				NSD							
6	1	9.1	0.9	Amphibole		MgSiCaFeAl	16473C	Image1 Image2 Image3	Diff1	Acti	Cle
7				NSD							
8				NSD							
9				NSD							
10	1	14.8	1.8	Amphibole		MgSiCaFe		Image4	X	Acti	Cle
10	2	5.5	0.8	Amphibole		MgSiCaFe		Image5	X	Acti	Cle
11				NSD							
12				NSD							
13				NSD							
14	1	10.2	1.2	Amphibole		MgSiCaFe		Image7	X	Acti	Cle
15				NSD							
16				NSD							
17				NSD							
18				NSD							
19				NSD							
20				NSD							
21				NSD							
22				NSD							
23				NSD							
24				NSD							
25	1	8.9	1.2	Amphibole		MgSiCaFe		Image8	X	Acti	Cle

10% Particulate

Analyst's Comments: analysis was completed on the 2000i

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 7/17/2020 3:16:00 PM approve by Jon Swope

Final Review: 8/11/20 1:31 PM approve by Ashleigh Sload

Final Laboratory Report

TEM Bulk Protocol

Attention: David Raphael
K & L Gates
17 North Second Street
Harrisburg, PA 17101
US

Report Date: 08/11/2020
Sample Receipt Date:
RJ Lee Group Job No.: LLH901997-26
Authorization/P.O. No.:
Samples Received: 1
Client Job No.:

Method: ISO 22262-2

TABLE 1 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos

Client Sample Number	RJLG Sample Number	<u>Total Structures</u>				-----Weight Percent----- <u>Total Structures</u> Analytical Sensitivity			
		Chry	Amph	Cleavage	Non Asbestos	Chry	Amph Asb	Amph Cleavage Fragment	Non Asbestos
#1 - Hand Sample #1	3158811	0	0	48	0	< 3.3E-6 3.3E-6	< 2.6E-6 2.6E-6	4.6E-1 2.6E-6	< 2.5E-6 2.5E-6

NOTES

1. "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
2. Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
3. If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
4. Density of amphibole: 3.2×10^{-3} ng/ μ m³, density of chrysotile: 2.55×10^{-3} ng/ μ m³, density of non-asbestos: 3.00×10^{-3} ng/ μ m³.
5. Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
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RJ Lee Group Job No: LLH901997-26
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/11/2020

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos 5 µm

Client Sample Number	RJLG Sample Number	-----Structures 5 µm-----				-----Weight Percent----- Structures 5 µm Analytical Sensitivity Amphibole			
		Chry	Amph	Cleavage	Non-Asbestos	Chry	Asb	Cleavage Fragment	Non-Asbestos
#1 - Hand Sample #1	3158811	0	0	8	0	<u>< 3.3E-5</u> 3.3E-5	<u>< 2.6E-5</u> 2.6E-5	<u>4.0E-1</u> 2.6E-5	<u>< 2.5E-5</u> 2.5E-5

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RJ Lee Group, Inc.

RJ Lee Group Job No: LLH901997-26
Client Job No/Name:

Final Laboratory Report (cont'd)

Client: K & L Gates
Report Date: 08/11/2020

Client Sample Number	RJLG Sample Number	Material Used (gm)	Area Analyzed Total (mm ²)	Area Analyzed 5 μm (mm ²)	Effective Filter Area (mm ²)	Dilution Factor
#1 - Hand Sample #1	3158811	0.0003	0.30731	0.30731	1220	1.0

Authorized Signature: 
Ashleigh Sload, Scientist

NOTES

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- Density of amphibole: 3.2×10^{-3} ng/μm³, density of chrysotile: 2.55×10^{-3} ng/μm³, density of non-asbestos: 3.00×10^{-3} ng/μm³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
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RJ Lee Group, Inc
LLH901997-26
3158811.HTA2

K & L Gates
#1 - Hand Sample #1

20-Jul-20

Air volume:
Area of collection filter:
Volume flowrate:
Level of analysis (chrysotile): NA
Level of analysis (amphibole): AZQ
Magnification used for structure counting:
Aspect ratio for fibre definition: 3:1
Mean dimension of grid openings: 0.00878032
Initials of analyst: JS
Number of grid openings examined: 35
Analytical sensitivity:
Number of primary asbestos structures: 42
Number of asbestos structures counted: 42
Number of asbestos structures >5 µm: 6
Number of fibres and bundles > 5 µm: 5
Number of PCM equivalent asbestos structures: 8
Number of PCM equivalent asbestos fibres: 7

TEM asbestos structure count					
Report Number:	LLH901997-26			Sample Weight:	0.0003
Sample Number:	3158811.HTA2			Filter area (mm ²):	1220
Sample Description:	#1 - Hand Sample #1			Magnification:	10/20 KX
				Grid opening dimension (mm ²)	0.00878032
Preparation date:	06/22/20	By:	RAM		
Analysis date:	07/20/20	By:	JS	Level of analysis (chrysotile)	NA
Computer entry date:	08/7/20	By:	MMK	Level of analysis (amphibole)	AZQ

Grid	Grid Opening	Structures		Identification	Structure type	Length (µm)	Width (µm)	Fibre Type	Comments	
		primary	total							
1	B1			No Fibres						
	B3			No Fibres						
	B5			No Fibres						
	B7			No Fibres						
	B9			no Fibres						
	D9		1	1	AZQ	F	9.1	0.9	Actinolite	
	D7				No Fibres					
	D5				No Fibres					
	D3				No Fibres					
	D1		2	2	ADX	F	14.8	1.8	Actinolite	
			3	3	ADX	F	5.5	0.8	Actinolite	
	F1				No Fibres					
	F3				No Fibres					
	F7				No Fibres					
2	H1			AZQ		5.8	0.45	Actinolite	Not tabulated; touched top grid bar	
			4	4	ADX	F	2.8	0.3	Actinolite	
			5	5	ADX	F	1.2	0.22	Actinolite	
	H3		6	6	ADX	B	1.5	0.3	Actinolite	
			7	7	ADX	F	1.9	0.25	Actinolite	
			8	8	ADX	F	2.2	0.12	Actinolite	
			9	9	AZQ	F	4.1	0.3	Actinolite	
			10	10	ADX	F	1.5	0.2	Actinolite	
			11	11	ADX	F	1.1	0.15	Actinolite	
			12	12	ADX	F	1.9	0.3	Actinolite	
	H5		13	13	ADX	F	2.3	0.3	Actinolite	
			14	14	ADX	F	1.95	0.35	Actinolite	
			15	15	ADX	F	1.2	0.18	Actinolite	
			16	16	ADX	F	1.5	0.3	Actinolite	
		17	17	ADX	F	1.55	0.2	Actinolite		
H7		18	18	ADX	F	3.5	0.4	Actinolite		
		19	19	ADX	F	2.3	0.3	Actinolite		
		20	20	ADX	F	2.4	0.4	Actinolite		
		21	21	ADX	F	2.1	0.25	Actinolite		
		22	22	ADX	F	1.6	0.3	Actinolite		
		23	23	ADX	F	1.6	0.3	Actinolite		
H10		24	24	AZQ	F	5.7	0.3	Actinolite		
		25	25	ADX	F	3.45	0.5	Actinolite		
		26	26	ADX	F	15.5	1.15	Actinolite		
		27	27	ADX	F	1	0.15	Actinolite		
		28	28	ADX	F	1.25	0.2	Actinolite		

TEM asbestos structure count					
Report Number:	LLH901997-26				
Sample Number:	3158811.HTA2		Sample Weight:	0.0003	
Sample Description:	#1 - Hand Sample #1		Filter area (mm ²):	1220	
			Magnification:	10/20 KX	
			Grid opening dimension (mm ²)	0.00878032	
Preparation date:	06/22/20	By:	RAM		
Analysis date:	07/20/20	By:	JS		
Computer entry date:	08/7/20	By:	MMK		
			Level of analysis (chrysotile)	NA	
			Level of analysis (amphibole)	AZQ	

Grid	Grid Opening	Structures		Identification	Structure type	Length (µm)	Width (µm)	Fibre Type	Comments
		primary	total						
	C1	29	29	ADX	F	10.2	1.2	Actinolite	
	C3			No Fibres					
	C5			No Fibres					
	C7			No Fibres					
	C9			No Fibres					
	E9			No Fibres					
	E7			No Fibres					
	E4			No Fibres					
	E2			No Fibres					
	G1			No Fibres					
	G3			No Fibres					
	G5			ADX	F	8.9	1.2	Actinolite	
3	H1	30	30	ADX	F	3.2	0.4	Actinolite	
		31	31	ADX	F	2.8	0.5	Actinolite	
		32	32	ADX	F	3.3	0.45	Actinolite	
		33	33	ADX	F	2.8	0.5	Actinolite	
	H3	34	34	ADX	F	1.3	0.25	Actinolite	
		35	35	ADX	F	3.6	0.4	Actinolite	
		36	36	ADX	F	2.8	0.2	Actinolite	
	H5	37	37	ADX	F	1.55	0.3	Actinolite	
		38	38	AZQ	F	1.45	0.2	Actinolite	
	H7	39	39	ADX	F	1.2	0.12	Actinolite	
		40	40	ADX	F	5.9	0.18	Actinolite	
		41	41	ADX	F	1.45	0.25	Actinolite	
		42	42	ADX	F	1.2	0.2	Actinolite	
		43	43	ADX	F	2.5	0.12	Actinolite	
		44	44	ADX	F	1.85	0.25	Actinolite	
		45	45	ADX	F	2.7	0.4	Actinolite	

Final Laboratory Report

TEM Bulk Protocol

Attention: David Raphael
K & L Gates
17 North Second Street
Harrisburg, PA 17101
US

Report Date: 08/11/2020
Sample Receipt Date:
RJ Lee Group Job No.: LLH901997-26
Authorization/P.O. No.:
Samples Received: 1
Client Job No.:

Method: EPA/R-93/600/116

TABLE 1 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos

Client Sample Number	RJLG Sample Number	<u>Total Structures</u>				-----Weight Percent----- <u>Total Structures</u> Analytical Sensitivity			
		Chry	Amph	Cleavage	Non Asbestos	Chry	Amph Asb	Amph Cleavage Fragment	Non Asbestos
#2 - Hand Sample #2	3158812	0	18	58	0	<u>< 5.0E-6</u> 5.0E-6	<u>2.5E-2</u> 6.2E-6	<u>2.1E-1</u> 4.0E-6	<u>< 3.7E-6</u> 3.7E-6

NOTES

1. "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
2. Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
3. If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
4. Density of amphibole: 3.2×10^{-3} ng/ μ m³, density of chrysotile: 2.55×10^{-3} ng/ μ m³, density of non-asbestos: 3.00×10^{-3} ng/ μ m³.
5. Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
6. Samples will be held for 90 days and then disposed of per Federal regulations.
7. These results are submitted pursuant to RJ Lee Group'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 these results are used or interpreted.

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RJ Lee Group Job No: LLH901997-26
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/11/2020

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos 5 μm

Client Sample Number	RJLG Sample Number	-----Structures 5 μm-----				-----Weight Percent----- Structures 5 μm Analytical Sensitivity			
		Chry	Amph	Cleavage	Non-Asbestos	Amphibole			
						Chry	Asb	Cleavage Fragment	Non-Asbestos
#2 - Hand Sample #2	3158812	0	5	6	0	<u>< 5.0E-5</u> 5.0E-5	<u>1.3E-2</u> 6.2E-5	<u>8.7E-2</u> 4.0E-5	<u>< 3.7E-5</u> 3.7E-5

NOTES

- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2 * 10⁻³ ng/ μ m³, density of chrysotile: 2.55 * 10⁻³ ng/ μ m³, density of non-asbestos: 3.00 * 10⁻³ ng/ μ m³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
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RJ Lee Group, Inc.

RJ Lee Group Job No: LLH901997-26
Client Job No/Name:

Final Laboratory Report (cont'd)

Client: K & L Gates
Report Date: 08/11/2020

Client Sample Number	RJLG Sample Number	Material Used (gm)	Area Analyzed Total (mm ²)	Area Analyzed 5 μm (mm ²)	Effective Filter Area (mm ²)	Dilution Factor
#2 - Hand Sample #2	3158812	0.0002	0.30731	0.30731	1220	1.0

Authorized Signature: 
Ashleigh Sload, Scientist

NOTES

- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2×10^{-3} ng/μm³, density of chrysotile: 2.55×10^{-3} ng/μm³, density of non-asbestos: 3.00×10^{-3} ng/μm³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
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RJL: LLH901997-26	3158812.HTA2	Microscope tem2000fx2	Grid Openings	10
#2 - Hand Sample #2	K & L Gates	Magnification 20 KX	Asbestos	14.0
Wt: 0.0002 gm	Grid: 0.0088 mm ²	Acc. Voltage 120 KV	Asbestos >= 5µm	1.0
Dil: 1.	Filter Size: 47 mm	Operator: Jon Swope	Nonasbestos	55.0
HQ45480		Cv = 1.24	Nonasbestos >= 5µm	3.0
			% Wt of largest asbestos structure	%

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1	1	3.55	0.55	Amphibole		MgSiCaFe	19817B	Image1	Diff1 Diff2	Acti	Cle
1	2	1.6	0.22	Amphibole		MgSiCaFe		Image2	X	Acti	Cle
1	3	1.7	0.3	Amphibole		MgSiCaFe		Image3	X	Acti	Cle
1	4	3.4	0.6	Amphibole		MgSiCaFe		Image4	X	Acti	Cle
1	5	3.1	0.28	Amphibole		MgSiCaFe		Image5	X	Acti	Cle
1	6	4.35	0.26	Amphibole		MgSiCaFe		Image6	X	Acti	Cle
1	7	0.75	0.12	Amphibole		MgSiCaFe		Image7	X	Acti	Cle
2	1	2.1	0.35	Amphibole		MgSiCaFe		Image8	X	Acti	Cle
2	2	3.7	0.25	Amphibole		MgSiCaFe		Image9	X	Acti	Cle
2	3	1.3	0.12	Amphibole		MgSiCaFe		Image10	X	Acti	Cle
2	4	1.65	0.25	Amphibole		MgSiCaFe	16442C	Image11	Diff3	Acti	Cle
2	5	1.15	0.15	Amphibole		MgSiCaFe		Image12	X	Acti	Cle
2	6	2.3	0.22	Amphibole	F	MgSiCaFe		Image13	X	Acti	Asb
2	7	2.1	0.18	Amphibole		MgSiCaFe		Image14	X	Acti	Cle
2	8	0.98	0.12	Amphibole		MgSiCaFe		Image15	X	Acti	Cle
2	9	1.45	0.1	Amphibole		MgSiCaFe		Image16	X	Acti	Cle
2	10	2.8	0.5	Amphibole		MgSiCaFe		Image17	X	Acti	Cle
2	11	3.1	0.25	Amphibole		MgSiCaFe		Image18	X	Acti	Cle
3	1	1.15	0.22	Amphibole		MgSiCaFe		Image19	X	Acti	Cle
3	2	0.7	0.1	Amphibole		MgSiCaFe		Image20	X	Acti	Cle
3	3	1.45	0.1	Amphibole		MgSiCaFe		Image21	X	Acti	Cle
3	4	1.4	0.2	Amphibole		MgSiCaFe	16443C	Image22	Diff4	Acti	Cle
3	5	2.1	0.3	Amphibole		MgSiCaFe		Image23	X	Acti	Cle
3	6	2.3	0.1	Amphibole	F	MgSiCaFe		Image24	X	Acti	Asb
3	7	2.6	0.25	Amphibole		MgSiCaFe		Image25	X	Acti	Cle
4	1	2.7	0.22	Amphibole		MgSiCaFe		Image26	X	Acti	Cle
4	2	2.3	0.15	Amphibole		MgSiCaFe		Image27	X	Acti	Cle
4	3	3.45	0.45	Amphibole		MgSiCaFe		Image28	X	Acti	Cle
4	4	4.15	0.22	Amphibole	F	MgSiCaFe		Image29	X	Acti	Asb
4	5	1.15	0.18	Amphibole		MgSiCaFe		Image30	X	Acti	Cle
4	6	2.55	0.4	Amphibole		MgSiCaFe	16444C	Image31	Diff5	Acti	Cle
4	7	3.85	0.3	Amphibole		MgSiCaFe		Image32	X	Acti	Cle
4	8	3.25	0.4	Amphibole		MgSiCaFe		Image33	X	Acti	Cle
4	9	1.35	0.18	Amphibole		MgSiCaFe		Image34	X	Acti	Cle
4	10	6.5	0.1	Amphibole	F	MgSiCaFe	16445C	Image35	Diff6	Acti	Asb
4	11	2.2	0.22	Amphibole		MgSiCaFe		Image36	X	Acti	Cle
5	1	2.55	0.12	Amphibole	F	MgSiCaFe		Image37	X	Acti	Asb
5	2	4.4	0.22	Amphibole		MgSiCaFe		Image38	X	Acti	Cle
5	3	1.15	0.05	Amphibole	F	MgSiCaFe		Image39	X	Acti	Asb
5	4	2.8	0.1	Amphibole	F	MgSiCaFe	16446C	Image40	Diff7	Acti	Asb
5	5	8.1	0.4	Amphibole		MgSiCaFe		Image41	X	Acti	Cle
6	1	1.05	0.1	Amphibole		MgSiCaFe		Image42	X	Acti	Cle
6	2	1.35	0.1	Amphibole		MgSiCaFe		Image43	X	Acti	Cle

RJ Lee Group, Inc.
TEM Count Sheet

RJL: LLH901997-26	3158812.HTA2	Microscope tem2000fx2	Grid Openings	10
#2 - Hand Sample #2	K & L Gates	Magnification 20 KX	Asbestos	14.0
Wt: 0.0002 gm	Grid: 0.0088 mm ²	Acc. Voltage 120 KV	Asbestos >= 5µm	1.0
Dil: 1.	Filter Size: 47 mm	Operator: Jon Swope	Nonasbestos	55.0
HQ45480		Cv = 1.24	Nonasbestos >= 5µm	3.0
			% Wt of largest asbestos structure	%

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
6	3	1.85	0.08	Amphibole	F	MgSiCaFe		Image44	X	Acti	Asb
6	4	4.2	0.25	Amphibole		MgSiCaFe		Image45	X	Acti	Cle
6	5	2.9	0.2	Amphibole	F	MgSiCaFe		Image46	X	Acti	Asb
7	1	3.9	0.6	Amphibole		MgSiCaFe		Image47	X	Acti	Cle
7	2	2.1	0.3	Amphibole		MgSiCaFe		Image48	X	Acti	Cle
7	3	2.1	0.2	Amphibole		MgSiCaFe		Image49	X	Acti	Cle
7	4	2.3	0.3	Amphibole		MgSiCaFe	16448C	Image50	Diff8	Acti	Cle
7	5	3.8	0.22	Amphibole		MgSiCaFe		Image51	X	Acti	Cle
7	6	2.1	0.22	Amphibole		MgSiCaFe		Image52	X	Acti	Cle
8	1	2.35	0.2	Amphibole		MgSiCaFe		Image53	X	Acti	Cle
8	2	1.9	0.2	Amphibole		MgSiCaFe		Image54	X	Acti	Cle
8	3	1.15	0.2	Amphibole		MgSiCaFe		Image55	X	Acti	Cle
8	4	5.75	0.45	Amphibole		MgSiCaFe		Image56	X	Acti	Cle
8	5	2.3	0.25	Amphibole		MgSiCaFe		Image57	X	Acti	Cle
8	6	2.4	0.25	Amphibole		MgSiCaFe		Image58	X	Acti	Cle
9	1	3.7	0.1	Amphibole	F	MgSiCaFe		Image59	X	Acti	Asb
9	2	2.5	0.15	Amphibole	F	MgSiCaFe		Image60	X	Acti	Asb
9	3	2.7	0.08	Amphibole	F	MgSiCaFe	16449C	Image61	Diff10	Acti	Asb
9	4	5.7	0.7	Amphibole		MgSiCaFe		Image62	X	Acti	Cle
9	5	0.7	0.1	Amphibole		MgSiCaFe		Image64	X	Acti	Cle
9	6	2.8	0.45	Amphibole		MgSiCaFe		Image65	X	Acti	Cle
10	1	2.2	0.05	Amphibole	F	MgSiCaFe		Image66	X	Acti	Asb
10	2	1.8	0.2	Amphibole		MgSiCaFe		Image67	X	Acti	Cle
10	3	1.2	0.18	Amphibole		MgSiCaFe		Image68	X	Acti	Cle
10	4	2.4	0.12	Amphibole	F	MgSiCaFe		Image69	X	Acti	Asb
10	5	2.5	0.22	Amphibole		MgSiCaFe		Image70	X	Acti	Cle

6% Particulate

Analyst's Comments: field one was completed on the 1200ii, fields 2-10 were completed on the 2000i.

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 7/15/2020 8:39:53 AM approve by Jon Swope

Final Review: 8/11/20 1:39 PM approve by Ashleigh Sload

RJL: LLH901997-26	3158812.HTA2	Microscope tem2000fx1	Grid Openings	25
#2 - Hand Sample #2	K & L Gates	Magnification 10 KX	Asbestos	4.0
Wt: 0.0002 gm	Grid: 0.0088 mm ²	Acc. Voltage 120 KV	Nonasbestos	3.0
Dil: 1.	Filter Size: 47 mm	Operator: Jon Swope	% Wt of largest asbestos structure	%
HQ45480		Cv = 0.134		

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1				NSD							
2	1	7.6	0.3	Amphibole	B	MgSiCaFe16447C		Image1	Diff1	Acti	Asb
3	1	6.3	0.45	Amphibole		MgSiCaFe		Image2	X	Acti	Cle
4				NSD							
5				NSD							
6				NSD							
7				NSD							
8	1	8.9	0.55	Amphibole		MgSiCaFe		Image3	X	Acti	Cle
9				NSD							
10				NSD							
11				NSD							
12				NSD							
13				NSD							
14	1	7.2	0.3	Amphibole	B	MgSiCaFe		Image4	X	Acti	Asb
15				NSD							
16				NSD							
17				NSD							
18				NSD							
19				NSD							
20				NSD							
21				NSD							
22	1	9.1	0.1	Amphibole	F	MgSiCaFe		Image5	X	Acti	Asb
23	1	8.7	0.2	Amphibole	F	MgSiCaFe		Image6	X	Acti	Asb
24				NSD							
25	1	9.3	0.55	Amphibole		MgSiCaFe		Image7	X	Acti	Cle

6% Particulate

Analyst's Comments: N/A

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 7/15/2020 12:16:06 PM approve by Jon Swope

Final Review: 8/11/20 1:39 PM approve by Ashleigh Sload

Final Laboratory Report

TEM Bulk Protocol

Attention: David Raphael
K & L Gates
17 North Second Street
Harrisburg, PA 17101
US

Report Date: 08/11/2020
Sample Receipt Date:
RJ Lee Group Job No.: LLH901997-26
Authorization/P.O. No.:
Samples Received: 1
Client Job No.:

Method: ISO 22262-2

TABLE 1 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos

Client Sample Number	RJLG Sample Number	Total Structures				-----Weight Percent----- Total Structures Analytical Sensitivity			
		Chry	Amph	Cleavage	Non Asbestos	Chry	Amph Asb	Amph Cleavage Fragment	Non Asbestos
#2 - Hand Sample #2	3158812	0	18	58	0	< 5.0E-6 5.0E-6	1.6E-2 4.0E-6	2.1E-1 4.0E-6	< 3.7E-6 3.7E-6

NOTES

- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2×10^{-3} ng/ μ m³, density of chrysotile: 2.55×10^{-3} ng/ μ m³, density of non-asbestos: 3.00×10^{-3} ng/ μ m³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
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RJ Lee Group Job No: LLH901997-26
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/11/2020

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos 5 μm

Client Sample Number	RJLG Sample Number	-----Structures 5 μm-----				-----Weight Percent----- Structures 5 μm Analytical Sensitivity			
		Chry	Amph	Cleavage	Non-Asbestos	Amphibole			
						Chry	Asb	Cleavage Fragment	Non-Asbestos
#2 - Hand Sample #2	3158812	0	5	6	0	<u>< 5.0E-5</u> 5.0E-5	<u>8.3E-3</u> 4.0E-5	<u>8.7E-2</u> 4.0E-5	<u>< 3.7E-5</u> 3.7E-5

NOTES

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- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2 * 10⁻³ ng/ μ m³, density of chrysotile: 2.55 * 10⁻³ ng/ μ m³, density of non-asbestos: 3.00 * 10⁻³ ng/ μ m³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
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RJ Lee Group, Inc.

RJ Lee Group Job No: LLH901997-26
Client Job No/Name:

Final Laboratory Report (cont'd)

Client: K & L Gates
Report Date: 08/11/2020

Client Sample Number	RJLG Sample Number	Material Used (gm)	Area Analyzed Total (mm ²)	Area Analyzed 5 μm (mm ²)	Effective Filter Area (mm ²)	Dilution Factor
#2 - Hand Sample #2	3158812	0.0002	0.30731	0.30731	1220	1.0

Authorized Signature: 
Ashleigh Sload, Scientist

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- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2×10^{-3} ng/μm³, density of chrysotile: 2.55×10^{-3} ng/μm³, density of non-asbestos: 3.00×10^{-3} ng/μm³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
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RJ Lee Group, Inc
LLH901997-26
3158812.HTA2

K & L Gates
#2 - Hand Sample #2

13-Jul-20

Air volume:
Area of collection filter:
Volume flowrate:
Level of analysis (chrysotile): NA
Level of analysis (amphibole): AZQ
Magnification used for structure counting:
Aspect ratio for fibre definition: 3:1
Mean dimension of grid openings: 0.00878032
Initials of analyst: JS
Number of grid openings examined: 35
Analytical sensitivity:
Number of primary asbestos structures: 74
Number of asbestos structures counted: 76
Number of asbestos structures >5 µm: 12
Number of fibres and bundles > 5 µm: 11
Number of PCM equivalent asbestos structures: 9
Number of PCM equivalent asbestos fibres: 8

TEM asbestos structure count					
Report Number:	LLH901997-26				
Sample Number:	3158812.HTA2			Sample Weight:	0.0002
Sample Description:	#2 - Hand Sample #2			Filter area (mm2):	1220
				Magnification:	10/20 KX
				Grid opening dimension (mm2)	0.00878032
Preparation date:	06/22/20	By:	RAM		
Analysis date:	07/13/20	By:	JS	Level of analysis (chrysotile)	NA
Computer entry date:	08/7/20	By:	MMK	Level of analysis (amphibole)	AZQ

Grid	Grid Opening	Structures		Identification	Structure type	Length (µm)	Width (µm)	Fibre Type	Comments
		primary	total						
1	H1	1	1	AZZQ	F	3.55	0.55	Actinolite	
		2	2	ADX	F	1.6	0.22	Actinolite	
		3	3	ADX	F	1.7	0.3	Actinolite	
		4		ADX	CD20	4	3		
		5		ADX	CF	3.4	0.6	Actinolite	
		6		ADX	CF	3.1	0.28	Actinolite	
		7		ADX	F	4.35	0.26	Actinolite	
	H3	8	8	ADX	F	0.75	0.12	Actinolite	
		9	9	ADX	MC+0	2.1	0.35	Actinolite	
		10	10	ADX	F	3.7	0.25	Actinolite	
		11	11	ADX	F	1.3	0.12	Actinolite	
		12	12	AZQ	F	1.65	0.25	Actinolite	
		13	13	ADX	F	1.15	0.15	Actinolite	
		14	14	ADX	F	2.3	0.22	Actinolite	
		15	15	ADX	F	2.1	0.18	Actinolite	
		16	16	ADX	F	0.98	0.12	Actinolite	
		17	17	ADX	F	1.45	0.1	Actinolite	
H5	18	18	ADX	F	2.8	0.5	Actinolite		
	19	19	ADX	F	3.1	0.25	Actinolite		
	20	20	ADX	F	1.15	0.22	Actinolite		
	21	21	ADX	F	0.7	0.1	Actinolite		
	22	22	ADX	F	1.45	0.1	Actinolite		
	23	23	ADX	F	1.4	0.2	Actinolite		
	24	24	ADX	F	2.1	0.3	Actinolite		
	25	25	ADX	F	2.3	0.1	Actinolite		
H7	26	26	ADX	F	2.6	0.25	Actinolite		
	27	27	ADX	F	2.7	0.22	Actinolite		
	28	28	ADX	F	2.3	0.15	Actinolite		
	29	29	ADX	F	3.45	0.45	Actinolite		
	30	30	ADX	F	4.15	0.22	Actinolite		
	31	31	ADX	F	1.15	0.18	Actinolite		
	32	32	AZQ	F	2.55	0.4	Actinolite		
	33		ADX	MD20	8.9	2.1			
	34		ADX	MF	3.85	0.3	Actinolite		
	35		ADX	MF	3.25	0.4	Actinolite		
H10	36	36	ADX	F	1.35	0.18	Actinolite		
	37	37	AZQ	F	6.5	0.1	Actinolite		
	38	38	ADX	F	2.2	0.22	Actinolite		
	39	39	ADX	F	2.55	0.12	Actinolite		
	40	40	ADX	F	4.4	0.22	Actinolite		
	41	41	ADX	F	1.15	0.05	Actinolite		
	42	42	AZQ	F	2.8	0.1	Actinolite		
		43	43	ADX	F	8.1	0.4	Actinolite	

TEM asbestos structure count					
Report Number:	LLH901997-26			Sample Weight:	0.0002
Sample Number:	3158812.HTA2			Filter area (mm ²):	1220
Sample Description:	#2 - Hand Sample #2			Magnification:	10/20 KX
				Grid opening dimension (mm ²)	0.00878032
Preparation date:	06/22/20	By:	RAM		
Analysis date:	07/13/20	By:	JS	Level of analysis (chrysotile)	NA
Computer entry date:	08/7/20	By:	MMK	Level of analysis (amphibole)	AZQ

Grid	Grid Opening	Structures		Identification	Structure type	Length (µm)	Width (µm)	Fibre Type	Comments
		primary	total						
	B1			No Fibres					
	B3	41	43	AZQ	F	7.6	0.3	Actinolite	
	B5	42	44	ADX	F	6.3	0.45	Actinolite	
	B7			No Fibres					
	B9			No Fibres					
	D9			No Fibres					
	D7			No Fibres					
	D5	43	45	ADX	F	8.9	0.55	Actinolite	
	D3			No Fibres					
	D1			No Fibres					
	F1			No Fibres					
	F3			No Fibres					
	F7			No Fibres					
2	B2	44	46	ADX	F	7.2	0.3	Actinolite	
	B4								
	B6								
	B8								
	B10								
	D10								
	D8								
	D6								
	D4	45	47	ADX	F	9.1	0.1	Actinolite	
	D2	46	48	ADX	F	8.7	0.2	Actinolite	
	F2								
	F4	47	49	ADX	F	9.3	0.55	Actinolite	A fiber <5µm crosses this structure but was not count per our lo mag analysis counting rules
	H1	48	50	ADX	F	1.05	0.1	Actinolite	
		49	51	ADX	F	1.35	0.1	Actinolite	
		50	52	ADX	F	1.85	0.08	Actinolite	
		51	53	ADX	F	4.2	0.25	Actinolite	
		52	54	ADX	F	2.9	0.2	Actinolite	
	H3	53	55	ADX	F	3.9	0.6	Actinolite	
		54	56	ADX	F	2.1	0.3	Actinolite	
		55	57	ADX	F	2.1	0.2	Actinolite	

TEM asbestos structure count					
Report Number:	LLH901997-26				
Sample Number:	3158812.HTA2			Sample Weight:	0.0002
Sample Description:	#2 - Hand Sample #2			Filter area (mm ²):	1220
				Magnification:	10/20 KX
				Grid opening dimension (mm ²)	0.00878032
Preparation date:	06/22/20	By:	RAM		
Analysis date:	07/13/20	By:	JS	Level of analysis (chrysotile)	NA
Computer entry date:	08/7/20	By:	MMK	Level of analysis (amphibole)	AZQ

Grid	Grid Opening	Structures		Identification	Structure type	Length (µm)	Width (µm)	Fibre Type	Comments
		primary	total						
		56	58	AZQ	F	2.3	0.3	Actinolite	
		57	59	ADX	F	3.8	0.22	Actinolite	
		58	60	ADX	F	2.1	0.22	Actinolite	
	H5	59	61	ADX	F	2.35	0.2	Actinolite	
		60	62	ADX	F	1.9	0.2	Actinolite	
		61	63	ADX	F	1.15	0.2	Actinolite	
		62	64	ADX	F	5.75	0.45	Actinolite	
		63	65	ADX	F	2.3	0.25	Actinolite	
		64	66	ADX	F	2.4	0.25	Actinolite	
	H7	65	67	ADX	F	3.7	0.1	Actinolite	
		66	68	ADX	F	2.5	0.15	Actinolite	
		67	69	AZQ	F	2.7	0.08	Actinolite	
		68	70	ADX	F	5.7	0.7	Actinolite	
		69	71	ADX	F	0.7	0.1	Actinolite	
		70	72	ADX	F	2.8	0.45	Actinolite	
	H9	71	73	ADX	F	2.2	0.05	Actinolite	
		72	74	ADX	F	1.8	0.2	Actinolite	
		73	75	ADX	F	1.2	0.18	Actinolite	
		74	76	ADX	F	2.4	0.12	Actinolite	
		75	77	ADX	F	2.5	0.22	Actinolite	

Final Laboratory Report

TEM Bulk Protocol

Attention: David Raphael
K & L Gates
17 North Second Street
Harrisburg, PA 17101
US

Report Date: 08/11/2020
Sample Receipt Date:
RJ Lee Group Job No.: LLH901997-26
Authorization/P.O. No.:
Samples Received: 1
Client Job No.:

Method: EPA/R-93/600/116

TABLE 1 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos

Client Sample Number	RJLG Sample Number	<u>Total Structures</u>				-----Weight Percent----- <u>Total Structures</u> Analytical Sensitivity			
		Chry	Amph	Cleavage	Non Asbestos	Chry	Amph Asb	Amph Cleavage Fragment	Non Asbestos
#3 - Vein 7	3158813	0	69	80	0	<u>< 2.1E-5</u> 2.1E-5	<u>1.3E1</u> 2.6E-5	<u>5.5E0</u> 1.7E-5	<u>< 1.6E-5</u> 1.6E-5

NOTES

1. "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
2. Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
3. If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
4. Density of amphibole: 3.2×10^{-3} ng/ μ m³, density of chrysotile: 2.55×10^{-3} ng/ μ m³, density of non-asbestos: 3.00×10^{-3} ng/ μ m³.
5. Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
6. Samples will be held for 90 days and then disposed of per Federal regulations.
7. These results are submitted pursuant to RJ Lee Group'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 these results are used or interpreted.

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These results are submitted pursuant to RJ Lee Group's current terms and conditions of sale, including the company's standard warranty and limiting provisions and 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, RJ Lee Group will store the samples for a period of ninety (90) days before discarding. A shipping and handling fee will be assessed for the return of any sample.

RJ Lee Group Job No: LLH901997-26
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/11/2020

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos 5 μm

Client Sample Number	RJLG Sample Number	-----Structures 5 μm-----				-----Weight Percent----- Structures 5 μm Analytical Sensitivity			
		Chry	Amph	Cleavage	Non-Asbestos	Amphibole			
						Chry	Asb	Cleavage Fragment	Non-Asbestos
#3 - Vein 7	3158813	0	39	19	0	<u>< 2.1E-4</u> 2.1E-4	<u>1.2E1</u> 2.6E-4	<u>3.7E0</u> 1.7E-4	<u>< 1.6E-4</u> 1.6E-4

NOTES

- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2 * 10⁻³ ng/ μ m³, density of chrysotile: 2.55 * 10⁻³ ng/ μ m³, density of non-asbestos: 3.00 * 10⁻³ ng/ μ m³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
- These results are submitted pursuant to RJ Lee Group'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 these results are used or interpreted.

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RJ Lee Group, Inc.

RJ Lee Group Job No: LLH901997-26
Client Job No/Name:

Final Laboratory Report (cont'd)

Client: K & L Gates
Report Date: 08/11/2020

Client Sample Number	RJLG Sample Number	Material Used (gm)	Area Analyzed Total (mm ²)	Area Analyzed 5 μm (mm ²)	Effective Filter Area (mm ²)	Dilution Factor
#3 - Vein 7	3158813	0.00006	0.25350	0.25350	1220	1.0

Authorized Signature: 
Ashleigh Sload, Scientist

NOTES

- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2×10^{-3} ng/μm³, density of chrysotile: 2.55×10^{-3} ng/μm³, density of non-asbestos: 3.00×10^{-3} ng/μm³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
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RJL: LLH901997-26	3158813.HTA4	Microscope tem2000fx1	Grid Openings	4
#3 - Vein 7	K & L Gates	Magnification 21 KX	Asbestos	40.0
Wt: 0.0001 gm	Grid: 0.0087 mm ²	Acc. Voltage 120 KV	Asbestos >= 5µm	10.0
Dil: 1.	Filter Size: 47 mm	Operator: Jon Swope	Nonasbestos	65.0
HQ45555		Cv = 2.5	Nonasbestos >= 5µm	4.0
			% Wt of largest asbestos structure	%

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1	1	2.2	0.1	Amphibole	F	MgSiCaFe		Image1	X	Acti	Asb
1	2	8.1	0.3	Amphibole	F	MgSiCaFe	16479C	Image2 Image3	Diff1	Acti	Asb
1	3	1.5	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
1	4	1.2	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
1	5	1.2	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
1	6	2.7	0.1	Amphibole	F	MgSiCaFe			X	Acti	Asb
1	7	2.4	0.1	Amphibole	F	MgSiCaFe			X	Acti	Asb
1	8	3.1	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
1	9	3.2	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
1	10	4.5	0.15	Amphibole	F	MgSiCaFe			X	Acti	Asb
1	11	2.2	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
1	12	2.7	0.4	Amphibole		MgSiCaFe			X	Acti	Cle
1	13	3.2	0.4	Amphibole		MgSiCaFe			X	Acti	Cle
1	14	0.9	0.15	Amphibole		MgSiCaFe			X	Acti	Cle
1	15	1	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
1	16	4.2	0.1	Amphibole	F	MgSiCaFe	16480C	Image4	Diff2	Acti	Asb
1	17	1.2	0.18	Amphibole		MgSiCaFe			X	Acti	Cle
1	18	1.8	0.22	Amphibole		MgSiCaFe			X	Acti	Cle
1	19	1.5	0.05	Amphibole	F	MgSiCaFe			X	Acti	Asb
1	20	12.2	0.1	Amphibole	B	MgSiCaFe			X	Acti	Asb
1	21	1.7	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
1	22	2.1	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
1	23	3.2	0.05	Amphibole	F	MgSiCaFe			X	Acti	Asb
1	24	1.3	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
1	25	4.1	0.1	Amphibole	F	MgSiCaFe			X	Acti	Asb
1	26	3.1	0.1	Amphibole	F	MgSiCaFe			X	Acti	Asb
1	27	1.9	0.05	Amphibole	F	MgSiCaFe			X	Acti	Asb
1	28	2.6	0.4	Amphibole		MgSiCaFe			X	Acti	Cle
2	1	1.5	0.1	Amphibole	F	MgSiCaFe			X	Acti	Asb
2	2	1.7	0.1	Amphibole	F	MgSiCaFe			X	Acti	Asb
2	3	1.3	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
2	4	2.7	0.25	Amphibole		MgSiCaFe	16481C	Image5	Diff3	Acti	Cle
2	5	1.1	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
2	6	2.1	0.1	Amphibole	F	MgSiCaFe			X	Acti	Asb
2	7	7.6	0.3	Amphibole	F	MgSiCaFe			X	Acti	Asb
2	8	5.4	0.2	Amphibole	B	MgSiCaFe			X	Acti	Asb
2	9	1.5	0.18	Amphibole		MgSiCaFe			X	Acti	Cle
2	10	9.2	0.1	Amphibole	F	MgSiCaFe			X	Acti	Asb
2	11	7.4	0.1	Amphibole	F	MgSiCaFe			X	Acti	Asb
2	12	2.1	0.05	Amphibole	F	MgSiCaFe			X	Acti	Asb
2	13	1.5	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
2	14	4.5	0.15	Amphibole	F	MgSiCaFe	16482C	Image6	Diff4	Acti	Asb
2	15	2.4	0.3	Amphibole		MgSiCaFe			X	Acti	Cle

RJL: LLH901997-26	3158813.HTA4	Microscope tem2000fx1	Grid Openings	4
#3 - Vein 7	K & L Gates	Magnification 21 KX	Asbestos	40.0
Wt: 0.0001 gm	Grid: 0.0087 mm ²	Acc. Voltage 120 KV	Asbestos >= 5µm	10.0
Dil: 1.	Filter Size: 47 mm	Operator: Jon Swope	Nonasbestos	65.0
HQ45555		Cv = 2.5	Nonasbestos >= 5µm	4.0
			% Wt of largest asbestos structure	%

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
2	16	3.8	0.4	Amphibole		MgSiCaFe			X	Acti	Cle
2	17	2.1	0.1	Amphibole	F	MgSiCaFe			X	Acti	Asb
2	18	4.5	0.5	Amphibole		MgSiCaFe			X	Acti	Cle
2	19	1.2	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
2	20	4.2	0.5	Amphibole		MgSiCaFe			X	Acti	Cle
2	21	3.4	0.5	Amphibole		MgSiCaFe			X	Acti	Cle
2	22	2.5	0.1	Amphibole	F	MgSiCaFe			X	Acti	Asb
2	23	1.3	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
3	1	2.5	0.22	Amphibole		MgSiCaFe16492C		Image7	Diff5	Acti	Cle
3	2	1.8	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
3	3	8.3	0.3	Amphibole	F	MgSiCaFe			X	Acti	Asb
3	4	1.2	0.05	Amphibole	F	MgSiCaFe			X	Acti	Asb
3	5	3.7	0.1	Amphibole	F	MgSiCaFe			X	Acti	Asb
3	6	7.9	0.1	Amphibole	F	MgSiCaFe			X	Acti	Asb
3	7	2.1	0.22	Amphibole		MgSiCaFe			X	Acti	Cle
3	8	4.9	0.1	Amphibole	F	MgSiCaFe			X	Acti	Asb
3	9	6.5	0.2	Amphibole	F	MgSiCaFe			X	Acti	Asb
3	10	4.2	0.5	Amphibole		MgSiCaFe			X	Acti	Cle
3	11	2.5	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
3	12	6.7	0.1	Amphibole	F	MgSiCaFe			X	Acti	Asb
3	13	2.5	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
3	14	4.45	0.7	Amphibole		MgSiCaFe16493C		Image8	Diff6	Acti	Cle
3	15	1.7	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
3	16	4.6	0.5	Amphibole		MgSiCaFe			X	Acti	Cle
3	17	2.3	0.4	Amphibole		MgSiCaFe			X	Acti	Cle
3	18	1.9	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
3	19	4.7	0.3	Amphibole	B	MgSiCaFe			X	Acti	Asb
3	20	4.1	0.05	Amphibole	F	MgSiCaFe			X	Acti	Asb
3	21	1.9	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
3	22	5.7	0.65	Amphibole		MgSiCaFe			X	Acti	Cle
3	23	2.3	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
4	1	1.65	0.08	Amphibole	F	MgSiCaFe16494C		Image9	Diff7	Acti	Asb
4	2	2.4	0.4	Amphibole		MgSiCaFe			X	Acti	Cle
4	3	1.3	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
4	4	4.3	0.55	Amphibole		MgSiCaFe			X	Acti	Cle
4	5	1.5	0.1	Amphibole	F	MgSiCaFe			X	Acti	Asb
4	6	2.5	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
4	7	1.3	0.05	Amphibole	F	MgSiCaFe			X	Acti	Asb
4	8	8.3	1.2	Amphibole		MgSiCaFe				Acti	Cle
4	9	1.6	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
4	10	1.5	0.22	Amphibole		MgSiCaFe			X	Acti	Cle
4	11	1.1	0.2	Amphibole		MgSiCaFe16495C		Image10	Diff8	Acti	Cle
4	12	1.4	0.05	Amphibole	F	MgSiCaFe			X	Acti	Asb
4	13	1.3	0.2	Amphibole		MgSiCaFe			X	Acti	Cle

RJL: LLH901997-26	3158813.HTA4	Microscope tem2000fx1	Grid Openings	4
#3 - Vein 7	K & L Gates	Magnification 21 KX	Asbestos	40.0
Wt: 0.0001 gm	Grid: 0.0087 mm ²	Acc. Voltage 120 KV	Asbestos >= 5µm	10.0
Dil: 1.	Filter Size: 47 mm	Operator: Jon Swope	Nonasbestos	65.0
HQ45555		Cv = 2.5	Nonasbestos >= 5µm	4.0
			% Wt of largest asbestos structure	%

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
4	14	2.4	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
4	15	3.5	0.15	Amphibole	F	MgSiCaFe			X	Acti	Asb
4	16	2.1	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
4	17	0.55	0.05	Amphibole	F	MgSiCaFe			X	Acti	Asb
4	18	1.9	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
4	19	1.6	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
4	20	1.2	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
4	21	3.5	0.45	Amphibole		MgSiCaFe16496C		Image11	Diff9	Acti	Cle
4	22	1.5	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
4	23	2.1	0.05	Amphibole	F	MgSiCaFe16497C		Image12 Image13	Diff10	Acti	Asb
4	24	2.5	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
4	25	5.4	0.6	Amphibole		MgSiCaFe			X	Acti	Cle
4	26	1.2	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
4	27	4.7	0.5	Amphibole		MgSiCaFe			X	Acti	Cle
4	28	3.2	0.05	Amphibole	F	MgSiCaFe			X	Acti	Asb
4	29	3.6	0.4	Amphibole		MgSiCaFe			X	Acti	Cle
4	30	7.1	0.55	Amphibole		MgSiCaFe			X	Acti	Cle
4	31	2.6	0.5	Amphibole		MgSiCaFe			X	Acti	Cle

10% Particulate

Analyst's Comments: N/A

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 7/20/2020 3:44:51 PM approve by Jon Swope

Final Review: 8/11/20 1:50 PM approve by Ashleigh Sload

RJL: LLH901997-26	3158813.HTA4	Microscope tem2000fx2	Grid Openings	25
#3 - Vein 7	K & L Gates	Magnification 10 KX	Asbestos	29.0
Wt: 0.0001 gm	Grid: 0.0087 mm ²	Acc. Voltage 120 KV	Nonasbestos	15.0
Dil: 1.	Filter Size: 47 mm	Operator: Jon Swope	% Wt of largest asbestos structure	%
HQ45555		Cv = 1.414		

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1	1	6.8	0.5	Amphibole		MgSiCaFe	16483C	Image1	Diff1	Acti	Cle
2	1	28.7	1.2	Amphibole	B	MgSiCaFe			X	Acti	Asb
3	1	10.3	1.5	Amphibole		MgSiCaFe			X	Acti	Cle
3	2	7.9	1.5	Amphibole		MgSiCaFe			X	Acti	Cle
3	3	8.5	0.3	Amphibole	F	MgSiCaFe			X	Acti	Asb
4	1	20.2	1.8	Amphibole	B	MgSiCaFe			X	Acti	Asb
4	2	6.3	0.2	Amphibole	F	MgSiCaFe			X	Acti	Asb
4	3	15.4	1.5	Amphibole		MgSiCaFe			X	Acti	Cle
4	4	9.1	0.2	Amphibole	F	MgSiCaFe			X	Acti	Asb
5				NSD							
6	1	7.2	0.2	Amphibole	F	MgSiCaFe			X	Acti	Asb
6	2	7.9	0.3	Amphibole	F	MgSiCaFe			X	Acti	Asb
7				NSD							
8				NSD							
9	1	19.7	3.5	Amphibole	B	MgSiCaFe	16484C	Image2	Diff2	Acti	Asb
10	1	8.9	0.3	Amphibole	F	MgSiCaFe			X	Acti	Asb
11	1	23.7	2.4	Amphibole	B	MgSiCaFe			X	Acti	Asb
12	1	8.5	0.15	Amphibole	F	MgSiCaFe			X	Acti	Asb
12	2	7.9	0.1	Amphibole	F	MgSiCaFe			X	Acti	Asb
12	3	8.9	0.1	Amphibole	F	MgSiCaFe			X	Acti	Asb
13	1	5.7	0.6	Amphibole		MgSiCaFe			X	Acti	Cle
14	1	5.2	0.2	Amphibole	F	MgSiCaFe			X	Acti	Asb
14	2	8.9	0.3	Amphibole	F	MgSiCaFe			X	Acti	Asb
15	1	12.3	0.4	Amphibole	F	MgSiCaFe			X	Acti	Asb
15	2	10.6	0.2	Amphibole	F	MgSiCaFe			X	Acti	Asb
15	3	8.6	0.5	Amphibole		MgSiCaFe			X	Acti	Cle
15	4	6.9	0.7	Amphibole		MgSiCaFe			X	Acti	Cle
16	1	5.4	0.1	Amphibole	F	MgSiCaFe			X	Acti	Asb
16	2	7.8	0.1	Amphibole	F	MgSiCaFe			X	Acti	Asb
16	3	13.2	0.25	Amphibole	F	MgSiCaFe			X	Acti	Asb
17	1	11.5	0.1	Amphibole	F	MgSiCaFe	16490C	Image3	Diff3	Acti	Asb
17	2	7.4	0.5	Amphibole	B	MgSiCaFe			X	Acti	Asb
18	1	5.2	0.1	Amphibole	F	MgSiCaFe			X	Acti	Asb
18	2	15.3	0.3	Amphibole	F	MgSiCaFe			X	Acti	Asb
19	1	11.5	0.7	Amphibole		MgSiCaFe			X	Acti	Cle
19	2	21.5	0.6	Amphibole	B	MgSiCaFe			X	Acti	Asb
19	3	6.5	0.15	Amphibole	F	MgSiCaFe			X	Acti	Asb
19	4	9.5	0.7	Amphibole		MgSiCaFe			X	Acti	Cle
19	5	14.4	0.9	Amphibole		MgSiCaFe			X	Acti	Cle
19	6	15.6	0.4	Amphibole	F	MgSiCaFe			X	Acti	Asb
19	7	8.9	0.1	Amphibole	F	MgSiCaFe			X	Acti	Asb
20	1	8.6	0.75	Amphibole		MgSiCaFe	16491C	Image4	Diff4	Acti	Cle
20	2	9.6	1.1	Amphibole		MgSiCaFe			X	Acti	Cle
21	1	6.5	0.5	Amphibole		MgSiCaFe			X	Acti	Cle

RJL: LLH901997-26	3158813.HTA4	Microscope tem2000fx2	Grid Openings	25
#3 - Vein 7	K & L Gates	Magnification 10 KX	Asbestos	29.0
Wt: 0.0001 gm	Grid: 0.0087 mm ²	Acc. Voltage 120 KV	Nonasbestos	15.0
Dil: 1.	Filter Size: 47 mm	Operator: Jon Swope	% Wt of largest asbestos structure	%
HQ45555		Cv = 1.414		

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
22	1	6.9	0.9	Amphibole		MgSiCaFe			X	Acti	Cle
23				NSD							
24	1	6.2	0.5	Amphibole		MgSiCaFe			X	Acti	Cle
24	2	5.8	0.2	Amphibole	F	MgSiCaFe			X	Acti	Asb
25				NSD							

10% Particulate

Analyst's Comments: N/A

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 7/20/2020 4:30:36 PM approve by Jon Swope

Final Review: 8/11/20 1:50 PM approve by Ashleigh Sload

Final Laboratory Report

TEM Bulk Protocol

Attention: David Raphael
K & L Gates
17 North Second Street
Harrisburg, PA 17101
US

Report Date: 08/11/2020
Sample Receipt Date:
RJ Lee Group Job No.: LLH901997-26
Authorization/P.O. No.:
Samples Received: 1
Client Job No.:

Method: ISO 22262-2

TABLE 1 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos

Client Sample Number	RJLG Sample Number	Total Structures				-----Weight Percent----- Total Structures Analytical Sensitivity			
		Chry	Amph	Cleavage	Non Asbestos	Chry	Amph Asb	Amph Cleavage Fragment	Non Asbestos
#3 - Vein 7	3158813	0	69	80	0	< 2.1E-5 2.1E-5	8.0E0 1.7E-5	5.5E0 1.7E-5	< 1.6E-5 1.6E-5

NOTES

- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2×10^{-3} ng/ μ m³, density of chrysotile: 2.55×10^{-3} ng/ μ m³, density of non-asbestos: 3.00×10^{-3} ng/ μ m³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
- These results are submitted pursuant to RJ Lee Group'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 these results are used or interpreted.

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These results are submitted pursuant to RJ Lee Group's current terms and conditions of sale, including the company's standard warranty and limiting provisions and 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, RJ Lee Group will store the samples for a period of ninety (90) days before discarding. A shipping and handling fee will be assessed for the return of any sample.

RJ Lee Group Job No: LLH901997-26
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/11/2020

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos 5 μm

Client Sample Number	RJLG Sample Number	-----Structures 5 μm-----				-----Weight Percent----- Structures 5 μm Analytical Sensitivity			
		Chry	Amph	Cleavage	Non-Asbestos	Amphibole			
						Chry	Asb	Cleavage Fragment	Non-Asbestos
#3 - Vein 7	3158813	0	39	19	0	<u>< 2.1E-4</u> 2.1E-4	<u>7.9E0</u> 1.7E-4	<u>3.7E0</u> 1.7E-4	<u>< 1.6E-4</u> 1.6E-4

NOTES

- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2 * 10⁻³ ng/ μ m³, density of chrysotile: 2.55 * 10⁻³ ng/ μ m³, density of non-asbestos: 3.00 * 10⁻³ ng/ μ m³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
- These results are submitted pursuant to RJ Lee Group'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 these results are used or interpreted.

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RJ Lee Group, Inc.

RJ Lee Group Job No: LLH901997-26
Client Job No/Name:

Final Laboratory Report (cont'd)

Client: K & L Gates
Report Date: 08/11/2020

Client Sample Number	RJLG Sample Number	Material Used (gm)	Area Analyzed Total (mm ²)	Area Analyzed 5 μm (mm ²)	Effective Filter Area (mm ²)	Dilution Factor
#3 - Vein 7	3158813	0.00006	0.25350	0.25350	1220	1.0

Authorized Signature: 
Ashleigh Sload, Scientist

NOTES

- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2×10^{-3} ng/μm³, density of chrysotile: 2.55×10^{-3} ng/μm³, density of non-asbestos: 3.00×10^{-3} ng/μm³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
- These results are submitted pursuant to RJ Lee Group'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 these results are used or interpreted.

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RJ Lee Group, Inc
LLH901997-26
3158813.HTA4

K & L Gates
#3 - Vein 7

20-Jul-20

Air volume:
Area of collection filter:
Volume flowrate:
Level of analysis (chrysotile): NA
Level of analysis (amphibole): AZQ
Magnification used for structure counting:
Aspect ratio for fibre definition: 3:1
Mean dimension of grid openings: 0.00874123
Initials of analyst: JS
Number of grid openings examined: 29
Analytical sensitivity:
Number of primary asbestos structures: 148
Number of asbestos structures counted: 148
Number of asbestos structures >5 µm: 58
Number of fibres and bundles > 5 µm: 58
Number of PCM equivalent asbestos structures: 35
Number of PCM equivalent asbestos fibres: 30

TEM asbestos structure count					
Report Number:	LLH901997-26			Sample Weight:	0.000058
Sample Number:	3158813.HTA4			Filter area (mm2):	1220
Sample Description:	#3 - Vein 7			Magnification:	10/20 KX
				Grid opening dimension (mm2)	0.00874123
Preparation date:	07/20/20	By:	MK		
Analysis date:	07/20/20	By:	JS	Level of analysis (chrysotile)	NA
Computer entry date:	08/7/20	By:	MMK	Level of analysis (amphibole)	AZQ

Grid	Grid Opening	Structures		Identification	Structure type	Length (µm)	Width (µm)	Fibre Type	Comments
		primary	total						
1	H1	1	1	ADX	F	2.2	0.1	Actinolite	
		2	2	AZQ	F	8.1	0.3	Actinolite	
		3	3	ADX	F	1.5	0.3	Actinolite	
		4	4	ADX	F	1.2	0.2	Actinolite	
		5	5	ADX	F	1.2	0.2	Actinolite	
		6	6	ADX	F	2.7	0.1	Actinolite	
		7	7	ADX	F	2.4	0.1	Actinolite	
		8	8	ADX	F	3.1	0.2	Actinolite	
		9	9	ADX	F	3.2	0.3	Actinolite	
		10	10	ADX	F	4.5	0.15	Actinolite	
		11	11	ADX	F	2.2	0.3	Actinolite	
		12	12	ADX	F	2.7	0.4	Actinolite	
		13	13	ADX	F	3.2	0.4	Actinolite	
		14	14	ADX	F	0.9	0.15	Actinolite	
		15	15	ADX	F	1	0.2	Actinolite	
		16	16	AZQ	F	4.2	0.1	Actinolite	
		17	17	ADX	F	1.2	0.18	Actinolite	
		18	18	ADX	F	1.8	0.22	Actinolite	
		19	19	ADX	F	1.5	0.05	Actinolite	
		20	20	ADX	B	12.2	0.1	Actinolite	
		21	21	ADX	F	1.7	0.3	Actinolite	
		22	22	ADX	F	2.1	0.3	Actinolite	
		23	23	ADX	F	3.2	0.05	Actinolite	
		24	24	ADX	F	1.3	0.2	Actinolite	
		25	25	ADX	F	4.1	0.1	Actinolite	
		26	26	ADX	F	3.1	0.1	Actinolite	
		27	27	ADX	F	1.9	0.05	Actinolite	
		28	28	ADX	F	2.6	0.4	Actinolite	
	H3	29	29	ADX	F	1.5	0.1	Actinolite	
		30	30	ADX	F	1.7	0.1	Actinolite	
		31	31	ADX	F	1.3	0.2	Actinolite	
		32	32	ADX	F	2.7	0.25	Actinolite	
		33	33	ADX	F	1.1	0.2	Actinolite	
		34	34	ADX	F	2.1	0.1	Actinolite	
		35	35	ADX	F	7.6	0.3	Actinolite	
		36	36	ADX	B	5.4	0.2	Actinolite	
		37	37	ADX	F	1.5	0.18	Actinolite	
		38	38	ADX	F	9.2	0.1	Actinolite	
		39	39	ADX	F	7.4	0.1	Actinolite	
		40	40	ADX	F	2.1	0.05	Actinolite	
		41	41	ADX	F	1.5	0.2	Actinolite	
		42	42	ADX	F	4.5	0.15	Actinolite	
		43	43	ADX	F	2.4	0.3	Actinolite	

TEM asbestos structure count					
Report Number:	LLH901997-26			Sample Weight:	0.000058
Sample Number:	3158813.HTA4			Filter area (mm ²):	1220
Sample Description:	#3 - Vein 7			Magnification:	10/20 KX
				Grid opening dimension (mm ²)	0.00874123
Preparation date:	07/20/20	By:	MK		
Analysis date:	07/20/20	By:	JS	Level of analysis (chrysotile)	NA
Computer entry date:	08/7/20	By:	MMK	Level of analysis (amphibole)	AZQ

Grid	Grid Opening	Structures		Identification	Structure type	Length (µm)	Width (µm)	Fibre Type	Comments
		primary	total						
		44	44	ADX	F	3.8	0.4	Actinolite	
		45	45	ADX	F	2.1	0.1	Actinolite	
		46	46	ADX	F	4.5	0.5	Actinolite	
		47	47	ADX	F	1.2	0.2	Actinolite	
		48	48	ADX	F	4.2	0.5	Actinolite	
		49	49	ADX	F	3.4	0.5	Actinolite	
		50	50	ADX	F	2.5	0.1	Actinolite	
		51	51	ADX	F	1.3	0.2	Actinolite	
	B1	52	52	AZQ	F	6.8	0.5	Actinolite	
	B3	53	53	ADX	B	28.7	1.2	Actinolite	
	B5	54	54	ADX	F	10.3	1.5	Actinolite	
		55	55	ADX	F	7.9	1.5	Actinolite	
		56	56	ADX	F	8.5	0.3	Actinolite	
	B7	57	57	ADX	B	20.2	1.8	Actinolite	
		58	58	ADX	F	6.3	0.2	Actinolite	
		59	59	ADX	F	15.4	1.5	Actinolite	
		60	60	ADX	F	9.1	0.2	Actinolite	
	B9			No Fibres					
	D9	61	61	ADX	F	7.2	0.2	Actinolite	
		62	62	ADX	F	7.9	0.3	Actinolite	
	D7			No Fibres					
	D5			No Fibres					
	D3	63	63	AZQ	B	19.7	3.5	Actinolite	
	D1	64	64	ADX	F	8.9	0.3	Actinolite	
	F1	65	65	ADX	B	23.7	2.4	Actinolite	
	F3	66	66	ADX	F	8.5	0.15	Actinolite	
		67	67	ADX	F	7.9	0.1	Actinolite	
		68	68	ADX	F	8.9	0.1	Actinolite	
	F7	69	69	ADX	F	5.7	0.6	Actinolite	
2	B2	70	70	ADX	F	5.2	0.2	Actinolite	
		71	71	ADX	F	8.9	0.3	Actinolite	
	B4	72	72	ADX	F	12.3	0.4	Actinolite	
		73	73	ADX	F	10.6	0.2	Actinolite	
		74	74	ADX	F	8.6	0.5	Actinolite	
		75	75	ADX	F	6.9	0.7	Actinolite	
	B6	76	76	ADX	F	5.4	0.1	Actinolite	
		77	77	ADX	F	7.8	0.1	Actinolite	
		78	78	ADX	F	13.2	0.25	Actinolite	
	B8	79	79	AZQ	F	11.5	0.1	Actinolite	
		80	80	ADX	B	7.4	0.5	Actinolite	
	B10	81	81	ADX	F	5.2	0.1	Actinolite	
		82	82	ADX	F	15.3	0.3	Actinolite	
	D10	83	83	ADX	F	11.5	0.7	Actinolite	

TEM asbestos structure count					
Report Number:	LLH901997-26				
Sample Number:	3158813.HTA4			Sample Weight:	0.000058
Sample Description:	#3 - Vein 7			Filter area (mm ²):	1220
				Magnification:	10/20 KX
				Grid opening dimension (mm ²)	0.00874123
Preparation date:	07/20/20	By:	MK		
Analysis date:	07/20/20	By:	JS	Level of analysis (chrysotile)	NA
Computer entry date:	08/7/20	By:	MMK	Level of analysis (amphibole)	AZQ

Grid	Grid Opening	Structures		Identification	Structure type	Length (µm)	Width (µm)	Fibre Type	Comments
		primary	total						
		84	84	ADX	B	21.5	0.6	Actinolite	
		85	85	ADX	F	6.5	0.15	Actinolite	
		86	86	ADX	F	9.5	0.7	Actinolite	
		87	87	ADX	F	14.4	0.9	Actinolite	
		88	88	ADX	F	15.6	0.4	Actinolite	
		89	89	ADX	F	8.9	0.1	Actinolite	
	D8	90	90	AZQ	F	8.6	0.75	Actinolite	
		91	91	ADX	F	9.6	1.1	Actinolite	
	D6	92	92	ADX	F	6.5	0.5	Actinolite	
	D4	93	93	ADX	F	6.9	0.9	Actinolite	
	D2			No Fibres					
	F2	94	94	ADX	F	6.2	0.5	Actinolite	
		95	95	ADX	F	5.8	0.2	Actinolite	
	F4			No Fibres		2.5	0.22		
	H1	96	96	AZQ	F	1.8	0.3	Actinolite	
		97	97	ADX	F	8.3	0.3	Actinolite	
		98	98	ADX	F	1.2	0.05	Actinolite	
		99	99	ADX	F	3.7	0.1	Actinolite	
		100	100	ADX	F	7.9	0.1	Actinolite	
		101	101	ADX	F	2.1	0.22	Actinolite	
		102	102	ADX	F	4.9	0.1	Actinolite	
		103	103	ADX	F	6.5	0.2	Actinolite	
		104	104	ADX	F	4.2	0.5	Actinolite	
		105	105	ADX	F	2.5	0.3	Actinolite	
		106	106	ADX	F	6.7	0.1	Actinolite	
		107	107	ADX	F	2.5	0.3	Actinolite	
		108	108	ADX	F	4.45	0.7	Actinolite	
		109	109	ADX	F	1.7	0.3	Actinolite	
		110	110	ADX	F	4.6	0.5	Actinolite	
		111	111	ADX	F	2.3	0.4	Actinolite	
		112	112	ADX	F	1.9	0.3	Actinolite	
		113	113	ADX	B	4.7	0.3	Actinolite	
		114	114	ADX	F	4.1	0.05	Actinolite	
		115	115	ADX	F	1.9	0.3	Actinolite	
		116	116	ADX	F	5.7	0.65	Actinolite	
		117	117	ADX	F	2.3	0.2	Actinolite	
	H3	118	118	ADX	F	1.65	0.08	Actinolite	
		119	119	ADX	F	2.4	0.4	Actinolite	
		120	120	ADX	F	1.3	0.2	Actinolite	
		121	121	ADX	F	4.3	0.55	Actinolite	
		122	122	ADX	F	1.5	0.1	Actinolite	
		123	123	ADX	F	2.5	0.2	Actinolite	
		124	124	ADX	F	1.3	0.05	Actinolite	

TEM asbestos structure count					
Report Number:	LLH901997-26			Sample Weight:	0.000058
Sample Number:	3158813.HTA4			Filter area (mm ²):	1220
Sample Description:	#3 - Vein 7			Magnification:	10/20 KX
				Grid opening dimension (mm ²)	0.00874123
Preparation date:	07/20/20	By:	MK		
Analysis date:	07/20/20	By:	JS	Level of analysis (chrysotile)	NA
Computer entry date:	08/7/20	By:	MMK	Level of analysis (amphibole)	AZQ

Grid	Grid Opening	Structures		Identification	Structure type	Length (µm)	Width (µm)	Fibre Type	Comments
		primary	total						
		125	125	ADX	F	8.3	1.2	Actinolite	
		126	126	ADX	F	1.6	0.3	Actinolite	
		127	127	ADX	F	1.5	0.22	Actinolite	
		128	128	ADX	F	1.1	0.2	Actinolite	
		129	129	ADX	F	1.4	0.05	Actinolite	
		130	130	ADX	F	1.3	0.2	Actinolite	
		131	131	ADX	F	2.4	0.3	Actinolite	
		132	132	ADX	F	3.5	0.15	Actinolite	
		133	133	ADX	F	2.1	0.2	Actinolite	
		134	134	ADX	F	0.55	0.05	Actinolite	
		135	135	ADX	F	1.9	0.3	Actinolite	
		136	136	ADX	F	1.6	0.3	Actinolite	
		137	137	ADX	F	1.2	0.2	Actinolite	
		138	138	ADX	F	3.5	0.45	Actinolite	
		139	139	ADX	F	1.5	0.2	Actinolite	
		140	140	ADX	F	2.1	0.05	Actinolite	
		141	141	ADX	F	2.5	0.3	Actinolite	
		142	142	ADX	F	5.4	0.6	Actinolite	
		143	143	ADX	F	1.2	0.2	Actinolite	
		144	144	ADX	F	4.7	0.5	Actinolite	
		145	145	ADX	F	3.2	0.05	Actinolite	
		146	146	ADX	F	3.6	0.4	Actinolite	
		147	147	ADX	F	7.1	0.55	Actinolite	
		148	148	ADX	F	2.6	0.5	Actinolite	

Final Laboratory Report

TEM Bulk Protocol

Attention: David Raphael
 K & L Gates
 17 North Second Street
 Harrisburg, PA 17101
 US

Report Date: 08/13/2020
 Sample Receipt Date:
 RJ Lee Group Job No.: LLH901997-26
 Authorization/P.O. No.:
 Samples Received: 1
 Client Job No.:

Method: EPA/R-93/600/116

TABLE 1 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos

Client Sample Number	RJLG Sample Number	<u>Total Structures</u>				-----Weight Percent----- <u>Total Structures</u> Analytical Sensitivity			
		Chry	Amph	Cleavage	Non Asbestos	Chry	Amph Asb	Amph Cleavage Fragment	Non Asbestos
#1 - CB-1 #1	3158814	0	30	155	0	<u>< 4.5E-5</u> 4.5E-5	<u>2.0E0</u> 5.6E-5	<u>8.1E1</u> 3.6E-5	<u>< 3.4E-5</u> 3.4E-5

NOTES

1. "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
2. Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
3. If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
4. Density of amphibole: 3.2×10^{-3} ng/ μ m³, density of chrysotile: 2.55×10^{-3} ng/ μ m³, density of non-asbestos: 3.00×10^{-3} ng/ μ m³.
5. Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
6. Samples will be held for 90 days and then disposed of per Federal regulations.
7. These results are submitted pursuant to RJ Lee Group'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 these results are used or interpreted.

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These results are submitted pursuant to RJ Lee Group's current terms and conditions of sale, including the company's standard warranty and limiting provisions and 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, RJ Lee Group will store the samples for a period of ninety (90) days before discarding. A shipping and handling fee will be assessed for the return of any sample.

RJ Lee Group Job No: LLH901997-26
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/13/2020

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos 5 μm

Client Sample Number	RJLG Sample Number	-----Structures 5 μm-----				-----Weight Percent----- Structures 5 μm Analytical Sensitivity			
		Chry	Amph	Cleavage	Non-Asbestos	Amphibole			
						Chry	Asb	Cleavage Fragment	Non-Asbestos
#1 - CB-1 #1	3158814	0	26	66	0	<u>< 4.5E-4</u> 4.5E-4	<u>1.8E0</u> 5.6E-4	<u>7.3E1</u> 3.6E-4	<u>< 3.4E-4</u> 3.4E-4

NOTES

- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2 * 10⁻³ ng/ μ m³, density of chrysotile: 2.55 * 10⁻³ ng/ μ m³, density of non-asbestos: 3.00 * 10⁻³ ng/ μ m³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
- These results are submitted pursuant to RJ Lee Group'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 these results are used or interpreted.

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RJ Lee Group, Inc.

Final Laboratory Report (cont'd)

RJ Lee Group Job No: LLH901997-26
Client Job No/Name:

Client: K & L Gates
Report Date: 08/13/2020

Client Sample Number	RJLG Sample Number	Material Used (gm)	Area Analyzed Total (mm ²)	Area Analyzed 5 μm (mm ²)	Effective Filter Area (mm ²)	Dilution Factor
#1 - CB-1 #1	3158814	0.00003	0.26224	0.26224	1220	1.0

Authorized Signature: 
Ashleigh Sload, Scientist

NOTES

- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2×10^{-3} ng/μm³, density of chrysotile: 2.55×10^{-3} ng/μm³, density of non-asbestos: 3.00×10^{-3} ng/μm³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
- These results are submitted pursuant to RJ Lee Group'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 these results are used or interpreted.

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RJL: LLH901997-26	3158814.HTA4	Microscope tem2000fx1	Grid Openings	5
#1 - CB-1 #1	K & L Gates	Magnification 20 KX	Asbestos	9.0
Wt: 0.0 gm	Grid: 0.0087 mm ²	Acc. Voltage 120 KV	Asbestos >= 5µm	5.0
Dil: 1.	Filter Size: 47 mm	Operator: Jon Swope	Nonasbestos	99.0
HQ45555		Cv = 2.16	Nonasbestos >= 5µm	10.0
			% Wt of largest asbestos structure	%

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1	1	3.75	0.18	Amphibole	F	SiCaMgFeAl	16769C	Image17	Diff14	Acti	Asb
1	2	1.69	0.28	Amphibole		MgSiCaFe			X	Acti	Cle
1	3	1.01	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
1	4	4.05	0.18	Amphibole	F	MgSiCaFe			X	Acti	Asb
1	5	14.07	1.3	Amphibole		MgSiCaFe			X	Acti	Cle
1	6	3.83	0.55	Amphibole		MgSiCaFe			X	Acti	Cle
1	7	1.35	0.28	Amphibole		MgSiCaFe			X	Acti	Cle
1	8	1.91	0.25	Amphibole		MgSiCaFe			X	Acti	Cle
1	9	1.35	0.25	Amphibole		MgSiCaFe			X	Acti	Cle
1	10	4.95	1.35	Amphibole		MgSiCaFe			X	Acti	Cle
1	11	6.19	0.18	Amphibole	F	MgSiCaFe	16770C	Image18	Diff15	Acti	Asb
1	12	1.58	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
1	13	3.04	0.45	Amphibole		MgSiCaFe			X	Acti	Cle
1	14	3.45	0.4	Amphibole		MgSiCaFe			X	Acti	Cle
1	15	3	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
1	16	1.91	0.25	Amphibole		MgSiCaFe		Image19	X	Acti	Cle
1	17	1.5	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
1	18	1.58	0.11	Amphibole		MgSiCaFe			X	Acti	Cle
1	19	8.55	1.91	Amphibole		MgSiCaFe			X	Acti	Cle
1	20	1.8	0.15	Amphibole		MgSiCaFe			X	Acti	Cle
2	1	2.42	0.4	Amphibole		MgSiCaFe	16771C	Image20	Diff16	Acti	Cle
2	2	1.14	0.25	Amphibole		MgSiCaFe			X	Acti	Cle
2	3	1.59	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
2	4	4.05	0.2	Amphibole		MgSiCaFe		Image21	X	Acti	Cle
2	5	1.8	0.23	Amphibole		MgSiCaFe			X	Acti	Cle
2	6	2.32	0.35	Amphibole		MgSiCaFe			X	Acti	Cle
2	7	2.22	0.35	Amphibole		MgSiCaFe			X	Acti	Cle
2	8	2.59	0.25	Amphibole		MgSiCaFe		Image22	X	Acti	Cle
2	9	1.05	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
2	10	1.8	0.25	Amphibole		MgSiCaFe			X	Acti	Cle
2	11	2.22	0.15	Amphibole		MgSiCaFe	16772C	Image23	Diff17	Acti	Cle
2	12	1.35	0.25	Amphibole		MgSiCaFe			X	Acti	Cle
2	13	5.85	1.35	Amphibole		MgSiCaFe			X	Acti	Cle
2	14	2.52	0.45	Amphibole		MgSiCaFe			X	Acti	Cle
2	15	2.7	0.6	Amphibole		MgSiCaFe			X	Acti	Cle
2	16	4.58	0.65	Amphibole		MgSiCaFe			X	Acti	Cle
2	17	4.69	0.25	Amphibole		MgSiCaFe		Image24	X	Acti	Cle
2	18	4.95	0.68	Amphibole		MgSiCaFe			X	Acti	Cle
2	19	1.45	0.18	Amphibole		MgSiCaFe			X	Acti	Cle
2	20	2.27	0.35	Amphibole		MgSiCaFe			X	Acti	Cle
2	21	1.8	0.23	Amphibole		MgSiCaFe	16773C	Image25	Diff18	Acti	Cle
2	22	2.93	0.75	Amphibole		MgSiCaFe			X	Acti	Cle
3	1	3.15	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
3	2	2.93	0.28	Amphibole		MgSiCaFe			X	Acti	Cle

RJL: LLH901997-26	3158814.HTA4	Microscope tem2000fx1	Grid Openings	5
#1 - CB-1 #1	K & L Gates	Magnification 20 KX	Asbestos	9.0
Wt: 0.0 gm	Grid: 0.0087 mm ²	Acc. Voltage 120 KV	Asbestos >= 5µm	5.0
Dil: 1.	Filter Size: 47 mm	Operator: Jon Swope	Nonasbestos	99.0
HQ45555		Cv = 2.16	Nonasbestos >= 5µm	10.0
			% Wt of largest asbestos structure	%

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
3	3	1.8	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
3	4	1.58	0.23	Amphibole		MgSiCaFe			X	Acti	Cle
3	5	4.05	0.2	Amphibole	F	MgSiCaFe		Image26	X	Acti	Asb
3	6	1.91	0.28	Amphibole		MgSiCaFe			X	Acti	Cle
3	7	3.45	0.45	Amphibole		MgSiCaFe			X	Acti	Cle
3	8	2.7	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
3	9	11.8	0.28	Amphibole	F	MgSiCaFe	All6774C	Image27	Diff19	Acti	Asb
3	10	1.8	0.25	Amphibole		MgSiCaFe			X	Acti	Cle
3	11	2.17	0.25	Amphibole		MgSiCaFe			X	Acti	Cle
3	12	4.28	0.75	Amphibole		MgSiCaFe			X	Acti	Cle
3	13	3.83	0.68	Amphibole		MgSiCaFe			X	Acti	Cle
3	14	1.4	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
3	15	2.27	0.28	Amphibole		MgSiCaFe			X	Acti	Cle
3	16	8.42	1.35	Amphibole		MgSiCaFe			X	Acti	Cle
3	17	2.12	0.12	Amphibole		MgSiCaFe			X	Acti	Cle
3	18	1.58	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
3	19	6.81	0.05	Amphibole	F	MgSiCaFe	16775C	Image28	Diff20	Acti	Asb
3	20	1.8	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
3	21	1.19	0.23	Amphibole		MgSiCaFe			X	Acti	Cle
3	22	11.35	1.5	Amphibole		MgSiCaFe			X	Acti	Cle
3	23	4.54	0.25	Amphibole		MgSiCaFe			X	Acti	Cle
3	24	1.69	0.25	Amphibole		MgSiCaFe			X	Acti	Cle
3	25	1.91	0.25	Amphibole		MgSiCaFe			X	Acti	Cle
3	26	9.53	0.9	Amphibole		MgSiCaFe			X	Acti	Cle
3	27	4.05	0.45	Amphibole		MgSiCaFe			X	Acti	Cle
3	28	2.59	0.45	Amphibole		MgSiCaFe			X	Acti	Cle
4	1	2.52	0.45	Amphibole		MgSiCaFe	16776C	Image29	Diff21	Acti	Cle
4	2	1.01	0.1	Amphibole		MgSiCaFe			X	Acti	Cle
4	3	1.8	0.45	Amphibole		MgSiCaFe			X	Acti	Cle
4	4	1.69	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
4	5	2.48	0.45	Amphibole		MgSiCaFe			X	Acti	Cle
4	6	2.92	0.25	Amphibole		MgSiCaFe			X	Acti	Cle
4	7	1.8	0.28	Amphibole		MgSiCaFe			X	Acti	Cle
4	8	3.15	0.55	Amphibole		MgSiCaFe			X	Acti	Cle
4	9	1.5	0.15	Amphibole		MgSiCaFe			X	Acti	Cle
4	10	3.83	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
4	11	4.28	0.5	Amphibole		MgSiCaFe	16777C	Image30	Diff22	Acti	Cle
4	12	2.7	0.45	Amphibole		MgSiCaFe			X	Acti	Cle
4	13	2.27	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
4	14	2.17	0.45	Amphibole		MgSiCaFe			X	Acti	Cle
4	15	4.73	0.68	Amphibole		MgSiCaFe			X	Acti	Cle
4	16	2.03	0.4	Amphibole		MgSiCaFe			X	Acti	Cle
4	17	5.85	1.14	Amphibole		MgSiCaFe		Image31	X	Acti	Cle
4	18	9.45	0.85	Amphibole		MgSiCaFe			X	Acti	Cle

RJ Lee Group, Inc.
TEM Count Sheet

RJL: LLH901997-26	3158814.HTA4	Microscope tem2000fx1	Grid Openings	5
#1 - CB-1 #1	K & L Gates	Magnification 20 KX	Asbestos	9.0
Wt: 0.0 gm	Grid: 0.0087 mm ²	Acc. Voltage 120 KV	Asbestos >= 5µm	5.0
Dil: 1.	Filter Size: 47 mm	Operator: Jon Swope	Nonasbestos	99.0
HQ45555		Cv = 2.16	Nonasbestos >= 5µm	10.0
			% Wt of largest asbestos structure	%

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
4	19	1.8	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
4	20	7.2	0.68	Amphibole		MgSiCaFe			X	Acti	Cle
5	1	3.83	0.18	Amphibole	F	MgSiCaFe	16778C	Image33	Diff23	Acti	Asb
5	2	1.8	0.25	Amphibole		MgSiCaFe			X	Acti	Cle
5	3	12.25	2.27	Amphibole		MgSiCaFe			X	Acti	Cle
5	4	1.91	0.28	Amphibole		MgSiCaFe			X	Acti	Cle
5	5	2.17	0.35	Amphibole		MgSiCaFe			X	Acti	Cle
5	6	2.03	0.4	Amphibole		MgSiCaFe			X	Acti	Cle
5	7	4.44	0.45	Amphibole		MgSiCaFe			X	Acti	Cle
5	8	2.7	0.28	Amphibole		MgSiCaFe			X	Acti	Cle
5	9	2.52	0.23	Amphibole		MgSiCaFe			X	Acti	Cle
5	10	2.85	0.15	Amphibole		MgSiCaFe			X	Acti	Cle
5	11	24.05	0.35	Amphibole	F	MgSiCaFe	16779C	Image34	Diff24	Acti	Asb
5	12	1.45	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
5	13	6.81	0.15	Amphibole	F	MgSiCaFe			X	Acti	Asb
5	14	1.8	0.25	Amphibole		MgSiCaFe			X	Acti	Cle
5	15	1.8	0.45	Amphibole		MgSiCaFe			X	Acti	Cle
5	16	1.4	0.23	Amphibole		MgSiCaFe			X	Acti	Cle
5	17	1.8	0.18	Amphibole		MgSiCaFe			X	Acti	Cle
5	18	2.48	0.51	Amphibole		MgSiCaFe			X	Acti	Cle

7% Particulate

Analyst's Comments: sample analyzed by JM

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 7/21/2020 9:45:05 AM approve by Jacquelyn Mershon

Final Review: 8/13/20 3:24 PM approve by Ashleigh Sload

RJL: LLH901997-26	3158814.HTA4	Microscope tem2000fx1	Grid Openings	25
#1 - CB-1 #1	K & L Gates	Magnification 10 KX	Asbestos	21.0
Wt: 0.0 gm	Grid: 0.0087 mm ²	Acc. Voltage 120 KV	Nonasbestos	56.0
Dil: 1.	Filter Size: 47 mm	Operator: Jon Swope	% Wt of largest asbestos structure	%
HQ45555		Cv = 0.934		

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1	1	20.21	0.72	Amphibole		MgSiCaFe	16780C	Image18	Diff13	Acti	Cle
1	2	5.04	0.09	Amphibole	F	MgSiCaFe			X	Acti	Asb
2	1	11.7	3.38	Amphibole		MgSiCaFe		Image19	X	Acti	Cle
2	2	5.85	0.9	Amphibole		MgSiCaFe			X	Acti	Cle
3	1	7.2	1.35	Amphibole		MgSiCaFe			X	Acti	Cle
3	2	7.88	0.45	Amphibole		MgSiCaFe			X	Acti	Cle
4	1	7.92	0.99	Amphibole		MgSiCaFe			X	Acti	Cle
4	2	7.2	1.35	Amphibole		MgSiCaFe			X	Acti	Cle
4	3	9.9	1.8	Amphibole		MgSiCaFe			X	Acti	Cle
4	4	6.74	1.35	Amphibole		MgSiCaFe			X	Acti	Cle
4	5	9.07	0.27	Amphibole	F	MgSiCaFe	16781C	Image20	Diff14	Acti	Asb
5	1	9.9	1.08	Amphibole		MgSiCaFe			X	Acti	Cle
5	2	6.08	0.27	Amphibole	F	MgSiCaFe			X	Acti	Asb
5	3	9.45	1.8	Amphibole		MgSiCaFe			X	Acti	Cle
5	4	8.55	1.08	Amphibole		MgSiCaFe			X	Acti	Cle
5	5	6.3	0.45	Amphibole		MgSiCaFe			X	Acti	Cle
6	1	22.45	2.34	Amphibole		MgSiCaFe			X	Acti	Cle
6	2	6.74	0.45	Amphibole		MgSiCaFe			X	Acti	Cle
6	3	5.18	0.23	Amphibole	F	MgSiCaFe		Image21	X	Acti	Asb
6	4	7.2	1.8	Amphibole		MgSiCaFe			X	Acti	Cle
6	5	5.67	0.23	Amphibole	F	MgSiCaFe	16782C	Image22	Diff15	Acti	Asb
7	1	10.8	1.08	Amphibole		MgSiCaFe			X	Acti	Cle
7	2	6.3	0.99	Amphibole		MgSiCaFe			X	Acti	Cle
8	1	7.88	0.36	Amphibole	F	MgSiCaFe			X	Acti	Asb
8	2	16.65	0.18	Amphibole	F	MgSiCaFe			X	Acti	Asb
8	3	6.74	1.17	Amphibole		MgSiCaFe			X	Acti	Cle
9	1	8.98	2.03	Amphibole		MgSiCaFe		Image23	X	Acti	Cle
9	2	14.95	0.69	Amphibole		MgSiCaFe			X	Acti	Cle
9	3	9.9	1.53	Amphibole		MgSiCaFe			X	Acti	Cle
9	4	5.4	0.23	Amphibole	F	MgSiCaFe			X	Acti	Asb
9	5	13.95	2.25	Amphibole		MgSiCaFe	16783C	Image24	Diff16	Acti	Cle
9	6	6.74	0.45	Amphibole		MgSiCaFe			X	Acti	Cle
10	1	6.74	0.45	Amphibole		MgSiCaFe		Image25	X	Acti	Cle
10	2	9.45	1.08	Amphibole		MgSiCaFe			X	Acti	Cle
10	3	7.2	0.45	Amphibole		MgSiCaFe		Image26	X	Acti	Cle
11	1	6.53	0.54	Amphibole		MgSiCaFe			X	Acti	Cle
12				NSD							
13	1	5.58	0.23	Amphibole		MgSiCaFe			X	Acti	Cle
13	2	7.65	1.17	Amphibole		MgSiCaFe			X	Acti	Cle
13	3	23.53	0.45	Amphibole	B	MgSiCaFe		Image27	X	Acti	Asb
14	1	6.74	0.54	Amphibole		MgSiCaFe			X	Acti	Cle
14	2	6.78	0.45	Amphibole		MgSiCaFe	16784C	Image28	Diff17	Acti	Cle
14	3	8.1	0.27	Amphibole	F	MgSiCaFe			X	Acti	Asb
14	4	8.98	0.36	Amphibole	F	MgSiCaFe			X	Acti	Asb

RJL: LLH901997-26	3158814.HTA4	Microscope tem2000fx1	Grid Openings	25
#1 - CB-1 #1	K & L Gates	Magnification 10 KX	Asbestos	21.0
Wt: 0.0 gm	Grid: 0.0087 mm ²	Acc. Voltage 120 KV	Nonasbestos	56.0
Dil: 1.	Filter Size: 47 mm	Operator: Jon Swope	% Wt of largest asbestos structure	%
HQ45555		Cv = 0.934		

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
15	1	7.65	2.03	Amphibole		MgSiCaFe			X	Acti	Cle
15	2	6.74	0.09	Amphibole	F	MgSiCaFe			X	Acti	Asb
15	3	5.18	0.23	Amphibole	F	MgSiCaFe		Image29	X	Acti	Asb
16	1	8.33	0.36	Amphibole	F	MgSiCaFe	16785C	Image30	Diff18	Acti	Asb
16	2	17.96	1.89	Amphibole		MgSiCaFe		Image31	X	Acti	Cle
16	3	8.1	0.54	Amphibole		MgSiCaFe			X	Acti	Cle
16	4	6.3	0.23	Amphibole	F	MgSiCaFe			X	Acti	Asb
16	5	6.12	0.23	Amphibole	F	MgSiCaFe			X	Acti	Asb
16	6	7.2	0.18	Amphibole	F	MgSiCaFe			X	Acti	Asb
17	1	10.62	0.63	Amphibole		MgSiCaFe			X	Acti	Cle
17	2	23.35	3.38	Amphibole		MgSiCaFe			X	Acti	Cle
17	3	6.3	1.26	Amphibole		MgSiCaFe			X	Acti	Cle
18	1	5.18	0.18	Amphibole		MgSiCaFe		Image32	X	Acti	Cle
18	2	9.16	0.23	Amphibole	F	MgSiCaFe			X	Acti	Asb
18	3	6.21	0.45	Amphibole		MgSiCaFe			X	Acti	Cle
19	1	5.18	0.45	Amphibole		MgSiCaFe			X	Acti	Cle
19	2	7.65	0.27	Amphibole	F	MgSiCaFe			X	Acti	Asb
19	3	7.64	1.53	Amphibole		MgSiCaFe	16786C	Image33	Diff19	Acti	Cle
20	1	10.35	2.7	Amphibole		MgSiCaFe			X	Acti	Cle
20	2	18.41	1.62	Amphibole		MgSiCaFe		Image34	X	Acti	Cle
20	3	8.1	0.45	Amphibole		MgSiCaFe			X	Acti	Cle
20	4	6.3	1.35	Amphibole		MgSiCaFe			X	Acti	Cle
21	1	5.68	0.54	Amphibole		MgSiCaFe			X	Acti	Cle
21	2	8.1	1.53	Amphibole		MgSiCaFe			X	Acti	Cle
22	1	8.33	0.41	Amphibole		MgSiCaFe		Image35	X	Acti	Cle
23	1	5.58	0.45	Amphibole		MgSiCaFe			X	Acti	Cle
23	2	6.3	0.36	Amphibole		MgSiCaFe		Image36	X	Acti	Cle
23	3	9.9	2.02	Amphibole		MgSiCaFe			X	Acti	Cle
24	1	7.88	0.54	Amphibole		MgSiCaFe			X	Acti	Cle
24	2	6.3	0.81	Amphibole		MgSiCaFe	16787C	Image37	Diff20	Acti	Cle
24	3	5.18	0.9	Amphibole		MgSiCaFe			X	Acti	Cle
24	4	5.58	0.18	Amphibole	F	MgSiCaFe		Image38	X	Acti	Asb
24	5	6.03	0.45	Amphibole		MgSiCaFe		Image39	X	Acti	Cle
25	1	8.98	0.18	Amphibole	F	MgSiCaFe		Image40	X	Acti	Asb

7% Particulate

Analyst's Comments: Grids 4 and 5. sample analyzed by JM.

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 7/21/2020 1:14:15 PM approve by Jacquelyn Mershon

Final Review: 8/13/20 3:24 PM approve by Ashleigh Sload

Final Laboratory Report

TEM Bulk Protocol

Attention: David Raphael
K & L Gates
17 North Second Street
Harrisburg, PA 17101
US

Report Date: 08/13/2020
Sample Receipt Date:
RJ Lee Group Job No.: LLH901997-26
Authorization/P.O. No.:
Samples Received: 1
Client Job No.:

Method: ISO 22262-2

TABLE 1 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos

Client Sample Number	RJLG Sample Number	<u>Total Structures</u>				-----Weight Percent----- <u>Total Structures</u> Analytical Sensitivity			
		Chry	Amph	Cleavage	Non Asbestos	Chry	Amph Asb	Amph Cleavage Fragment	Non Asbestos
#1 - CB-1 #1	3158814	0	30	155	0	< 4.5E-5 4.5E-5	1.3E0 3.6E-5	8.1E1 3.6E-5	< 3.4E-5 3.4E-5

NOTES

1. "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
2. Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
3. If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
4. Density of amphibole: 3.2×10^{-3} ng/ μ m³, density of chrysotile: 2.55×10^{-3} ng/ μ m³, density of non-asbestos: 3.00×10^{-3} ng/ μ m³.
5. Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
6. Samples will be held for 90 days and then disposed of per Federal regulations.
7. These results are submitted pursuant to RJ Lee Group'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 these results are used or interpreted.

DISCLAIMER

This report may not be used to claim product endorsement by NVLAP, NY ELAP, AIHA LAP, LLC, or any other regulatory or laboratory accrediting agency. Any reproduction of this document must be in full in order for the report to be valid. This report is not valid unless it bears a RJ Lee Group approved signatory.

These results are submitted pursuant to RJ Lee Group's current terms and conditions of sale, including the company's standard warranty and limiting provisions and 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, RJ Lee Group will store the samples for a period of ninety (90) days before discarding. A shipping and handling fee will be assessed for the return of any sample.

RJ Lee Group Job No: LLH901997-26
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/13/2020

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos 5 μm

Client Sample Number	RJLG Sample Number	-----Structures 5 μm-----				-----Weight Percent----- Structures 5 μm Analytical Sensitivity			
		Chry	Amph	Cleavage	Non-Asbestos	Amphibole			
						Chry	Asb	Cleavage Fragment	Non-Asbestos
#1 - CB-1 #1	3158814	0	26	66	0	<u>< 4.5E-4</u> 4.5E-4	<u>1.2E0</u> 3.6E-4	<u>7.3E1</u> 3.6E-4	<u>< 3.4E-4</u> 3.4E-4

NOTES

- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2 * 10⁻³ ng/ μ m³, density of chrysotile: 2.55 * 10⁻³ ng/ μ m³, density of non-asbestos: 3.00 * 10⁻³ ng/ μ m³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
- These results are submitted pursuant to RJ Lee Group'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 these results are used or interpreted.

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RJ Lee Group, Inc.

RJ Lee Group Job No: LLH901997-26
Client Job No/Name:

Final Laboratory Report (cont'd)

Client: K & L Gates
Report Date: 08/13/2020

Client Sample Number	RJLG Sample Number	Material Used (gm)	Area Analyzed Total (mm ²)	Area Analyzed 5 μm (mm ²)	Effective Filter Area (mm ²)	Dilution Factor
#1 - CB-1 #1	3158814	0.0	0.26224	0.26224	1220	1.0

Authorized Signature: 
Ashleigh Sload, Scientist

NOTES

- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2×10^{-3} ng/μm³, density of chrysotile: 2.55×10^{-3} ng/μm³, density of non-asbestos: 3.00×10^{-3} ng/μm³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
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RJ Lee Group, Inc
LLH901997-26
3158814.HTA4

K & L Gates
#1 - CB-1 #1

20-Jul-20

Air volume:

Area of collection filter:

Volume flowrate:

Level of analysis (chrysotile): NA

Level of analysis (amphibole): AZQ

Magnification used for structure counting:

Aspect ratio for fibre definition: 3:1

Mean dimension of grid openings: 0.00874123

Initials of analyst: JM

Number of grid openings examined: 30

Analytical sensitivity:

Number of primary asbestos structures: 177

Number of asbestos structures counted: 178

Number of asbestos structures >5 µm: 93

Number of fibres and bundles > 5 µm: 84

Number of PCM equivalent asbestos structures: 80

Number of PCM equivalent asbestos fibres: 72

TEM asbestos structure count						
Report Number:	LLH901997-26		Page:	1	of	1
Sample Number:	3158814.HTA4		Sample Weight:	0.000026		
Sample Description:	#1 - CB-1 #1		Filter area (mm ²):	1220		
			Magnification:	10/20 KX		
			Grid opening dimension (mm ²)	0.00874123		
Preparation date:	07/20/20	By:	MK			
Analysis date:	07/20/20	By:	JM	Level of analysis (chrysotile)	NA	
Computer entry date:	08/7/20	By:	MMK	Level of analysis (amphibole)	AZQ	

Grid	Grid Opening	Structures		Identification	Structure type	Length (µm)	Width (µm)	Fibre Type	Comments
		primary	total						
4	I1	1	1	AZQ	F	3.75	0.18	Actinolite	
		2	2	ADX	F	1.69	0.28	Actinolite	
		3	3	ADX	F	1.01	0.2	Actinolite	
		4	4	ADX	F	4.05	0.18	Actinolite	
		5	5	ADX	F	14.07	1.3	Actinolite	
		6	6	ADX	F	3.83	0.55	Actinolite	
		7	7	ADX	F	1.35	0.28	Actinolite	
		8	8	ADX	F	1.91	0.25	Actinolite	
		9	9	ADX	F	1.35	0.25	Actinolite	
		10	10	ADX	F	4.95	1.35	Actinolite	
		11	11	AZQ	F	6.19	0.18	Actinolite	
		12	12	ADX	F	1.58	0.3	Actinolite	
		13	13	ADX	F	3.04	0.45	Actinolite	
		14	14	ADX	F	3.45	0.4	Actinolite	
		15	15	ADX	F	3	0.3	Actinolite	
		16	16	ADX	F	3.82	0.25	Actinolite	
		17	17	ADX	F	1.5	0.3	Actinolite	
		18	18	ADX	F	1.58	0.11	Actinolite	
		19	19	ADX	F	8.55	1.91	Actinolite	
		20	20	ADX	F	1.8	0.15	Actinolite	
	I3	21	21	AZQ	F	2.42	0.4	Actinolite	
		22	22	ADX	F	1.14	0.25	Actinolite	
		23	23	ADX	F	1.59	0.2	Actinolite	
		24	24	ADX	F	4.05	0.2	Actinolite	
		25	25	ADX	F	1.8	0.23	Actinolite	
		26	26	ADX	F	2.32	0.35	Actinolite	
		27	27	ADX	F	2.22	0.35	Actinolite	
		28	28	ADX	F	2.59	0.25	Actinolite	
		29	29	ADX	F	1.05	0.2	Actinolite	Not tabulated; touches left grid bar
		30	30	ADX	F	1.8	0.25	Actinolite	
		31	31	AZQ	F	2.22	0.15	Actinolite	
		32	32	ADX	F	1.35	0.25	Actinolite	
		33	33	ADX	F	5.85	1.35	Actinolite	
		34	34	ADX	F	2.52	0.45	Actinolite	
		35	35	ADX	F	2.7	0.6	Actinolite	
		36	36	ADX	F	4.58	0.65	Actinolite	
		37	37	ADX	F	4.69	0.25	Actinolite	
		38	38	ADX	F	4.95	0.68	Actinolite	
		39	39	ADX	F	1.45	0.18	Actinolite	

		40	40	ADX	F	2.27	0.35	Actinolite	
		41	41	ADX	F	1.8	0.23	Actinolite	
		42	42	ADX	F	2.93	0.75	Actinolite	
	I5	43	43	ADX	F	3.15	0.2	Actinolite	
		44	44	ADX	F	2.93	0.28	Actinolite	
		45	45	ADX	F	1.8	0.3	Actinolite	
		46	46	ADX	F	1.58	0.23	Actinolite	
		47	47	ADX	F	4.05	0.2	Actinolite	
		48	48	ADX	F	1.91	0.28	Actinolite	
		49	49	ADX	F	3.45	0.45	Actinolite	
		50	50	ADX	F	2.7	0.3	Actinolite	
		51	51	AZQ	F	11.8	0.28	Actinolite	
		52	52	ADX	F	1.8	0.25	Actinolite	
		53	53	ADX	F	2.17	0.25	Actinolite	
		54	54	ADX	F	4.28	0.75	Actinolite	
		55	55	ADX	F	3.83	0.68	Actinolite	
		56	56	ADX	F	1.4	0.2	Actinolite	
		57	57	ADX	F	2.27	0.28	Actinolite	
		58	58	ADX	F	8.42	1.35	Actinolite	
		59	59	ADX	F	2.12	0.12	Actinolite	
		60	60	ADX	F	1.58	0.2	Actinolite	
		61	61	AZQ	F	6.81	0.05	Actinolite	
		62	62	ADX	F	1.8	0.3	Actinolite	
		63	63	ADX	F	1.19	0.23	Actinolite	
		64	64	ADX	F	11.35	1.5	Actinolite	
		65	65	ADX	F	4.54	0.25	Actinolite	
		66	66	ADX	F	1.69	0.25	Actinolite	
		67	67	ADX	F	1.91	0.25	Actinolite	
		68	68	ADX	F	9.53	0.9	Actinolite	
		69	69	ADX	F	4.05	0.45	Actinolite	
		70	70	ADX	F	2.59	0.45	Actinolite	
	5 I1	71	71	AZQ	F	2.52	0.45	Actinolite	
		72	72	ADX	F	1.01	0.1	Actinolite	
		73	73	ADX	F	1.8	0.45	Actinolite	
		74	74	ADX	F	1.69	0.3	Actinolite	
		75	75	ADX	F	2.48	0.45	Actinolite	
		76	76	ADX	F	2.92	0.25	Actinolite	
		77	77	ADX	F	1.8	0.28	Actinolite	
		78	78	ADX	F	3.15	0.55	Actinolite	
		79	79	ADX	F	1.5	0.15	Actinolite	
		80	80	ADX	F	3.83	0.3	Actinolite	
		81	81	AZQ	F	4.28	0.5	Actinolite	
		82	82	ADX	F	2.7	0.45	Actinolite	
		83	83	ADX	F	2.27	0.2	Actinolite	
		84	84	ADX	F	2.17	0.45	Actinolite	
		85	85	ADX	F	4.73	0.68	Actinolite	
		86	86	ADX	F	2.03	0.4	Actinolite	
		87	87	ADX	F	11.7	1.14	Actinolite	
		88	88	ADX	F	9.45	0.85	Actinolite	
		89	89	ADX	F	1.8	0.3	Actinolite	
		90	90	ADX	F	7.2	0.68	Actinolite	
	I3	91	91	AZQ	F	3.83	0.18	Actinolite	
		92	92	ADX	F	1.8	0.25	Actinolite	
		93	93	ADX	F	12.25	2.27	Actinolite	
		94	94	ADX	F	1.91	0.28	Actinolite	

		95	95	ADX	F	2.17	0.35	Actinolite	
		96	96	ADX	F	2.03	0.4	Actinolite	
		97	97	ADX	F	4.44	0.45	Actinolite	
		98	98	ADX	F	2.7	0.28	Actinolite	
		99	99	ADX	F	2.52	0.23	Actinolite	
		100	100	ADX	F	2.85	0.15	Actinolite	
		101	101	AZQ	F	24.05	0.35	Actinolite	
		102	102	ADX	F	1.45	0.2	Actinolite	
		103	103	ADX	F	6.81	0.15	Actinolite	
		104	104	ADX	F	1.8	0.25	Actinolite	
		105	105	ADX	F	1.8	0.45	Actinolite	
		106	106	ADX	F	1.4	0.23	Actinolite	
		107	107	ADX	F	1.8	0.18	Actinolite	
		108	108	ADX	F	2.48	0.51	Actinolite	
4	B1			AZQ		20.21	0.72	Actinolite	Not tabulated; touches top grid bar
		109	109	ADX	F	5.04	0.09	Actinolite	
	B3			ADX		11.7	3.38	Actinolite	Not tabulated; touches top grid bar
		110	110	ADX	F	5.85	0.9	Actinolite	
	B5	111	111	ADX	F	7.2	1.35	Actinolite	
		112	112	ADX	F	7.88	0.45	Actinolite	
	B7	113	113	ADX	F	7.92	0.99	Actinolite	
		114	114	ADX	F	7.2	1.35	Actinolite	
		115	115	ADX	F	9.9	1.8	Actinolite	
		116	116	ADX	F	6.74	1.35	Actinolite	
		117	117	AZQ	F	9.07	0.27	Actinolite	
	B9	118	118	ADX	F	9.9	1.08	Actinolite	
		119	119	ADX	F	6.08	0.27	Actinolite	
		120	120	ADX	F	9.45	1.8	Actinolite	
		121	121	ADX	F	8.55	1.08	Actinolite	
		122	122	ADX	F	6.3	0.45	Actinolite	
	D10	123	123	ADX	F	22.45	2.34	Actinolite	
		124	124	ADX	F	6.74	0.45	Actinolite	
		125	125	ADX	F	5.18	0.23	Actinolite	
		126	126	ADX	F	7.2	1.8	Actinolite	
		127	127	AZQ	F	5.67	0.23	Actinolite	
	D8	128	128	ADX	F	10.8	1.08	Actinolite	
		129	129	ADX	F	6.3	0.99	Actinolite	
	D6	130	130	ADX	F	7.88	0.36	Actinolite	
		131	131	ADX	F	16.65	0.18	Actinolite	
		132	132	ADX	F	6.74	1.17	Actinolite	
	D4	133	133	ADX	F	17.96	2.03	Actinolite	
		134	134	ADX	F	14.95	0.69	Actinolite	
		135	135	ADX	F	9.9	1.53	Actinolite	
		136	136	ADX	F	5.4	0.23	Actinolite	
		137	137	AZQ	F	13.95	2.25	Actinolite	
		138	138	ADX	F	6.74	0.45	Actinolite	

	F1			ADX	F	6.74	0.45	Actinolite	Not tabulated; touches top grid bar
		139	139	ADX	F	9.45	1.08	Actinolite	
		140	140	ADX	F	14.4	0.45	Actinolite	
	F3	141	141	ADX	F	6.53	0.54	Actinolite	
	F7	142	142	No Fibres					
	F9	143	143	ADX	F	5.58	0.23	Actinolite	
		144	144	ADX	F	7.65	1.17	Actinolite	
		145	145	ADX	B	23.53	0.45	Actinolite	
5	B1	146	146	ADX	F	6.74	0.54	Actinolite	
		147	147	AZQ	F	6.78	0.45	Actinolite	
		148	148	ADX	F	8.1	0.27	Actinolite	
		149	149	ADX	F	8.98	0.36	Actinolite	
	B3	150	150	ADX	F	7.65	2.03	Actinolite	
		151	151	ADX	F	6.74	0.09	Actinolite	
				ADX		5.18	0.23	Actinolite	Not tabulated; touches left grid bar
	B5			AZQ		8.33	0.36	Actinolite	Not tabulated; touches top grid bar
				ADX	F	17.96	1.89	Actinolite	Not tabulated; touches left grid bar
		152	152	ADX	F	8.1	0.54	Actinolite	
		153	153	ADX	F	6.3	0.23	Actinolite	
		154	154	ADX	F	6.12	0.23	Actinolite	
		155	155	ADX	F	7.2	0.18	Actinolite	
	B7	156	156	ADX	F	10.62	0.63	Actinolite	
		157	157	ADX	F	23.35	3.38	Actinolite	
		158	158	ADX	F	6.3	1.26	Actinolite	
	B9	159	159	ADX	F	5.18	0.18	Actinolite	
		160	159	ADX	F	9.16	0.23	Actinolite	
		161	161	ADX	F	6.21	0.45	Actinolite	
	D9	162	162	ADX	F	5.18	0.45	Actinolite	
		163	163	ADX	F	7.65	0.27	Actinolite	
				AZQ		7.64	1.53	Actinolite	Not tabulated; touches top grid bar
	D7	164	164	ADX	F	10.35	2.7	Actinolite	
				ADX		18.41	1.62	Actinolite	Not tabulated; touches left grid bar
		165	165	ADX	F	8.1	0.45	Actinolite	
		166	166	ADX	F	6.3	1.35	Actinolite	
	D5	167	167	ADX	F	5.68	0.54	Actinolite	
		168	168	ADX	F	8.1	1.53	Actinolite	

	D3	169	169	ADX	F	8.33	0.41	Actinolite	
	D1	170	170	ADX	F	5.58	0.45	Actinolite	
		171		ADX	MD21	11.6	4.4	Actinolite	
			171	ADX	MF	6.3	0.36	Actinolite	
			172	ADX	MB	2.2	0.48	Actinolite	
		172	173	ADX	F	9.9	2.02	Actinolite	
	F1	173	174	ADX	F	7.88	0.54	Actinolite	
		174	175	AZQ	F	6.3	0.81	Actinolite	
				ADX		5.18	0.9	Actinolite	Not tabulated; touches left grid bar
		175	176	ADX	F	11.16	0.18	Actinolite	
		176	177	ADX	F	6.03	0.45	Actinolite	
	F9	177	178	ADX	F	8.98	0.18	Actinolite	

Final Laboratory Report

TEM Bulk Protocol

Attention: David Raphael
K & L Gates
17 North Second Street
Harrisburg, PA 17101
US

Report Date: 07/28/2020
Sample Receipt Date:
RJ Lee Group Job No.: LLH901997-26
Authorization/P.O. No.:
Samples Received: 1
Client Job No.:

Method: EPA/R-93/600/116

TABLE 1 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos

Client Sample Number	RJLG Sample Number	Total Structures				-----Weight Percent----- Total Structures Analytical Sensitivity			
		Chry	Amph	Cleavage	Non Asbestos	Chry	Amph Asb	Amph Cleavage Fragment	Non Asbestos
#2 - CB-1 #3	3158815	0	12	17	0	< 2.0E-6 2.0E-6	3.2E-2 2.5E-6	2.4E-2 1.6E-6	< 1.5E-6 1.5E-6

NOTES

- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2×10^{-3} ng/ μ m³, density of chrysotile: 2.55×10^{-3} ng/ μ m³, density of non-asbestos: 3.00×10^{-3} ng/ μ m³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
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RJ Lee Group Job No: LLH901997-26
 Client Job No/Name:

Client: K & L Gates
 Report Date: 07/28/2020

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos 5 μm

Client Sample Number	RJLG Sample Number	-----Structures 5 μm-----				-----Weight Percent----- Structures 5 μm Analytical Sensitivity			
		Chry	Amph	Cleavage	Non-Asbestos	Amphibole			
						Chry	Asb	Cleavage Fragment	Non-Asbestos
#2 - CB-1 #3	3158815	0	10	4	0	<u>< 2.0E-5</u> 2.0E-5	<u>3.2E-2</u> 2.5E-5	<u>1.1E-2</u> 1.6E-5	<u>< 1.5E-5</u> 1.5E-5

NOTES

- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2 * 10⁻³ ng/ μ m³, density of chrysotile: 2.55 * 10⁻³ ng/ μ m³, density of non-asbestos: 3.00 * 10⁻³ ng/ μ m³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
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RJ Lee Group, Inc.

RJ Lee Group Job No: LLH901997-26
Client Job No/Name:

Final Laboratory Report (cont'd)

Client: K & L Gates
Report Date: 07/28/2020

Client Sample Number	RJLG Sample Number	Material Used (gm)	Area Analyzed Total (mm ²)	Area Analyzed 5 μm (mm ²)	Effective Filter Area (mm ²)	Dilution Factor
#2 - CB-1 #3	3158815	0.0005	0.30731	0.30731	1220	1.0

Authorized Signature: 
Ashleigh Sload, Scientist

NOTES

- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2×10^{-3} ng/μm³, density of chrysotile: 2.55×10^{-3} ng/μm³, density of non-asbestos: 3.00×10^{-3} ng/μm³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
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RJL: LLH901997-26	3158815.HTA1	Microscope tem2000fx1	Grid Openings	10
#2 - CB-1 #3	K & L Gates	Magnification 21 KX	Asbestos	7.0
Wt: 0.0005 gm	Grid: 0.0088 mm ²	Acc. Voltage 120 KV	Asbestos >= 5µm	5.0
Dil: 1.0	Filter Size: 47 mm	Operator: Jon Swope	Nonasbestos	13.0
HQ45480		Cv = 0.61	Nonasbestos >= 5µm	0.0
			% Wt of largest asbestos structure	%

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1	1	2.6	0.3	Amphibole		MgSiCaFe	16531C	Image1	Diff1	Acti	Cle
1	2	1.2	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
1	3	13.3	0.1	Amphibole	M	MgSiCaFe	16532C	Image2	Diff2	Acti	Asb
1	4	1.2	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
2	1	4.1	0.45	Amphibole		MgSiCaFe			X	Acti	Cle
2	2	3.1	0.1	Amphibole	F	MgSiCaFe			X	Acti	Asb
2	3	1.2	0.15	Amphibole		MgSiCaFe			X	Acti	Cle
2	4	3.4	0.25	Amphibole		MgSiCaFe			X	Acti	Cle
3	1	7.1	0.2	Amphibole	F	MgSiCaFe			X	Acti	Asb
3	2	5.4	0.18	Amphibole	M	MgSiCaFe			X	Acti	Asb
4	1	2.6	0.4	Amphibole		MgSiCaFe			X	Acti	Cle
4	2	8.2	0.1	Amphibole	F	MgSiCaFe			X	Acti	Asb
5	1	4.1	0.05	Amphibole	F	MgSiCaFe			X	Acti	Asb
5	2	1.3	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
5	3	5.1	0.1	Amphibole	F	MgSiCaFe			X	Acti	Asb
6	1	1.5	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
6	2	2.3	0.4	Amphibole		MgSiCaFe			X	Acti	Cle
7	1	1.5	0.22	Amphibole		MgSiCaFe			X	Acti	Cle
8				NSD							
9	1	1.2	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
9	2	2.5	0.4	Amphibole		MgSiCaFe			X	Acti	Cle
10				NSD							

10% Particulate

Analyst's Comments: N/A

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 7/23/2020 1:17:58 PM approve by Jon Swope

Final Review: 7/28/20 12:26 PM approve by Ashleigh Sload

RJL: LLH901997-26	3158815.HTA1	Microscope tem2000fx1	Grid Openings	25
#2 - CB-1 #3	K & L Gates	Magnification 10 KX	Asbestos	5.0
Wt: 0.0005 gm	Grid: 0.0088 mm ²	Acc. Voltage 120 KV	Nonasbestos	4.0
Dil: 1.0	Filter Size: 47 mm	Operator: Jon Swope	% Wt of largest asbestos structure	%
HQ45480		Cv = 0.24		

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1				NSD							
2	1	12.9	0.1	Amphibole	F	MgSiCaFe	16533C	Image1	Diff1	Acti	Asb
3	1	13.8	0.4	Amphibole	B	MgSiCaFe			X	Acti	Asb
4				NSD							
5				NSD							
6				NSD							
7				NSD							
8				NSD							
9	1	15.4	0.1	Amphibole	F	MgSiCaFe			X	Acti	Asb
9	2	22.2	0.5	Amphibole	B	MgSiCaFe			X	Acti	Asb
10	1	5.3	0.6	Amphibole		MgSiCaFe			X	Acti	Cle
11				NSD							
12				NSD							
13	1	6.8	0.55	Amphibole		MgSiCaFe			X	Acti	Cle
14				NSD							
15				NSD							
16	1	5.9	0.5	Amphibole		MgSiCaFe			X	Acti	Cle
17				NSD							
18				NSD							
19	1	10.4	0.4	Amphibole	B	MgSiCaFe			X	Acti	Asb
20				NSD							
21				NSD							
22				NSD							
23				NSD							
24	1	5.2	0.5	Amphibole		MgSiCaFe			X	Acti	Cle
25				NSD							

10% Particulate

Analyst's Comments: N/A

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 7/23/2020 1:39:27 PM approve by Jon Swope

Final Review: 7/28/20 12:27 PM approve by Ashleigh Sload

Final Laboratory Report

TEM Bulk Protocol

Attention: David Raphael
K & L Gates
17 North Second Street
Harrisburg, PA 17101
US

Report Date: 07/28/2020
Sample Receipt Date:
RJ Lee Group Job No.: LLH901997-26
Authorization/P.O. No.:
Samples Received: 1
Client Job No.:

Method: ISO 22262-2

TABLE 1 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos

Client Sample Number	RJLG Sample Number	Total Structures				-----Weight Percent----- Total Structures Analytical Sensitivity			
		Chry	Amph	Cleavage	Non Asbestos	Chry	Amph Asb	Amph Cleavage Fragment	Non Asbestos
#2 - CB-1 #3	3158815	0	12	17	0	< 2.0E-6 2.0E-6	2.0E-2 1.6E-6	2.4E-2 1.6E-6	< 1.5E-6 1.5E-6

NOTES

- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2×10^{-3} ng/ μ m³, density of chrysotile: 2.55×10^{-3} ng/ μ m³, density of non-asbestos: 3.00×10^{-3} ng/ μ m³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
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RJ Lee Group Job No: LLH901997-26
 Client Job No/Name:

Client: K & L Gates
 Report Date: 07/28/2020

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos 5 μm

Client Sample Number	RJLG Sample Number	-----Structures 5 μm-----				-----Weight Percent----- Structures 5 μm Analytical Sensitivity			
		Chry	Amph	Cleavage	Non-Asbestos	Amphibole			
						Chry	Asb	Cleavage Fragment	Non-Asbestos
#2 - CB-1 #3	3158815	0	10	4	0	<u>< 2.0E-5</u> 2.0E-5	<u>2.0E-2</u> 1.6E-5	<u>1.1E-2</u> 1.6E-5	<u>< 1.5E-5</u> 1.5E-5

NOTES

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- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2 * 10⁻³ ng/ μ m³, density of chrysotile: 2.55 * 10⁻³ ng/ μ m³, density of non-asbestos: 3.00 * 10⁻³ ng/ μ m³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
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RJ Lee Group, Inc.

RJ Lee Group Job No: LLH901997-26
Client Job No/Name:

Final Laboratory Report (cont'd)

Client: K & L Gates
Report Date: 07/28/2020

Client Sample Number	RJLG Sample Number	Material Used (gm)	Area Analyzed Total (mm ²)	Area Analyzed 5 μm (mm ²)	Effective Filter Area (mm ²)	Dilution Factor
#2 - CB-1 #3	3158815	0.0005	0.30731	0.30731	1220	1.0

Authorized Signature: 
Ashleigh Sload, Scientist

NOTES

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- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2×10^{-3} ng/μm³, density of chrysotile: 2.55×10^{-3} ng/μm³, density of non-asbestos: 3.00×10^{-3} ng/μm³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
- These results are submitted pursuant to RJ Lee Group'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 these results are used or interpreted.

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RJ Lee Group, Inc
LLH901997-26
3158815.HTA1

K & L Gates
#2 - CB-1 #3

23-Jul-20

Air volume:
Area of collection filter:
Volume flowrate:
Level of analysis (chrysotile): NA
Level of analysis (amphibole): AZQ
Magnification used for structure counting:
Aspect ratio for fibre definition: 3:1
Mean dimension of grid openings: 0.00878032
Initials of analyst: JS
Number of grid openings examined: 35
Analytical sensitivity:
Number of primary asbestos structures: 29
Number of asbestos structures counted: 29
Number of asbestos structures >5 µm: 16
Number of fibres and bundles > 5 µm: 12
Number of PCM equivalent asbestos structures: 9
Number of PCM equivalent asbestos fibres: 4

TEM asbestos structure count					
Report Number:	LLH901997-26			Sample Weight:	0.0005
Sample Number:	3158815.HTA1			Filter area (mm ²):	1220
Sample Description:	#2 - CB-1 #3			Magnification:	10/20 KX
				Grid opening dimension (mm ²)	0.00878032
Preparation date:	07/20/20	By:	MK		
Analysis date:	07/23/20	By:	JS	Level of analysis (chrysotile)	NA
Computer entry date:	08/8/20	By:	MMK	Level of analysis (amphibole)	AZQ

Grid	Grid Opening	Structures		Identification	Structure type	Length (µm)	Width (µm)	Fibre Type	Comments
		primary	total						
1	H1	1	1	AZQ	F	2.6	0.3	Actinolite	
		2	2	ADX	F	1.2	0.2	Actinolite	
		3		AZQ	MD11	16.2	2		
		3		AZQ	MF	13.3	0.1	Actinolite	
		4	4	ADX	F	1.2	0.2	Actinolite	
	H3	5	5	ADX	F	4.1	0.45	Actinolite	
		6	6	ADX	F	3.1	0.1	Actinolite	
		7	7	ADX	F	1.2	0.15	Actinolite	
		8	8	ADX	F	3.4	0.25	Actinolite	
	H5	9	9	ADX	F	7.1	0.2	Actinolite	
		10		ADX	MD11	5.4	1	Actinolite	
		10			MF	5.4	0.18	Actinolite	
	H7	11	11	ADX	F	2.6	0.4	Actinolite	
		12	12	ADX	F	8.2	0.1	Actinolite	
	H9	13	13	ADX	F	4.1	0.05	Actinolite	
14		14	ADX	F	1.3	0.2	Actinolite		
15		15	ADX	F	5.1	0.1	Actinolite		
B1			No Fibres						
B3	16	16	AZQ	F	25.8	0.1	Actinolite		
B5	17	17	ADX	B	13.8	0.4	Actinolite		
B7			No Fibres						
B9			No Fibres						
D9			No Fibres						
D7			No Fibres						
D5			No Fibres						
D3	18	18	ADX	F	15.4	0.1	Actinolite		
	19	19	ADX	B	22.2	0.5	Actinolite		
D1	20	20	ADX	F	5.3	0.6	Actinolite		
F1			No Fibres						
F3			No Fibres						
2	F7	21	21	ADX	F	6.8	0.55	Actinolite	
	B1			No Fibres					
	B3			No Fibres					
	B5	22	22	ADX	F	5.9	0.5	Actinolite	
	B7			No Fibres					
	B9			No Fibres					
	D9	23	23	ADX	B	10.4	0.4	Actinolite	
	D7			No Fibres					
D5			No Fibres						
D3			No Fibres						
D1			No Fibres						
F1	24	24	ADX	F	5.2	0.5	Actinolite		
F3			No Fibres						

TEM asbestos structure count					
Report Number:	LLH901997-26				
Sample Number:	3158815.HTA1		Sample Weight:	0.0005	
Sample Description:	#2 - CB-1 #3		Filter area (mm2):	1220	
			Magnification:	10/20 KX	
			Grid opening dimension (mm2)	0.00878032	
Preparation date:	07/20/20	By:	MK		
Analysis date:	07/23/20	By:	JS	Level of analysis (chrysotile)	NA
Computer entry date:	08/8/20	By:	MMK	Level of analysis (amphibole)	AZQ

Grid	Grid Opening	Structues		Identification	Structure type	Length (µm)	Width (µm)	Fibre Type	Comments
		primary	total						
	I1	25	25	ADX	F	1.5	0.3	Actinolite	
		26	26	ADX	F	2.3	0.4	Actinolite	
	I3	27	27	ADX	F	1.5	0.22	Actinolite	
	I5			No Fibres					
	I7	28	28	ADX	F	1.2	0.2	Actinolite	
		29	29	ADX	F	2.5	0.4	Actinolite	
	I9			No Fibres					

Final Laboratory Report

TEM Bulk Protocol

Attention: David Raphael
K & L Gates
17 North Second Street
Harrisburg, PA 17101
US

Report Date: 08/13/2020
Sample Receipt Date:
RJ Lee Group Job No.: LLH901997-26
Authorization/P.O. No.:
Samples Received: 1
Client Job No.:

Method: EPA/R-93/600/116

TABLE 1 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos

Client Sample Number	RJLG Sample Number	<u>Total Structures</u>				-----Weight Percent----- <u>Total Structures</u> Analytical Sensitivity			
		Chry	Amph	Cleavage	Non Asbestos	Chry	Amph Asb	Amph Cleavage Fragment	Non Asbestos
#3 - CB-2 #4	3158816	0	29	48	0	< 1.0E-5 1.0E-5	9.4E-2 1.3E-5	6.2E-1 8.0E-6	< 7.5E-6 7.5E-6

NOTES

1. "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
2. Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
3. If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
4. Density of amphibole: 3.2×10^{-3} ng/ μ m³, density of chrysotile: 2.55×10^{-3} ng/ μ m³, density of non-asbestos: 3.00×10^{-3} ng/ μ m³.
5. Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
6. Samples will be held for 90 days and then disposed of per Federal regulations.
7. These results are submitted pursuant to RJ Lee Group'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 these results are used or interpreted.

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RJ Lee Group Job No: LLH901997-26
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/13/2020

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos 5 μm

Client Sample Number	RJLG Sample Number	-----Structures 5 μm-----				-----Weight Percent----- Structures 5 μm Analytical Sensitivity			
		Chry	Amph	Cleavage	Non-Asbestos	Amphibole			
						Chry	Asb	Cleavage Fragment	Non-Asbestos
#3 - CB-2 #4	3158816	0	13	15	0	<u>≤ 1.0E-4</u> 1.0E-4	<u>7.2E-2</u> 1.3E-4	<u>5.2E-1</u> 8.0E-5	<u>≤ 7.5E-5</u> 7.5E-5

NOTES

- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2 * 10⁻³ ng/ μ m³, density of chrysotile: 2.55 * 10⁻³ ng/ μ m³, density of non-asbestos: 3.00 * 10⁻³ ng/ μ m³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
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RJ Lee Group, Inc.

RJ Lee Group Job No: LLH901997-26
Client Job No/Name:

Final Laboratory Report (cont'd)

Client: K & L Gates
Report Date: 08/13/2020

Client Sample Number	RJLG Sample Number	Material Used (gm)	Area Analyzed Total (mm ²)	Area Analyzed 5 μm (mm ²)	Effective Filter Area (mm ²)	Dilution Factor
#3 - CB-2 #4	3158816	0.0001	0.30594	0.30594	1220	1.0

Authorized Signature: 
Ashleigh Sload, Scientist

NOTES

- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2×10^{-3} ng/μm³, density of chrysotile: 2.55×10^{-3} ng/μm³, density of non-asbestos: 3.00×10^{-3} ng/μm³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
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RJL: LLH901997-26	3158816.HTA4	Microscope tem2000fx2	Grid Openings	10
#3 - CB-2 #4	K & L Gates	Magnification 20 KX	Asbestos	24.0
Wt: 0.0001 gm	Grid: 0.0087 mm ²	Acc. Voltage 120 KV	Asbestos >= 5µm	8.0
Dil: 1.	Filter Size: 47 mm	Operator: Jon Swope	Nonasbestos	34.0
HQ45555		Cv = 0.64	Nonasbestos >= 5µm	1.0
			% Wt of largest asbestos structure	%

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1	1	0.95	0.1	Amphibole		MgSiCaFeAl	15877D	Image13	Diff9	Acti	Cle
1	2	1	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
1	3	3.5	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
1	4	14.2	0.2	Amphibole	F	MgSiCaFe			X	Acti	Asb
1	5	1.3	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
1	6	2.4	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
1	7	0.7	0.1	Amphibole		MgSiCaFe			X	Acti	Cle
1	8	4.9	0.4	Amphibole		MgSiCaFe			X	Acti	Cle
1	9	2.5	0.05	Amphibole	F	MgSiCaFe			X	Acti	Asb
1	10	1.8	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
2	1	2.5	0.05	Amphibole	F	MgSiCaFe			X	Acti	Asb
2	2	1.6	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
2	3	1.4	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
3	1	4.75	0.2	Amphibole	B	MgSiCaFe	15878D	Image14 Image15	Diff10	Acti	Asb
3	2	3.2	0.05	Amphibole	F	MgSiCaFe			X	Acti	Asb
3	3	1.5	0.05	Amphibole	F	MgSiCaFe			X	Acti	Asb
3	4	3.5	0.1	Amphibole	F	MgSiCaFe			X	Acti	Asb
3	5	2.5	0.25	Amphibole		MgSiCaFe			X	Acti	Cle
3	6	0.9	0.1	Amphibole		MgSiCaFe			X	Acti	Cle
3	7	1.2	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
4	1	7.9	0.1	Amphibole	F	MgSiCaFe			X	Acti	Asb
4	2	5.4	0.1	Amphibole	F	MgSiCaFe			X	Acti	Asb
4	3	1.4	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
4	4	3.2	0.25	Amphibole		MgSiCaFe			X	Acti	Cle
4	5	1.8	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
5	1	4.8	0.18	Amphibole	F	MgSiCaFe	15879D	Image18	Diff11	Acti	Asb
5	2	1.4	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
5	3	2.4	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
5	4	1.3	0.4	Amphibole		MgSiCaFe			X	Acti	Cle
5	5	13.7	0.2	Amphibole	F	MgSiCaFe			X	Acti	Asb
5	6	1.1	0.1	Amphibole	F	MgSiCaFe			X	Acti	Asb
5	7	2.2	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
5	8	3.2	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
6	1	5.4	0.2	Amphibole	F	MgSiCaFe			X	Acti	Asb
6	2	1.65	0.4	Amphibole		MgSiCaFeAl	15880D	Image19	Diff12	Acti	Cle
6	3	4.1	0.1	Amphibole	F	MgSiCaFe			X	Acti	Asb
7	1	4.7	0.05	Amphibole	F	MgSiCaFe			X	Acti	Asb
7	2	1.2	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
7	3	3.6	0.1	Amphibole	F	MgSiCaFe			X	Acti	Asb
7	4	2.2	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
7	5	4.9	0.1	Amphibole	F	MgSiCaFe			X	Acti	Asb
7	6	1.2	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
7	7	2.8	0.3	Amphibole		MgSiCaFe			X	Acti	Cle

RJ Lee Group, Inc.
TEM Count Sheet

RJL: LLH901997-26	3158816.HTA4	Microscope tem2000fx2	Grid Openings	10
#3 - CB-2 #4	K & L Gates	Magnification 20 KX	Asbestos	24.0
Wt: 0.0001 gm	Grid: 0.0087 mm ²	Acc. Voltage 120 KV	Asbestos >= 5µm	8.0
Dil: 1.	Filter Size: 47 mm	Operator: Jon Swope	Nonasbestos	34.0
HQ45555		Cv = 0.64	Nonasbestos >= 5µm	1.0
			% Wt of largest asbestos structure	%

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
8	1	7.9	0.05	Amphibole	F	MgSiCaFe	15881D	Image20	Diff13	Acti	Asb
8	2	1.2	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
8	3	1.5	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
8	4	3.6	0.1	Amphibole	F	MgSiCaFe			X	Acti	Asb
9	1	5.3	0.5	Amphibole		MgSiCaFe			X	Acti	Cle
9	2	3.2	0.05	Amphibole	F	MgSiCaFe			X	Acti	Asb
9	3	2.2	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
9	4	2.1	0.05	Amphibole	F	MgSiCaFe			X	Acti	Asb
9	5	3.4	0.1	Amphibole	F	MgSiCaFe			X	Acti	Asb
9	6	4.8	0.25	Amphibole		MgSiCaFe			X	Acti	Cle
10	1	1.5	0.25	Amphibole		MgSiCaFe			X	Acti	Cle
10	2	1.3	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
10	3	6.9	0.1	Amphibole	F	MgSiCaFe	15882D	Image21	Diff14	Acti	Asb
10	4	27.6	0.12	Amphibole	F	MgSiCaFe			X	Acti	Asb
10	5	1.4	0.22	Amphibole		MgSiCaFe			X	Acti	Cle

8% Particulate

Analyst's Comments: N/A

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 7/22/2020 8:20:06 AM approve by Jacquelyn Mershon

Final Review: 8/13/20 2:05 PM approve by Ashleigh Sload

RJL: LLH901997-26	3158816.HTA4	Microscope tem2000fx2	Grid Openings	25
#3 - CB-2 #4	K & L Gates	Magnification 10 KX	Asbestos	5.0
Wt: 0.0001 gm	Grid: 0.0087 mm ²	Acc. Voltage 120 KV	Nonasbestos	14.0
Dil: 1.	Filter Size: 47 mm	Operator: Jon Swope	% Wt of largest asbestos structure	%
HQ45555		Cv = 0.24		

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1	1	10.1	0.65	Amphibole		MgSiCaFe	15883D	Image7	Diff6	Acti	Cle
1	2	7.2	0.9	Amphibole		MgSiCaFe			X	Acti	Cle
2	1	8.7	0.9	Amphibole		MgSiCaFe			X	Acti	Cle
3				NSD							
4	1	5.7	0.7	Amphibole		MgSiCaFe			X	Acti	Cle
5	1	8.5	0.8	Amphibole		MgSiCaFe			X	Acti	Cle
6				NSD							
7	1	5.1	0.5	Amphibole		MgSiCaFe			X	Acti	Cle
8				NSD							
9	1	5.2	0.5	Amphibole		MgSiCaFe			X	Acti	Cle
10				NSD							
11	1	9.6	0.7	Amphibole		MgSiCaFe			X	Acti	Cle
11	2	7.8	0.5	Amphibole		MgSiCaFe			X	Acti	Cle
12				NSD							
13				NSD							
14	1	7.1	0.1	Amphibole	F	MgSiCaFe	15884D	Image8	Diff7	Acti	Asb
15	1	12.6	0.9	Amphibole		MgSiCaFe			X	Acti	Cle
15	2	5.9	0.05	Amphibole	F	MgSiCaFe			X	Acti	Asb
15	3	11.2	0.1	Amphibole	F	MgSiCaFe			X	Acti	Asb
16				NSD							
17	1	9.7	0.6	Amphibole		MgSiCaFe			X	Acti	Cle
18	1	7.5	0.8	Amphibole		MgSiCaFe			X	Acti	Cle
18	2	11.6	0.1	Amphibole	F	MgSiCaFe			X	Acti	Asb
19				NSD							
20	1	9.4	0.1	Amphibole	F	MgSiCaFe			X	Acti	Asb
21				NSD							
22	1	6.3	0.5	Amphibole		MgSiCaFe			X	Acti	Cle
23				NSD							
24				NSD							
25	1	8.6	0.5	Amphibole		MgSiCaFe			X	Acti	Cle

8% Particulate

Analyst's Comments: N/A

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 7/22/2020 9:12:42 AM approve by Jacquelyn Mershon

Final Review: 8/13/20 2:05 PM approve by Ashleigh Sload

Final Laboratory Report

TEM Bulk Protocol

Attention: David Raphael
K & L Gates
17 North Second Street
Harrisburg, PA 17101
US

Report Date: 08/13/2020
Sample Receipt Date:
RJ Lee Group Job No.: LLH901997-26
Authorization/P.O. No.:
Samples Received: 1
Client Job No.:

Method: ISO 22262-2

TABLE 1 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos

Client Sample Number	RJLG Sample Number	Total Structures				-----Weight Percent----- Total Structures Analytical Sensitivity			
		Chry	Amph	Cleavage	Non Asbestos	Chry	Amph Asb	Amph Cleavage Fragment	Non Asbestos
#3 - CB-2 #4	3158816	0	29	48	0	< 1.0E-5 1.0E-5	6.0E-2 8.0E-6	6.2E-1 8.0E-6	< 7.5E-6 7.5E-6

NOTES

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- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2×10^{-3} ng/ μ m³, density of chrysotile: 2.55×10^{-3} ng/ μ m³, density of non-asbestos: 3.00×10^{-3} ng/ μ m³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
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RJ Lee Group Job No: LLH901997-26
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/13/2020

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos 5 μm

Client Sample Number	RJLG Sample Number	-----Structures 5 μm-----				-----Weight Percent----- Structures 5 μm Analytical Sensitivity			
		Chry	Amph	Cleavage	Non-Asbestos	Amphibole			
						Chry	Asb	Cleavage Fragment	Non-Asbestos
#3 - CB-2 #4	3158816	0	13	15	0	<u>< 1.0E-4</u> 1.0E-4	<u>4.6E-2</u> 8.0E-5	<u>5.2E-1</u> 8.0E-5	<u>< 7.5E-5</u> 7.5E-5

NOTES

- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2×10^{-3} ng/μm³, density of chrysotile: 2.55×10^{-3} ng/μm³, density of non-asbestos: 3.00×10^{-3} ng/μm³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
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RJ Lee Group, Inc.

Final Laboratory Report (cont'd)

RJ Lee Group Job No: LLH901997-26
Client Job No/Name:

Client: K & L Gates
Report Date: 08/13/2020

Client Sample Number	RJLG Sample Number	Material Used (gm)	Area Analyzed Total (mm ²)	Area Analyzed 5 μm (mm ²)	Effective Filter Area (mm ²)	Dilution Factor
#3 - CB-2 #4	3158816	0.0001	0.30594	0.30594	1220	1.0

Authorized Signature: 
Ashleigh Sload, Scientist

NOTES

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RJ Lee Group, Inc
LLH901997-26
3158816.HTA1

K & L Gates
#3 - CB-2 #4

22-Jul-20

Air volume:
Area of collection filter:
Volume flowrate:
Level of analysis (chrysotile): NA
Level of analysis (amphibole): AZQ
Magnification used for structure counting:
Aspect ratio for fibre definition: 3:1
Mean dimension of grid openings: 0.00874123
Initials of analyst: JM
Number of grid openings examined: 35
Analytical sensitivity:
Number of primary asbestos structures: 76
Number of asbestos structures counted: 76
Number of asbestos structures >5 µm: 27
Number of fibres and bundles > 5 µm: 27
Number of PCM equivalent asbestos structures: 14
Number of PCM equivalent asbestos fibres: 14

TEM asbestos structure count					
Report Number:	LLH901997-26			Sample Weight:	0.0001
Sample Number:	3158816.HTA1			Filter area (mm ²):	1220
Sample Description:	#3 - CB-2 #4			Magnification:	10/20 KX
				Grid opening dimension (mm ²)	0.00874123
Preparation date:	07/20/20	By:	MK		
Analysis date:	07/22/20	By:	JM	Level of analysis (chrysotile)	NA
Computer entry date:	08/8/20	By:	MMK	Level of analysis (amphibole)	AZQ

Grid	Grid Opening	Structures		Identification	Structure type	Length (µm)	Width (µm)	Fibre Type	Comments
		primary	total						
1	11	1	1	AZQ	F	0.95	0.1	Actinolite	
		2	2	ADX	F	1	0.2	Actinolite	
		3	3	ADX	F	3.5	0.2	Actinolite	
		4	4	ADX	F	14.2	0.2	Actinolite	
		5	5	ADX	F	1.3	0.2	Actinolite	
		6	6	ADX	F	2.4	0.3	Actinolite	
		7	7	ADX	F	0.7	0.1	Actinolite	
		8	8	ADX	F	4.9	0.4	Actinolite	
		9	9	ADX	F	2.5	0.05	Actinolite	
		10	10	ADX	F	1.8	0.2	Actinolite	
	13	11	11	ADX	F	2.5	0.05	Actinolite	
		12	12	ADX	F	1.6	0.2	Actinolite	
		13	13	ADX	F	1.4	0.2	Actinolite	
	15	14	14	AZQ	F	4.75	0.2	Actinolite	
		15	15	ADX	F	3.2	0.05	Actinolite	
		16	16	ADX	F	1.5	0.05	Actinolite	
		17	17	ADX	F	3.5	0.1	Actinolite	
		18	18	ADX	F	2.5	0.25	Actinolite	
		19	19	ADX	F	0.9	0.1	Actinolite	
		20	20	ADX	F	1.2	0.2	Actinolite	
	17	21	21	ADX	F	7.9	0.1	Actinolite	
		22	22	ADX	F	5.4	0.1	Actinolite	
		23	23	ADX	F	1.4	0.2	Actinolite	
		24	24	ADX	F	3.2	0.25	Actinolite	
		25	25	ADX	F	1.8	0.2	Actinolite	
	19	26	26	AZQ	F	4.8	0.18	Actinolite	
		27	27	ADX	F	1.4	0.2	Actinolite	
		28	28	ADX	F	2.4	0.3	Actinolite	
		29	29	ADX	F	1.3	0.4	Actinolite	
		30	30	ADX	F	13.7	0.2	Actinolite	
		31	31	ADX	F	1.1	0.1	Actinolite	
		32	32	ADX	F	2.2	0.2	Actinolite	
		33	33	ADX	F	3.2	0.3	Actinolite	
2	H1	34	34	ADX	F	5.4	0.2	Actinolite	
		35	35	AZQ	F	1.65	0.4	Actinolite	
		36	36	ADX	F	4.1	0.1	Actinolite	
	H3	37	37	ADX	F	4.7	0.05	Actinolite	
		38	38	ADX	F	1.2	0.2	Actinolite	
		39	39	ADX	F	3.6	0.1	Actinolite	
		40	40	ADX	F	2.2	0.3	Actinolite	
		41	41	ADX	F	4.9	0.1	Actinolite	
		42	42	ADX	F	1.2	0.2	Actinolite	
		43	43	ADX	F	2.8	0.3	Actinolite	

TEM asbestos structure count					
Report Number:	LLH901997-26				
Sample Number:	3158816.HTA1		Sample Weight:	0.0001	
Sample Description:	#3 - CB-2 #4		Filter area (mm ²):	1220	
			Magnification:	10/20 KX	
			Grid opening dimension (mm ²)	0.00874123	
Preparation date:	07/20/20	By:	MK		
Analysis date:	07/22/20	By:	JM	Level of analysis (chrysotile)	NA
Computer entry date:	08/8/20	By:	MMK	Level of analysis (amphibole)	AZQ

Grid	Grid Opening	Structures		Identification	Structure type	Length (µm)	Width (µm)	Fibre Type	Comments
		primary	total						
	H5	44	44	AZQ	F	7.9	0.05	Actinolite	
		45	45	ADX	F	1.2	0.2	Actinolite	
		46	46	ADX	F	1.5	0.3	Actinolite	
		47	47	ADX	F	3.6	0.1	Actinolite	
	H7	48	48	ADX	F	5.3	0.5	Actinolite	
		49	49	ADX	F	3.2	0.05	Actinolite	
		50	50	ADX	F	2.2	0.3	Actinolite	
		51	51	ADX	F	2.1	0.05	Actinolite	
		52	52	ADX	F	3.4	0.1	Actinolite	
		53	53	ADX	F	4.8	0.25	Actinolite	
	H9	54	54	ADX	F	1.5	0.25	Actinolite	
		55	55	ADX	F	1.3	0.2	Actinolite	
		56	56	AZQ	F	6.9	0.1	Actinolite	
		57	57	ADX	F	27.6	0.12	Actinolite	
		58	58	ADX	F	1.4	0.22	Actinolite	
1	B1	59	59	AZQ	F	10.1	0.65	Actinolite	
		60	60	ADX	F	7.2	0.9	Actinolite	
	B3	61	61	ADX	F	8.7	0.9	Actinolite	
	B5			No Fibres					
	B7	62	62	ADX	F	5.7	0.7	Actinolite	
	B9	63	63	ADX	F	8.5	0.8	Actinolite	
	D9			No Fibres					
	D7	64	64	ADX	F	5.2	0.5	Actinolite	
	D5			No Fibres					
	D3	65	65	ADX	F	9.6	0.7	Actinolite	
		66	66	ADX	F	7.8	0.5	Actinolite	
	D1			No Fibres					
	F1			No Fibres					
	F3			No Fibres					
	F7			No Fibres					
2	B1	67	67	AZQ	F	7.1	0.1	Actinolite	
	B3	68	68	ADX	F	12.6	0.9	Actinolite	
		69	69	ADX	F	5.9	0.05	Actinolite	
		70	70	ADX	F	11.2	0.1	Actinolite	
	B5			No Fibres					
	B7	71	71	ADX	F	9.7	0.6	Actinolite	
	B9	72	72	ADX	F	7.5	0.8	Actinolite	
		73	73	ADX	F	11.6	0.1	Actinolite	
	D9			No Fibres					
	D7	74	74	ADX	F	9.4	0.1	Actinolite	
	D5			No Fibres					
	D3	75	75	ADX	F	6.3	0.5	Actinolite	
	D1			No Fibres					

TEM asbestos structure count					
Report Number:	LLH901997-26				
Sample Number:	3158816.HTA1		Sample Weight:	0.0001	
Sample Description:	#3 - CB-2 #4		Filter area (mm ²):	1220	
			Magnification:	10/20 KX	
			Grid opening dimension (mm ²)	0.00874123	
Preparation date:	07/20/20	By:	MK		
Analysis date:	07/22/20	By:	JM	Level of analysis (chrysotile)	NA
Computer entry date:	08/8/20	By:	MMK	Level of analysis (amphibole)	AZQ

Grid	Grid Opening	Structues		Identification	Structure type	Length (µm)	Width (µm)	Fibre Type	Comments
		primary	total						
	F1			No Fibres					
	F3	76	76	ADX	F	8.6	0.5	Actinolite	

Final Laboratory Report

TEM Bulk Protocol

Attention: David Raphael
K & L Gates
17 North Second Street
Harrisburg, PA 17101
US

Report Date: 07/23/2020
Sample Receipt Date:
RJ Lee Group Job No.: LLH901997-26
Authorization/P.O. No.:
Samples Received: 1
Client Job No.:

Method: EPA/R-93/600/116

TABLE 1 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos

Client Sample Number	RJLG Sample Number	Total Structures				-----Weight Percent----- Total Structures Analytical Sensitivity			
		Chry	Amph	Cleavage	Non Asbestos	Chry	Amph Asb	Amph Cleavage Fragment	Non Asbestos
#4 - CB-2 #5	3158817	0	81	24	0	< 2.0E-5 2.0E-5	2.4E0 2.6E-5	1.1E0 1.6E-5	< 1.5E-5 1.5E-5

NOTES

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RJ Lee Group Job No: LLH901997-26
 Client Job No/Name:

Client: K & L Gates
 Report Date: 07/23/2020

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos 5 µm

Client Sample Number	RJLG Sample Number	-----Structures 5 µm-----				-----Weight Percent----- Structures 5 µm Analytical Sensitivity			
		Chry	Amph	Cleavage	Non-Asbestos	Amphibole			
						Chry	Asb	Cleavage Fragment	Non-Asbestos
#4 - CB-2 #5	3158817	0	35	3	0	<u>< 2.0E-4</u> 2.0E-4	<u>2.3E0</u> 2.6E-4	<u>6.9E-1</u> 1.6E-4	<u>< 1.5E-4</u> 1.5E-4

NOTES

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RJ Lee Group, Inc.

RJ Lee Group Job No: LLH901997-26
Client Job No/Name:

Final Laboratory Report (cont'd)

Client: K & L Gates
Report Date: 07/23/2020

Client Sample Number	RJLG Sample Number	Material Used (gm)	Area Analyzed Total (mm ²)	Area Analyzed 5 μm (mm ²)	Effective Filter Area (mm ²)	Dilution Factor
#4 - CB-2 #5	3158817	0.00005	0.30594	0.30594	1220	1.0

Authorized Signature: 
Ashleigh Sload, Scientist

NOTES

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RJL: LLH901997-26	3158817.HTA4	Microscope tem2000fx1	Grid Openings	10
#4 - CB-2 #5	K & L Gates	Magnification 21 KX	Asbestos	63.0
Wt: 0.0 gm	Grid: 0.0087 mm ²	Acc. Voltage 120 KV	Asbestos >= 5µm	17.0
Dil: 1.	Filter Size: 47 mm	Operator: Jon Swope	Nonasbestos	23.0
HQ45555		Cv = 1.81	Nonasbestos >= 5µm	2.0
			% Wt of largest asbestos structure	%

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1	1	2.9	0.12	Amphibole	F	MgSiCaFe	16515C	Image1	Diff1	Acti	Asb
1	2	2.1	0.1	Amphibole	F	MgSiCaFe			X	Acti	Asb
1	3	3.9	0.1	Amphibole	F	MgSiCaFe			X	Acti	Asb
1	4	1.2	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
1	5	4.1	0.1	Amphibole	F	MgSiCaFe			X	Acti	Asb
1	6	2.3	0.05	Amphibole	F	MgSiCaFe			X	Acti	Asb
1	7	9.1	0.1	Amphibole	F	MgSiCaFe			X	Acti	Asb
1	8	4.2	0.1	Amphibole	F	MgSiCaFe			X	Acti	Asb
1	9	2.3	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
1	10	6.5	0.1	Amphibole	F	MgSiCaFe			X	Acti	Asb
2	1	3.2	0.06	Amphibole	F	MgSiCaFe	16516C	Image2	Diff2	Acti	Asb
2	2	3.6	0.4	Amphibole		MgSiCaFe			X	Acti	Cle
2	3	1.2	0.05	Amphibole	F	MgSiCaFe			X	Acti	Asb
2	4	1.5	0.05	Amphibole	F	MgSiCaFe			X	Acti	Asb
2	5	2.1	0.1	Amphibole	F	MgSiCaFe			X	Acti	Asb
2	6	1.8	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
2	7	1.3	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
2	8	3.1	0.2	Amphibole	B	MgSiCaFe			X	Acti	Asb
2	9	1.5	0.05	Amphibole	F	MgSiCaFe			X	Acti	Asb
3	1	1.7	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
3	2	16.9	0.1	Amphibole	C	MgSiCaFe	16517C	Image3	Diff3	Acti	Asb
3	3	1.3	0.05	Amphibole	F	MgSiCaFe			X	Acti	Asb
3	4	2.7	0.1	Amphibole	F	MgSiCaFe			X	Acti	Asb
3	5	4.8	0.1	Amphibole	F	MgSiCaFe			X	Acti	Asb
3	6	13.6	0.05	Amphibole	F	MgSiCaFe			X	Acti	Asb
3	7	4.1	0.5	Amphibole		MgSiCaFe			X	Acti	Cle
4	1	1.9	0.5	Amphibole	F	MgSiCaFe			X	Acti	Asb
4	2	7.4	0.1	Amphibole	F	MgSiCaFe			X	Acti	Asb
4	3	6.4	0.2	Amphibole	B	MgSiCaFe			X	Acti	Asb
4	4	1.2	0.05	Amphibole	F	MgSiCaFe			X	Acti	Asb
4	5	3.7	0.1	Amphibole	F	MgSiCaFe			X	Acti	Asb
4	6	4.5	0.1	Amphibole	F	MgSiCaFe			X	Acti	Asb
4	7	7.45	0.15	Amphibole	F	MgSiCaFe	16518C	Image4	Diff4	Acti	Asb
5	1	3.2	0.05	Amphibole	F	MgSiCaFe			X	Acti	Asb
5	2	12.7	0.95	Amphibole		MgSiCaFe			X	Acti	Cle
5	3	1.5	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
5	4	4.7	0.1	Amphibole	F	MgSiCaFe			X	Acti	Asb
5	5	2.3	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
5	6	1.6	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
5	7	9.6	0.2	Amphibole	F	MgSiCaFe			X	Acti	Asb
5	8	1.5	0.05	Amphibole	F	MgSiCaFe			X	Acti	Asb
5	9	1.6	0.05	Amphibole	F	MgSiCaFe			X	Acti	Asb
5	10	2.8	0.4	Amphibole		MgSiCaFe			X	Acti	Cle
6	1	1.1	0.05	Amphibole	F	MgSiCaFe	16521C	Image5	Diff5	Acti	Asb

RJL: LLH901997-26	3158817.HTA4	Microscope tem2000fx1	Grid Openings	10
#4 - CB-2 #5	K & L Gates	Magnification 21 KX	Asbestos	63.0
Wt: 0.0 gm	Grid: 0.0087 mm ²	Acc. Voltage 120 KV	Asbestos >= 5µm	17.0
Dil: 1.	Filter Size: 47 mm	Operator: Jon Swope	Nonasbestos	23.0
HQ45555		Cv = 1.81	Nonasbestos >= 5µm	2.0
			% Wt of largest asbestos structure	%

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
6	2	7.5	0.3	Amphibole	F	MgSiCaFe			X	Acti	Asb
6	3	7.3	0.05	Amphibole	F	MgSiCaFe			X	Acti	Asb
6	4	4.6	0.2	Amphibole	F	MgSiCaFe			X	Acti	Asb
6	5	3.1	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
6	6	4.6	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
6	7	3.2	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
6	8	5.1	0.2	Amphibole	F	MgSiCaFe			X	Acti	Asb
7	1	3.5	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
7	2	2.7	0.1	Amphibole	F	MgSiCaFe			X	Acti	Asb
7	3	1.2	0.05	Amphibole	F	MgSiCaFe			X	Acti	Asb
7	4	7.1	0.05	Amphibole	F	MgSiCaFe			X	Acti	Asb
7	5	2.4	0.05	Amphibole	F	MgSiCaFe			X	Acti	Asb
7	6	1.3	0.05	Amphibole	F	MgSiCaFe			X	Acti	Asb
8	1	2.3	0.05	Amphibole	F	MgSiCaFe			X	Acti	Asb
8	2	2.3	0.05	Amphibole	F	MgSiCaFe			X	Acti	Asb
8	3	9.8	0.05	Amphibole	F	MgSiCaFe			X	Acti	Asb
8	4	7.4	0.1	Amphibole	F	MgSiCaFe	16522C	Image6	Diff6	Acti	Asb
8	5	1.5	0.05	Amphibole	F	MgSiCaFe			X	Acti	Asb
8	6	4.3	0.05	Amphibole	F	MgSiCaFe			X	Acti	Asb
8	7	3.2	0.1	Amphibole	F	MgSiCaFe			X	Acti	Asb
8	8	4.5	0.4	Amphibole		MgSiCaFe			X	Acti	Cle
8	9	2.9	0.05	Amphibole	F	MgSiCaFe			X	Acti	Asb
8	10	4.1	0.1	Amphibole	F	MgSiCaFe			X	Acti	Asb
9	1	3.5	0.4	Amphibole		MgSiCaFe			X	Acti	Cle
9	2	1.3	0.05	Amphibole	F	MgSiCaFe			X	Acti	Asb
9	3	2.4	0.05	Amphibole	F	MgSiCaFe			X	Acti	Asb
9	4	1.7	0.05	Amphibole	F	MgSiCaFe			X	Acti	Asb
9	5	1.9	0.05	Amphibole	F	MgSiCaFe	16523C	Image7	Diff7	Acti	Asb
9	6	6.8	0.05	Amphibole	F	MgSiCaFe			X	Acti	Asb
9	7	1.4	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
9	8	8.5	0.1	Amphibole	F	MgSiCaFe			X	Acti	Asb
9	9	3.4	0.05	Amphibole	F	MgSiCaFe			X	Acti	Asb
10	1	3.6	0.1	Amphibole	F	MgSiCaFe			X	Acti	Asb
10	2	2.3	0.05	Amphibole	F	MgSiCaFe			X	Acti	Asb
10	3	4.6	0.7	Amphibole		MgSiCaFe			X	Acti	Cle
10	4	3.2	0.1	Amphibole	F	MgSiCaFe			X	Acti	Asb
10	5	1.4	0.05	Amphibole	F	MgSiCaFe			X	Acti	Asb
10	6	1.8	0.35	Amphibole		MgSiCaFe	16524C	Image8	Diff8	Acti	Cle
10	7	4.2	0.4	Amphibole		MgSiCaFe			X	Acti	Cle
10	8	3.4	0.05	Amphibole	F	MgSiCaFe			X	Acti	Asb
10	9	6.4	0.1	Amphibole	F	MgSiCaFe			X	Acti	Asb
10	10	5.7	0.6	Amphibole		MgSiCaFe			X	Acti	Cle

8% Particulate

Analyst's Comments: N/A

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

RJ Lee Group, Inc.
TEM Count Sheet

RJL: LLH901997-26	3158817.HTA4	Microscope tem2000fx1	Grid Openings	10
#4 - CB-2 #5	K & L Gates	Magnification 21 KX	Asbestos	63.0
Wt: 0.0 gm	Grid: 0.0087 mm ²	Acc. Voltage 120 KV	Asbestos >= 5µm	17.0
Dil: 1.	Filter Size: 47 mm	Operator: Jon Swope	Nonasbestos	23.0
HQ45555		Cv = 1.81	Nonasbestos >= 5µm	2.0
			% Wt of largest asbestos structure	%

Initial Review: 7/22/2020 3:46:24 PM approve by Jon Swope
Final Review: 7/23/20 2:23 PM approve by Ashleigh Sload

RJL: LLH901997-26	3158817.HTA4	Microscope tem2000fx1	Grid Openings	25
#4 - CB-2 #5	K & L Gates	Magnification 10 KX	Asbestos	18.0
Wt: 0.0 gm	Grid: 0.0087 mm ²	Acc. Voltage 120 KV	Nonasbestos	1.0
Dil: 1.	Filter Size: 47 mm	Operator: Jon Swope	% Wt of largest asbestos structure	%
HQ45555		Cv = 0.842		

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1	1	10.1	0.1	Amphibole	F	MgSiCaFe	16513C	Image1	Diff1	Acti	Asb
1	2	5.6	0.1	Amphibole	F	MgSiCaFe			X	Acti	Asb
2				NSD							
3	1	5.1	0.1	Amphibole	F	MgSiCaFe			X	Acti	Asb
4				NSD							
5	1	8.4	0.1	Amphibole	F	MgSiCaFe			X	Acti	Asb
5	2	5.8	0.1	Amphibole	F	MgSiCaFe			X	Acti	Asb
5	3	7.9	0.1	Amphibole	F	MgSiCaFe			X	Acti	Asb
6				NSD							
7	1	16.7	0.1	Amphibole	F	MgSiCaFe			X	Acti	Asb
8				NSD							
9	1	11.1	0.3	Amphibole	B	MgSiCaFe			X	Acti	Asb
10				NSD							
11				NSD							
12				NSD							
13	1	42.3	0.3	Amphibole	F	MgSiCaFe			X	Acti	Asb
13	2	8.7	0.1	Amphibole	F	MgSiCaFe			X	Acti	Asb
14	1	10.8	0.2	Amphibole	F	MgSiCaFe			X	Acti	Asb
14	2	15.7	0.09	Amphibole	F	MgSiCaFe	16514C	Image2	Diff2	Acti	Asb
15				NSD							
16				NSD							
17	1	9.5	0.1	Amphibole	F	MgSiCaFe			X	Acti	Asb
17	2	8.2	0.05	Amphibole	F	MgSiCaFe			X	Acti	Asb
18				NSD							
19				NSD							
20				NSD							
21	1	12.6	2.2	Amphibole	B	MgSiCaFe			X	Acti	Asb
22	1	14.3	0.7	Amphibole	B	MgSiCaFe			X	Acti	Asb
22	2	8.1	0.2	Amphibole	F	MgSiCaFe			X	Acti	Asb
23	1	8.9	0.75	Amphibole		MgSiCaFe			X	Acti	Cle
24	1	7.1	0.1	Amphibole	F	MgSiCaFe			X	Acti	Asb
25				NSD							

8% Particulate

Analyst's Comments: N/A

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 7/22/2020 2:08:27 PM approve by Jon Swope

Final Review: 7/23/20 2:23 PM approve by Ashleigh Sload

Final Laboratory Report

TEM Bulk Protocol

Attention: David Raphael
K & L Gates
17 North Second Street
Harrisburg, PA 17101
US

Report Date: 07/23/2020
Sample Receipt Date:
RJ Lee Group Job No.: LLH901997-26
Authorization/P.O. No.:
Samples Received: 1
Client Job No.:

Method: ISO 22262-2

TABLE 1 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos

Client Sample Number	RJLG Sample Number	<u>Total Structures</u>				-----Weight Percent----- <u>Total Structures</u> Analytical Sensitivity			
		Chry	Amph	Cleavage	Non Asbestos	Chry	Amph Asb	Amph Cleavage Fragment	Non Asbestos
#4 - CB-2 #5	3158817	0	81	24	0	<u>< 2.0E-5</u> 2.0E-5	<u>1.5E0</u> 1.6E-5	<u>1.1E0</u> 1.6E-5	<u>< 1.5E-5</u> 1.5E-5

NOTES

1. "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
2. Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
3. If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
4. Density of amphibole: 3.2×10^{-3} ng/ μ m³, density of chrysotile: 2.55×10^{-3} ng/ μ m³, density of non-asbestos: 3.00×10^{-3} ng/ μ m³.
5. Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
6. Samples will be held for 90 days and then disposed of per Federal regulations.
7. These results are submitted pursuant to RJ Lee Group'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 these results are used or interpreted.

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These results are submitted pursuant to RJ Lee Group's current terms and conditions of sale, including the company's standard warranty and limiting provisions and 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, RJ Lee Group will store the samples for a period of ninety (90) days before discarding. A shipping and handling fee will be assessed for the return of any sample.

RJ Lee Group Job No: LLH901997-26
 Client Job No/Name:

Client: K & L Gates
 Report Date: 07/23/2020

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos 5 μm

Client Sample Number	RJLG Sample Number	-----Structures 5 μm-----				-----Weight Percent----- Structures 5 μm Analytical Sensitivity			
		Chry	Amph	Cleavage	Non-Asbestos	Amphibole			
						Chry	Asb	Cleavage Fragment	Non-Asbestos
#4 - CB-2 #5	3158817	0	35	3	0	<u>< 2.0E-4</u> 2.0E-4	<u>1.4E0</u> 1.6E-4	<u>6.9E-1</u> 1.6E-4	<u>< 1.5E-4</u> 1.5E-4

NOTES

- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2 * 10⁻³ ng/ μ m³, density of chrysotile: 2.55 * 10⁻³ ng/ μ m³, density of non-asbestos: 3.00 * 10⁻³ ng/ μ m³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
- These results are submitted pursuant to RJ Lee Group'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 these results are used or interpreted.

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RJ Lee Group, Inc.

RJ Lee Group Job No: LLH901997-26
Client Job No/Name:

Final Laboratory Report (cont'd)

Client: K & L Gates
Report Date: 07/23/2020

Client Sample Number	RJLG Sample Number	Material Used (gm)	Area Analyzed Total (mm ²)	Area Analyzed 5 μm (mm ²)	Effective Filter Area (mm ²)	Dilution Factor
#4 - CB-2 #5	3158817	0.00005	0.30594	0.30594	1220	1.0

Authorized Signature: 
Ashleigh Sload, Scientist

NOTES

- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2×10^{-3} ng/μm³, density of chrysotile: 2.55×10^{-3} ng/μm³, density of non-asbestos: 3.00×10^{-3} ng/μm³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
- These results are submitted pursuant to RJ Lee Group'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 these results are used or interpreted.

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RJ Lee Group, Inc
LLH901997-26
3158817.HTA4

K & L Gates
#4 - CB-2 #5

22-Jul-20

Air volume:
Area of collection filter:
Volume flowrate:
Level of analysis (chrysotile): NA
Level of analysis (amphibole): AZQ
Magnification used for structure counting:
Aspect ratio for fibre definition: 3:1
Mean dimension of grid openings: 0.00874123
Initials of analyst: JS
Number of grid openings examined: 35
Analytical sensitivity:
Number of primary asbestos structures: 105
Number of asbestos structures counted: 105
Number of asbestos structures >5 µm: 38
Number of fibres and bundles > 5 µm: 37
Number of PCM equivalent asbestos structures: 8
Number of PCM equivalent asbestos fibres: 5

TEM asbestos structure count					
Report Number:	LLH901997-26				
Sample Number:	3158817.HTA4		Sample Weight:	0.000049	
Sample Description:	#4 - CB-2 #5		Filter area (mm ²):	1220	
			Magnification:	10/20 KX	
			Grid opening dimension (mm ²)	0.00874123	
Preparation date:	07/20/20	By:	MK		
Analysis date:	07/22/20	By:	JS	Level of analysis (chrysotile)	NA
Computer entry date:	08/8/20	By:	MMK	Level of analysis (amphibole)	AZQ

Grid	Grid Opening	Structures		Identification	Structure type	Length (µm)	Width (µm)	Fibre Type	Comments
		primary	total						
1	H1	1	1	AZQ	F	2.9	0.12	Actinolite	
		2	2	ADX	F	2.1	0.1	Actinolite	
		3	3	ADX	F	3.9	0.1	Actinolite	
		4	4	ADX	F	1.2	0.2	Actinolite	
		5	5	ADX	F	4.1	0.1	Actinolite	
		6	6	ADX	F	2.3	0.05	Actinolite	
		7	7	ADX	F	9.1	0.1	Actinolite	
		8	8	ADX	F	4.2	0.1	Actinolite	
		9	9	ADX	F	2.3	0.2	Actinolite	
		10	10	ADX	F	6.5	0.1	Actinolite	
	H3	11	11	AZQ	F	3.2	0.06	Actinolite	
		12	12	ADX	F	3.6	0.4	Actinolite	
		13	13	ADX	F	1.2	0.05	Actinolite	
		14	14	ADX	F	1.5	0.05	Actinolite	
		15	15	ADX	F	2.1	0.1	Actinolite	
		16	16	ADX	F	1.8	0.2	Actinolite	
		17	17	ADX	F	1.3	0.2	Actinolite	
		18	18	ADX	B	3.1	0.2	Actinolite	
		19	19	ADX	F	1.5	0.05	Actinolite	
	H5	20	20	ADX	F	1.7	0.3	Actinolite	
		21	21	AZQ	CC++	16.9	4	Actinolite	
		22	22	ADX	F	1.3	0.05	Actinolite	
		23	23	ADX	F	2.7	0.1	Actinolite	
		24	24	ADX	F	4.8	0.1	Actinolite	
		25	25	ADX	F	13.6	0.05	Actinolite	
		26	26	ADX	F	4.1	0.5	Actinolite	
	H7	27	27	ADX	F	1.9	0.5	Actinolite	
		28	28	ADX	F	7.4	0.1	Actinolite	
		29	29	ADX	B	6.4	0.2	Actinolite	
		30	30	ADX	F	1.2	0.05	Actinolite	
		31	31	ADX	F	3.7	0.1	Actinolite	
		32	32	ADX	F	4.5	0.1	Actinolite	
		33	33	AZQ	F	7.45	0.15	Actinolite	
	H9	34	34	ADX	F	3.2	0.05	Actinolite	
		35	35	ADX	F	12.7	0.95	Actinolite	
		36	36	ADX	F	1.5	0.2	Actinolite	
		37	37	ADX	F	4.7	0.1	Actinolite	
		38	38	ADX	F	2.3	0.2	Actinolite	
		39	39	ADX	F	1.6	0.2	Actinolite	
		40	40	ADX	F	9.6	0.2	Actinolite	
		41	41	ADX	F	1.5	0.05	Actinolite	
		42	42	ADX	F	1.6	0.05	Actinolite	

TEM asbestos structure count					
Report Number:	LLH901997-26				
Sample Number:	3158817.HTA4		Sample Weight:	0.000049	
Sample Description:	#4 - CB-2 #5		Filter area (mm ²):	1220	
			Magnification:	10/20 KX	
			Grid opening dimension (mm ²):	0.00874123	
Preparation date:	07/20/20	By:	MK		
Analysis date:	07/22/20	By:	JS	Level of analysis (chrysotile)	NA
Computer entry date:	08/8/20	By:	MMK	Level of analysis (amphibole)	AZQ

Grid	Grid Opening	Structures		Identification	Structure type	Length (µm)	Width (µm)	Fibre Type	Comments
		primary	total						
		43	43	ADX	F	2.8	0.4	Actinolite	
	B1	44	44	AZQ	F	10.1	0.1	Actinolite	
		45	45	ADX	F	5.6	0.1	Actinolite	
	B3			No Fibres					
	B5	46	46	ADX	F	5.1	0.1	Actinolite	
	B7			No Fibres					
	B9	47	47	ADX	F	8.4	0.1	Actinolite	
		48	48	ADX	F	5.8	0.1	Actinolite	
		49	49	ADX	F	7.9	0.1	Actinolite	
	D9			No Fibres					
	D7	50	50	ADX	F	16.7	0.1	Actinolite	
	D5			No Fibres					
	D3	51	51	ADX	B	11.1	0.3	Actinolite	
	D1			No Fibres					
	F1			No Fibres					
	F3			No Fibres					
	F7	52	52	ADX	F	42.3	0.3	Actinolite	
		53	53	ADX	F	8.7	0.1	Actinolite	
2	B1	54	54	ADX	F	10.8	0.2	Actinolite	
		55	55	AZQ	F	15.7	0.09	Actinolite	
	B3			No Fibres					
	B5			No Fibres					
	B7	56	56	ADX	F	9.5	0.1	Actinolite	
		57	57	ADX	F	8.2	0.05	Actinolite	
	B9			No Fibres					
	D9			No Fibres					
	D7			No Fibres					
	D5	58	58	ADX	B	12.6	2.2	Actinolite	
	D3	59	59	ADX	B	14.3	0.7	Actinolite	
		60	60	ADX	F	8.1	0.2	Actinolite	
	D1	61	61	ADX	F	8.9	0.75	Actinolite	
	F1	62	62	ADX	F	7.1	0.1	Actinolite	
	F3			No Fibres				Actinolite	
	H1	63	63	AZQ	F	1.1	0.05	Actinolite	
		64	64	ADX	F	7.5	0.3	Actinolite	
		65	65	ADX	F	7.3	0.05	Actinolite	
		66	66	ADX	F	4.6	0.2	Actinolite	
		67	67	ADX	F	3.1	0.3	Actinolite	
		68	68	ADX	F	4.6	0.3	Actinolite	
		69	69	ADX	F	3.2	0.3	Actinolite	
		70	70	ADX	F	5.1	0.2	Actinolite	
	H3	71	71	ADX	F	3.5	0.3	Actinolite	

TEM asbestos structure count					
Report Number:	LLH901997-26				
Sample Number:	3158817.HTA4		Sample Weight:	0.000049	
Sample Description:	#4 - CB-2 #5		Filter area (mm ²):	1220	
			Magnification:	10/20 KX	
			Grid opening dimension (mm ²)	0.00874123	
Preparation date:	07/20/20	By:	MK		
Analysis date:	07/22/20	By:	JS	Level of analysis (chrysotile)	NA
Computer entry date:	08/8/20	By:	MMK	Level of analysis (amphibole)	AZQ

Grid	Grid Opening	Structures		Identification	Structure type	Length (µm)	Width (µm)	Fibre Type	Comments
		primary	total						
		72	72	ADX	F	2.7	0.1	Actinolite	
		73	73	ADX	F	1.2	0.05	Actinolite	
		74	74	ADX	F	7.1	0.05	Actinolite	
		75	75	ADX	F	2.4	0.05	Actinolite	
		76	76	ADX	F	1.3	0.05	Actinolite	
	H5	77	77	ADX	F	2.3	0.05	Actinolite	
		78	78	ADX	F	2.3	0.05	Actinolite	
		79	79	ADX	F	9.8	0.05	Actinolite	
		80	80	AZQ	F	7.4	0.1	Actinolite	
		81	81	ADX	F	1.5	0.05	Actinolite	
		82	82	ADX	F	4.3	0.05	Actinolite	
		83	83	ADX	F	3.2	0.1	Actinolite	
		84	84	ADX	F	4.5	0.4	Actinolite	
		85	85	ADX	F	2.9	0.05	Actinolite	
		86	86	ADX	F	4.1	0.1	Actinolite	
	H7	87	87	ADX	F	3.5	0.4	Actinolite	
		88	88	ADX	F	1.3	0.05	Actinolite	
		89	89	ADX	F	2.4	0.05	Actinolite	
		90	90	ADX	F	1.7	0.05	Actinolite	
		91	91	AZQ	B	1.9	0.05	Actinolite	
		92	92	ADX	F	6.8	0.05	Actinolite	
		93	93	ADX	F	1.4	0.2	Actinolite	
		94	94	ADX	F	8.5	0.1	Actinolite	
		95	95	ADX	F	3.4	0.05	Actinolite	
	H9	96	96	ADX	F	3.6	0.1	Actinolite	
		97	97	ADX	F	2.3	0.05	Actinolite	
		98	98	ADX	F	4.6	0.7	Actinolite	
		99	99	ADX	F	3.2	0.1	Actinolite	
		100	100	ADX	F	1.4	0.05	Actinolite	
		101	101	AZQ	F	1.8	0.35	Actinolite	
		102	102	ADX	F	4.2	0.4	Actinolite	
		103	103	ADX	F	3.4	0.05	Actinolite	
		104	104	ADX	F	6.4	0.1	Actinolite	
		105	105	ADX	F	5.7	0.6	Actinolite	

Final Laboratory Report

TEM Bulk Protocol

Attention: David Raphael
K & L Gates
17 North Second Street
Harrisburg, PA 17101
US

Report Date: 08/11/2020
Sample Receipt Date:
RJ Lee Group Job No.: LLH901997-26
Authorization/P.O. No.:
Samples Received: 1
Client Job No.:

Method: EPA/R-93/600/116

TABLE 1 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos

Client Sample Number	RJLG Sample Number	Total Structures				-----Weight Percent----- Total Structures Analytical Sensitivity			
		Chry	Amph	Cleavage	Non Asbestos	Chry	Amph Asb	Amph Cleavage Fragment	Non Asbestos
#5 - CB-2 #6	3158818	0	51	25	0	< 2.6E-5 2.6E-5	1.0E0 3.3E-5	2.0E0 2.1E-5	< 2.0E-5 2.0E-5

NOTES

- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2×10^{-3} ng/ μ m³, density of chrysotile: 2.55×10^{-3} ng/ μ m³, density of non-asbestos: 3.00×10^{-3} ng/ μ m³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
- These results are submitted pursuant to RJ Lee Group'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 these results are used or interpreted.

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RJ Lee Group Job No: LLH901997-26
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/11/2020

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos 5 μm

Client Sample Number	RJLG Sample Number	-----Structures 5 μm-----				-----Weight Percent----- Structures 5 μm Analytical Sensitivity			
		Chry	Amph	Cleavage	Non-Asbestos	Amphibole			
						Chry	Asb	Cleavage Fragment	Non-Asbestos
#5 - CB-2 #6	3158818	0	30	7	0	<u>< 2.6E-4</u> 2.6E-4	<u>9.7E-1</u> 3.3E-4	<u>1.4E0</u> 2.1E-4	<u>< 2.0E-4</u> 2.0E-4

NOTES

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- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2 * 10⁻³ ng/ μ m³, density of chrysotile: 2.55 * 10⁻³ ng/ μ m³, density of non-asbestos: 3.00 * 10⁻³ ng/ μ m³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
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RJ Lee Group, Inc.

Final Laboratory Report (cont'd)

RJ Lee Group Job No: LLH901997-26
Client Job No/Name:

Client: K & L Gates
Report Date: 08/11/2020

Client Sample Number	RJLG Sample Number	Material Used (gm)	Area Analyzed Total (mm ²)	Area Analyzed 5 μm (mm ²)	Effective Filter Area (mm ²)	Dilution Factor
#5 - CB-2 #6	3158818	0.00004	0.30594	0.30594	1220	1.0

Authorized Signature: 
Ashleigh Sload, Scientist

NOTES

- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2×10^{-3} ng/μm³, density of chrysotile: 2.55×10^{-3} ng/μm³, density of non-asbestos: 3.00×10^{-3} ng/μm³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
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RJL: LLH901997-26	3158818.HTA5	Microscope tem2000fx2	Grid Openings	10
#5 - CB-2 #6	K & L Gates	Magnification 21 KX	Asbestos	35.0
Wt: 0.0 gm	Grid: 0.0087 mm ²	Acc. Voltage 120 KV	Asbestos >= 5µm	14.0
Dil: 1.	Filter Size: 47 mm	Operator: Jon Swope	Nonasbestos	22.0
HQ45566		Cv = 4.05	Nonasbestos >= 5µm	4.0
			% Wt of largest asbestos structure	%

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1	1	5.5	0.1	Amphibole	F	MgSiCaFe	16537C	Image1	Diff1	Acti	Asb
1	2	1.3	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
1	3	7.6	0.6	Amphibole		MgSiCaFe			X	Acti	Cle
1	4	3.7	0.4	Amphibole		MgSiCaFe			X	Acti	Cle
1	5	4.8	0.5	Amphibole		MgSiCaFe			X	Acti	Cle
1	6	4.2	0.4	Amphibole		MgSiCaFe			X	Acti	Cle
1	7	1.3	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
1	8	3.5	0.4	Amphibole		MgSiCaFe			X	Acti	Cle
1	9	10.4	0.2	Amphibole	F	MgSiCaFe			X	Acti	Asb
2	1	4.1	0.4	Amphibole		MgSiCaFe	16538C	Image2	Diff2	Acti	Cle
2	2	5.4	0.1	Amphibole	F	MgSiCaFe			X	Acti	Asb
2	3	5.6	0.6	Amphibole		MgSiCaFe			X	Acti	Cle
2	4	1.4	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
2	5	4.8	0.1	Amphibole	F	MgSiCaFe			X	Acti	Asb
3	1	7.9	0.1	Amphibole	F	MgSiCaFe			X	Acti	Asb
3	2	6.3	0.1	Amphibole	F	MgSiCaFe			X	Acti	Asb
3	3	8.6	0.1	Amphibole	F	MgSiCaFe			X	Acti	Asb
3	4	3.6	0.1	Amphibole	F	MgSiCaFe			X	Acti	Asb
3	5	1.3	0.05	Amphibole	F	MgSiCaFe			X	Acti	Asb
3	6	2.5	0.15	Amphibole		MgSiCaFe	16539C	Image3	Diff3	Acti	Cle
3	7	2.8	0.1	Amphibole	F	MgSiCaFe			X	Acti	Asb
3	8	3.3	0.05	Amphibole	F	MgSiCaFe			X	Acti	Asb
3	9	4.9	0.1	Amphibole	F	MgSiCaFe			X	Acti	Asb
4	1	2.8	0.4	Amphibole		MgSiCaFe			X	Acti	Cle
4	2	5.1	0.1	Amphibole	F	MgSiCaFe			X	Acti	Asb
4	3	1.4	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
4	4	6.7	0.1	Amphibole	F	MgSiCaFe			X	Acti	Asb
4	5	8.2	0.2	Amphibole	F	MgSiCaFe			X	Acti	Asb
4	6	1.2	0.05	Amphibole	F	MgSiCaFe			X	Acti	Asb
4	7	6.8	0.8	Amphibole		MgSiCaFe			X	Acti	Cle
5	1	1.2	0.05	Amphibole	F	MgSiCaFe			X	Acti	Asb
5	2	1.7	0.05	Amphibole	F	MgSiCaFe			X	Acti	Asb
5	3	4.3	0.1	Amphibole	F	MgSiCaFe			X	Acti	Asb
5	4	2.6	0.1	Amphibole	F	MgSiCaFe			X	Acti	Asb
6	1	3.8	0.4	Amphibole		MgSiCaFe			X	Acti	Cle
6	2	10.3	0.15	Amphibole	F	MgSiCaFe	16540C	Image4	Diff4	Acti	Asb
6	3	1.5	0.1	Amphibole	F	MgSiCaFe			X	Acti	Asb
6	4	3.2	0.05	Amphibole	F	MgSiCaFe			X	Acti	Asb
6	5	4.1	0.05	Amphibole	F	MgSiCaFe			X	Acti	Asb
6	6	1.3	0.05	Amphibole	F	MgSiCaFe			X	Acti	Asb
6	7	2.1	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
7	1	6.3	0.5	Amphibole		MgSiCaFe			X	Acti	Cle
7	2	4.6	0.55	Amphibole		MgSiCaFe			X	Acti	Cle
7	3	7.4	0.5	Amphibole	B	MgSiCaFe			X	Acti	Asb

RJ Lee Group, Inc.
TEM Count Sheet

RJL: LLH901997-26	3158818.HTA5	Microscope tem2000fx2	Grid Openings	10
#5 - CB-2 #6	K & L Gates	Magnification 21 KX	Asbestos	35.0
Wt: 0.0 gm	Grid: 0.0087 mm ²	Acc. Voltage 120 KV	Asbestos >= 5µm	14.0
Dil: 1.	Filter Size: 47 mm	Operator: Jon Swope	Nonasbestos	22.0
HQ45566		Cv = 4.05	Nonasbestos >= 5µm	4.0
			% Wt of largest asbestos structure	%

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
7	4	1.2	0.05	Amphibole	F	MgSiCaFe			X	Acti	Asb
8	1	5.3	0.05	Amphibole	F	MgSiCaFe	16541C	Image5	Diff5	Acti	Asb
8	2	4.3	0.4	Amphibole		MgSiCaFe			X	Acti	Cle
8	3	2.6	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
8	4	2.8	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
9	1	14.6	0.1	Amphibole	F	MgSiCaFe			X	Acti	Asb
9	2	4.3	0.1	Amphibole	F	MgSiCaFe			X	Acti	Asb
9	3	7.5	0.1	Amphibole	F	MgSiCaFe	16542C	Image6	Diff6	Acti	Asb
9	4	1.7	0.05	Amphibole	F	MgSiCaFe			X	Acti	Asb
9	5	4.1	0.05	Amphibole	F	MgSiCaFe			X	Acti	Asb
10	1	2.5	0.05	Amphibole	F	MgSiCaFe			X	Acti	Asb
10	2	3.6	0.05	Amphibole	F	MgSiCaFe			X	Acti	Asb
10	3	4.7	0.5	Amphibole		MgSiCaFe			X	Acti	Cle

8% Particulate

Analyst's Comments: analysis completed on the 2000i

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 7/24/2020 12:57:45 PM approve by Jon Swope

Final Review: 8/11/20 2:44 PM approve by Ashleigh Sload

RJ Lee Group, Inc.
TEM Count Sheet

RJL: LLH901997-26	3158818.HTA5	Microscope tem2000fx1	Grid Openings	25
#5 - CB-2 #6	K & L Gates	Magnification 10 KX	Asbestos	16.0
Wt: 0.0 gm	Grid: 0.0087 mm ²	Acc. Voltage 120 KV	Nonasbestos	3.0
Dil: 1.	Filter Size: 47 mm	Operator: Jon Swope	% Wt of largest asbestos structure	%
HQ45566		Cv = 0.39		

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1	1	16.1	0.22	Amphibole	B	MgSiCaFe	16536C	Image1	Diff1	Acti	Asb
2	1	8.9	0.1	Amphibole	F	MgSiCaFe			X	Acti	Asb
2	2	20.2	0.8	Amphibole	B	MgSiCaFe			X	Acti	Asb
3	1	8.2	0.4	Amphibole	B	MgSiCaFe			X	Acti	Asb
4				NSD							
5	1	7.1	0.1	Amphibole	F	MgSiCaFe			X	Acti	Asb
6	1	12.1	0.1	Amphibole	F	MgSiCaFe			X	Acti	Asb
7	1	13.9	0.2	Amphibole	C	MgSiCaFe		Image2	X	Acti	Asb
8	1	6.7	0.55	Amphibole		MgSiCaFe			X	Acti	Cle
9	1	11.6	1.1	Amphibole		MgSiCaFe			X	Acti	Cle
10	1	10.9	1.4	Amphibole		MgSiCaFe			X	Acti	Cle
10	2	7.8	0.1	Amphibole	F	MgSiCaFe			X	Acti	Asb
11	1	8.5	0.2	Amphibole	M	MgSiCaFe		Image3	X	Acti	Asb
12				NSD							
13	1	8.5	0.2	Amphibole	C	MgSiCaFe		Image4	X	Acti	Asb
14	1	9.2	0.18	Amphibole	F	MgSiCaFe	16543C	Image5	Diff2	Acti	Asb
15				NSD							
16	1	13.2	0.3	Amphibole	B	MgSiCaFe			X	Acti	Asb
16	2	6.8	0.1	Amphibole	F	MgSiCaFe			X	Acti	Asb
17				NSD							
18	1	8.5	0.05	Amphibole	F	MgSiCaFe			X	Acti	Asb
19				NSD							
20				NSD							
21				NSD							
22				NSD							
23				NSD							
24	1	7.3	0.2	Amphibole	F	MgSiCaFe			X	Acti	Asb
25	1	12.7	0.1	Amphibole	F	MgSiCaFe			X	Acti	Asb

8% Particulate

Analyst's Comments: N/A

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 7/24/2020 9:21:44 AM approve by Jon Swope

Final Review: 7/30/20 8:29 AM approve by Ashleigh Sload

Final Laboratory Report

TEM Bulk Protocol

Attention: David Raphael
K & L Gates
17 North Second Street
Harrisburg, PA 17101
US

Report Date: 08/11/2020
Sample Receipt Date:
RJ Lee Group Job No.: LLH901997-26
Authorization/P.O. No.:
Samples Received: 1
Client Job No.:

Method: ISO 22262-2

TABLE 1 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos

Client Sample Number	RJLG Sample Number	<u>Total Structures</u>				-----Weight Percent----- <u>Total Structures</u> Analytical Sensitivity			
		Chry	Amph	Cleavage	Non Asbestos	Chry	Amph Asb	Amph Cleavage Fragment	Non Asbestos
#5 - CB-2 #6	3158818	0	51	25	0	<u>< 2.6E-5</u> 2.6E-5	<u>6.4E-1</u> 2.1E-5	<u>2.0E0</u> 2.1E-5	<u>< 2.0E-5</u> 2.0E-5

NOTES

- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2×10^{-3} ng/ μ m³, density of chrysotile: 2.55×10^{-3} ng/ μ m³, density of non-asbestos: 3.00×10^{-3} ng/ μ m³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
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RJ Lee Group Job No: LLH901997-26
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/11/2020

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos 5 μm

Client Sample Number	RJLG Sample Number	-----Structures 5 μm-----				-----Weight Percent----- Structures 5 μm Analytical Sensitivity			
		Chry	Amph	Cleavage	Non-Asbestos	Chry	Asb	Cleavage Fragment	Non-Asbestos
#5 - CB-2 #6	3158818	0	30	7	0	<u>< 2.6E-4</u> 2.6E-4	<u>6.2E-1</u> 2.1E-4	<u>1.4E0</u> 2.1E-4	<u>< 2.0E-4</u> 2.0E-4

NOTES

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- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2 * 10⁻³ ng/ μ m³, density of chrysotile: 2.55 * 10⁻³ ng/ μ m³, density of non-asbestos: 3.00 * 10⁻³ ng/ μ m³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
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RJ Lee Group, Inc.

Final Laboratory Report (cont'd)

RJ Lee Group Job No: LLH901997-26
Client Job No/Name:

Client: K & L Gates
Report Date: 08/11/2020

Client Sample Number	RJLG Sample Number	Material Used (gm)	Area Analyzed Total (mm ²)	Area Analyzed 5 μm (mm ²)	Effective Filter Area (mm ²)	Dilution Factor
#5 - CB-2 #6	3158818	0.00004	0.30594	0.30594	1220	1.0

Authorized Signature: 
Ashleigh Sload, Scientist

NOTES

- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2×10^{-3} ng/μm³, density of chrysotile: 2.55×10^{-3} ng/μm³, density of non-asbestos: 3.00×10^{-3} ng/μm³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
- These results are submitted pursuant to RJ Lee Group'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 these results are used or interpreted.

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RJ Lee Group, Inc
LLH901997-26
3158818.HTA5

K & L Gates
#5 - CB-2 #6

24-Jul-20

Air volume:
Area of collection filter:
Volume flowrate:
Level of analysis (chrysotile): NA
Level of analysis (amphibole): AZQ
Magnification used for structure counting:
Aspect ratio for fibre definition: 3:1
Mean dimension of grid openings: 0.00874123
Initials of analyst: JS
Number of grid openings examined: 35
Analytical sensitivity:
Number of primary asbestos structures: 76
Number of asbestos structures counted: 80
Number of asbestos structures >5 µm: 37
Number of fibres and bundles > 5 µm: 34
Number of PCM equivalent asbestos structures: 12
Number of PCM equivalent asbestos fibres: 7

TEM asbestos structure count					
Report Number:	LLH901997-26			Sample Weight:	0.000038
Sample Number:	3158818.HTA5			Filter area (mm ²):	1220
Sample Description:	#5 - CB-2 #6			Magnification:	10/20 KX
				Grid opening dimension (mm ²)	0.00874123
Preparation date:	07/20/20	By:	MK		
Analysis date:	07/24/20	By:	JS	Level of analysis (chrysotile)	NA
Computer entry date:	08/8/20	By:	MMK	Level of analysis (amphibole)	AZQ

Grid	Grid Opening	Structures		Identification	Structure type	Length (µm)	Width (µm)	Fibre Type	Comments
		primary	total						
1	H1	1	1	AZQ	F	5.5	0.1	Actinolite	
		2	2	ADX	F	1.3	0.2	Actinolite	
		3	3	ADX	F	7.6	0.6	Actinolite	
		4	4	ADX	F	3.7	0.4	Actinolite	
		5	5	ADX	F	4.8	0.5	Actinolite	
		6	6	ADX	F	4.2	0.4	Actinolite	
		7	7	ADX	F	1.3	0.2	Actinolite	
		8	8	ADX	F	3.5	0.4	Actinolite	
		9	9	ADX	F	10.4	0.2	Actinolite	
	H3	10	10	AZQ	F	4.1	0.4	Actinolite	
		11	11	ADX	F	5.4	0.1	Actinolite	
		12	12	ADX	F	5.6	0.6	Actinolite	
		13	13	ADX	F	1.4	0.2	Actinolite	
		14	14	ADX	F	4.8	0.1	Actinolite	
	H5	15	15	ADX	F	7.9	0.1	Actinolite	
		16	16	ADX	F	6.3	0.1	Actinolite	
		17	17	ADX	F	8.6	0.1	Actinolite	
		18	18	ADX	F	3.6	0.1	Actinolite	
		19	19	ADX	F	1.3	0.05	Actinolite	
		20	20	AZQ	F	2.5	0.15	Actinolite	
		21	21	ADX	F	2.8	0.1	Actinolite	
		22	22	ADX	F	3.3	0.05	Actinolite	
		23	23	ADX	F	4.9	0.1	Actinolite	
	H7	24	24	ADX	F	2.8	0.4	Actinolite	
		25	25	ADX	F	5.1	0.1	Actinolite	
		26	26	ADX	F	1.4	0.2	Actinolite	
		27	27	ADX	F	6.7	0.1	Actinolite	
		28	28	ADX	F	8.2	0.2	Actinolite	
		29	29	ADX	F	1.2	0.05	Actinolite	
		30	30	ADX	F	6.8	0.8	Actinolite	
	H9	31	31	ADX	F	1.2	0.05	Actinolite	
		32	32	ADX	F	1.7	0.05	Actinolite	
		33	33	ADX	F	4.3	0.1	Actinolite	
		34	34	ADX	F	2.6	0.1	Actinolite	
	B1	35	35	AZQ	B	16.1	0.22	Actinolite	
	B3	36	36	ADX	F	8.9	0.1	Actinolite	
		37	37	ADX	B	20.2	0.8	Actinolite	
	B5	38	38	ADX	B	8.2	0.4	Actinolite	
	B7			No Fibres					
	B9	39	39	ADX	F	7.1	0.1	Actinolite	
	D9	40	40	ADX	F	12.1	0.1	Actinolite	
	D7	41	41	ADX	CC++	13.9	0.2	Actinolite	
	D5	42	42	ADX	F	6.7	0.55	Actinolite	

TEM asbestos structure count					
Report Number:	LLH901997-26			Sample Weight:	0.000038
Sample Number:	3158818.HTA5			Filter area (mm ²):	1220
Sample Description:	#5 - CB-2 #6			Magnification:	10/20 KX
				Grid opening dimension (mm ²)	0.00874123
Preparation date:	07/20/20	By:	MK		
Analysis date:	07/24/20	By:	JS	Level of analysis (chrysotile)	NA
Computer entry date:	08/8/20	By:	MMK	Level of analysis (amphibole)	AZQ

Grid	Grid Opening	Structures		Identification	Structure type	Length (µm)	Width (µm)	Fibre Type	Comments
		primary	total						
	D3	43	43	ADX	F	11.6	1.1	Actinolite	
	D1	44	44	ADX	F	10.9	1.4	Actinolite	
		45	45	ADX	F	7.8	0.1	Actinolite	
	F1	46		ADX	MD+1	15	5.2	Actinolite	
			46	ADX	MB	14.8	0.2	Actinolite	
			47	ADX	MR++	8.5	2.5	Actinolite	
2	F3			No Fibres					
	F7	47	48	ADX	CD+2	21.3	13.7	Actinolite	
			49	ADX	CF	8.9	0.03	Actinolite	
			50	ADX	CF	8.5	0.2	Actinolite	
			51	ADX	CR+0	14.8	13.6	Actinolite	
	B1	48	52	AZQ	F	9.2	0.18	Actinolite	
	B3			No Fibres					
	B5	49	53	ADX	B	13.2	0.3	Actinolite	
		50	54	ADX	F	6.8	0.1	Actinolite	
	B7			No Fibres					
	B9	51	55	ADX	F	8.5	0.05	Actinolite	
	D9			No Fibres					
	D7			No Fibres					
	D5			No Fibres					
	D3			No Fibres					
	D1			No Fibres					
	F1	52	52	ADX	F	7.3	0.2	Actinolite	
	F3	53	53	AZQ	F	12.7	0.1	Actinolite	
	H1	54	54	ADX	F	3.8	0.4	Actinolite	
		55	55	ADX	F	10.3	0.15	Actinolite	
		56	56	ADX	F	1.5	0.1	Actinolite	
		57	57	ADX	F	3.2	0.05	Actinolite	
		58	58	ADX	F	4.1	0.05	Actinolite	
		59	59	ADX	F	1.3	0.05	Actinolite	
		60	60	ADX	F	2.1	0.2	Actinolite	
	H3	61	61	ADX	F	6.3	0.5	Actinolite	
		62	62	ADX	F	4.6	0.55	Actinolite	
		63	63	ADX	B	7.4	0.5	Actinolite	
		64	64	ADX	F	1.2	0.05	Actinolite	
	H5	65	65	AZQ	F	5.3	0.05	Actinolite	
		66	66	ADX	F	4.3	0.4	Actinolite	
		67	67	ADX	F	2.6	0.3	Actinolite	
		68	68	ADX	F	2.8	0.3	Actinolite	
	H7	69	69	ADX	F	14.6	0.1	Actinolite	
		70	70	ADX	F	4.3	0.1	Actinolite	
		71	71	AZQ	F	7.5	0.1	Actinolite	
		72	72	ADX	F	1.7	0.05	Actinolite	

TEM asbestos structure count					
Report Number:	LLH901997-26				
Sample Number:	3158818.HTA5		Sample Weight:	0.000038	
Sample Description:	#5 - CB-2 #6		Filter area (mm ²):	1220	
			Magnification:	10/20 KX	
			Grid opening dimension (mm ²)	0.00874123	
Preparation date:	07/20/20	By:	MK		
Analysis date:	07/24/20	By:	JS	Level of analysis (chrysotile)	NA
Computer entry date:	08/8/20	By:	MMK	Level of analysis (amphibole)	AZQ

Grid	Grid Opening	Structues		Identification	Structure type	Length (µm)	Width (µm)	Fibre Type	Comments
		primary	total						
		73	73	ADX	F	4.1	0.05	Actinolite	
	H10	74	74	ADX	F	2.5	0.05	Actinolite	
		75	75	ADX	F	3.6	0.05	Actinolite	
		76	76	ADX	F	4.7	0.5	Actinolite	

Final Laboratory Report

TEM Bulk Protocol

Attention: David Raphael
K & L Gates
17 North Second Street
Harrisburg, PA 17101
US

Report Date: 08/12/2020
Sample Receipt Date:
RJ Lee Group Job No.: LLH901997-26
Authorization/P.O. No.:
Samples Received: 1
Client Job No.:

Method: EPA/R-93/600/116

TABLE 1 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos

Client Sample Number	RJLG Sample Number	Total Structures				-----Weight Percent----- Total Structures Analytical Sensitivity			
		Chry	Amph	Cleavage	Non Asbestos	Chry	Amph Asb	Amph Cleavage Fragment	Non Asbestos
#6 - CB-3 #7	3158819	0	1	2	5	< 2.5E-6 2.5E-6	1.6E-4 3.1E-6	3.2E-2 2.0E-6	2.7E-2 1.9E-6

NOTES

- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2×10^{-3} ng/ μ m³, density of chrysotile: 2.55×10^{-3} ng/ μ m³, density of non-asbestos: 3.00×10^{-3} ng/ μ m³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
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RJ Lee Group Job No: LLH901997-26
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/12/2020

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos 5 μm

Client Sample Number	RJLG Sample Number	-----Structures 5 μm-----				-----Weight Percent----- Structures 5 μm Analytical Sensitivity			
		Chry	Amph	Cleavage	Non-Asbestos	Amphibole			
						Chry	Asb	Cleavage Fragment	Non-Asbestos
#6 - CB-3 #7	3158819	0	0	2	2	<u>< 2.5E-5</u> 2.5E-5	<u>< 3.1E-5</u> 3.1E-5	<u>3.0E-2</u> 2.0E-5	<u>1.0E-3</u> 1.9E-5

NOTES

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- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2 * 10⁻³ ng/ μ m³, density of chrysotile: 2.55 * 10⁻³ ng/ μ m³, density of non-asbestos: 3.00 * 10⁻³ ng/ μ m³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
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RJ Lee Group, Inc.

RJ Lee Group Job No: LLH901997-26
Client Job No/Name:

Final Laboratory Report (cont'd)

Client: K & L Gates
Report Date: 08/12/2020

Client Sample Number	RJLG Sample Number	Material Used (gm)	Area Analyzed Total (mm ²)	Area Analyzed 5 μm (mm ²)	Effective Filter Area (mm ²)	Dilution Factor
#6 - CB-3 #7	3158819	0.0004	0.30731	0.30731	1220	1.0

Authorized Signature: 
Ashleigh Sload, Scientist

NOTES

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- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2×10^{-3} ng/μm³, density of chrysotile: 2.55×10^{-3} ng/μm³, density of non-asbestos: 3.00×10^{-3} ng/μm³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
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RJL: LLH901997-26	3158819.HTA1	Microscope tem2000fx2	Grid Openings	10
#6 - CB-3 #7	K & L Gates	Magnification 20 KX	Asbestos	1.0
Wt: 0.0004 gm	Grid: 0.0088 mm ²	Acc. Voltage 120 KV	Asbestos >= 5µm	0.0
Dil: 1.0	Filter Size: 47 mm	Operator: Jacquelyn Mershon	Nonasbestos	4.0
HQ45480		Cv = 0.09	Nonasbestos >= 5µm % Wt of largest asbestos structure	1.0 %

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1	1	1.37	0.37	Non-Asbestos		MgSiCaFe				CPX	
2	1	1.5	0.5	Non-Asbestos		AlSiK					
3	1	5.04	0.84	Amphibole		MgSiCaFe	19385B	Image1	Diff1	Acti	Cle
3	2	3.25	0.75	Non-Asbestos		MgSiFeAl	19386D	Image2	Diff2		
4	1	1.87	0.1	Amphibole	F	MgSiCaFe		Image3	Diff3	Acti	Asb
5				NSD							
6				NSD							
7				NSD							
8				NSD							
9				NSD							
10				NSD							

7% Particulate

Analyst's Comments: N/A

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 7/23/2020 1:36:28 PM approve by Jacquelyn Mershon

Final Review: 8/13/20 7:52 AM approve by Ashleigh Sload

RJL: LLH901997-26	3158819.HTA1	Microscope tem1200_2	Grid Openings	25
#6 - CB-3 #7	K & L Gates	Magnification 10 KX	Asbestos	0.0
Wt: 0.0004 gm	Grid: 0.0088 mm ²	Acc. Voltage 120 KV	Nonasbestos	3.0
Dil: 1.0	Filter Size: 47 mm	Operator: Jacquelyn Mershon	% Wt of largest asbestos	%
HQ45480		Cv = 0	structure	

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1				NSD							
2				NSD							
3				NSD							
4				NSD							
5				NSD							
6				NSD							
7	1	5	1.2	Non-Asbestos		NaAlSiCa					Feld
8	1	5.33	0.99	Amphibole		MgSiFeCa19386B	Image1		Diff1 Diff2 Diff3		Cumm Cle
9				NSD							
10				NSD							
11	1	5.32	0.3	Non-Asbestos		AlSiCa	19387B	Image2	Diff4		
12				NSD							
13				NSD							
14				NSD							
15				NSD							
16				NSD							
17				NSD							
18				NSD							
19				NSD							
20				NSD							
21				NSD							
22				NSD							
23				NSD							
24				NSD							
25				NSD							

7% Particulate

Analyst's Comments: N/A

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 7/24/2020 6:41:57 AM approve by Jacquelyn Mershon

Final Review: 8/13/20 7:52 AM approve by Ashleigh Sload

Final Laboratory Report

TEM Bulk Protocol

Attention: David Raphael
K & L Gates
17 North Second Street
Harrisburg, PA 17101
US

Report Date: 08/12/2020
Sample Receipt Date:
RJ Lee Group Job No.: LLH901997-26
Authorization/P.O. No.:
Samples Received: 1
Client Job No.:

Method: ISO 22262-2

TABLE 1 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos

Client Sample Number	RJLG Sample Number	<u>Total Structures</u>				-----Weight Percent----- <u>Total Structures</u> Analytical Sensitivity			
		Chry	Amph	Cleavage	Non Asbestos	Chry	Amph Asb	Amph Cleavage Fragment	Non Asbestos
#6 - CB-3 #7	3158819	0	1	2	5	< 2.5E-6 2.5E-6	1.0E-4 2.0E-6	3.2E-2 2.0E-6	2.7E-2 1.9E-6

NOTES

1. "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
2. Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
3. If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
4. Density of amphibole: 3.2×10^{-3} ng/ μ m³, density of chrysotile: 2.55×10^{-3} ng/ μ m³, density of non-asbestos: 3.00×10^{-3} ng/ μ m³.
5. Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
6. Samples will be held for 90 days and then disposed of per Federal regulations.
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RJ Lee Group Job No: LLH901997-26
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/12/2020

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos 5 μm

Client Sample Number	RJLG Sample Number	-----Structures 5 μm-----				-----Weight Percent----- Structures 5 μm Analytical Sensitivity			
		Chry	Amph	Cleavage	Non-Asbestos	Amphibole			
						Chry	Asb	Cleavage Fragment	Non-Asbestos
#6 - CB-3 #7	3158819	0	0	2	2	<u>< 2.5E-5</u> 2.5E-5	<u>< 2.0E-5</u> 2.0E-5	<u>3.0E-2</u> 2.0E-5	<u>1.0E-3</u> 1.9E-5

NOTES

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- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2 * 10⁻³ ng/ μ m³, density of chrysotile: 2.55 * 10⁻³ ng/ μ m³, density of non-asbestos: 3.00 * 10⁻³ ng/ μ m³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
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RJ Lee Group, Inc.

RJ Lee Group Job No: LLH901997-26
Client Job No/Name:

Final Laboratory Report (cont'd)

Client: K & L Gates
Report Date: 08/12/2020

Client Sample Number	RJLG Sample Number	Material Used (gm)	Area Analyzed Total (mm ²)	Area Analyzed 5 μm (mm ²)	Effective Filter Area (mm ²)	Dilution Factor
#6 - CB-3 #7	3158819	0.0004	0.30731	0.30731	1220	1.0

Authorized Signature: 
Ashleigh Sload, Scientist

NOTES

- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2×10^{-3} ng/μm³, density of chrysotile: 2.55×10^{-3} ng/μm³, density of non-asbestos: 3.00×10^{-3} ng/μm³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
- These results are submitted pursuant to RJ Lee Group'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 these results are used or interpreted.

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RJ Lee Group, Inc
LLH901997-26
3158819.HTA1

K & L Gates
#6 - CB-3 #7

23-Jul-20

Air volume:
Area of collection filter:
Volume flowrate:
Level of analysis (chrysotile): NA
Level of analysis (amphibole): AZZQ
Magnification used for structure counting:
Aspect ratio for fibre definition: 3:1
Mean dimension of grid openings: 0.00878032
Initials of analyst: JM
Number of grid openings examined: 35
Analytical sensitivity:
Number of primary asbestos structures: 3
Number of asbestos structures counted: 3
Number of asbestos structures >5 µm: 2
Number of fibres and bundles > 5 µm: 2
Number of PCM equivalent asbestos structures: 2
Number of PCM equivalent asbestos fibres: 2

TEM asbestos structure count					
Report Number:	LLH901997-26				
Sample Number:	3158819.HTA1		Sample Weight:	0.0004	
Sample Description:	#6 - CB-3 #7		Filter area (mm ²):	1220	
			Magnification:	10/20 KX	
			Grid opening dimension (mm ²)	0.00878032	
Preparation date:	06/22/20	By:	RAM		
Analysis date:	07/23/20	By:	JS	Level of analysis (chrysotile)	NA
Computer entry date:	08/8/20	By:	MMK	Level of analysis (amphibole)	AZZQ

Grid	Grid Opening	Structures		Identification	Structure type	Length (µm)	Width (µm)	Fibre Type	Comments
		primary	total						
1	I2			NAM		1.37	0.37	CPX	
	G3			NAM		1.5	0.5		
	I6	1	1	AZQ	F	5.04	0.84	Actinolite	
	G8	2	2	AZX	F	1.87	0.1	Actinolite	
	I10			No Fibres					
	A1			No Fibres					
	A3			No Fibres					
	A5			No Fibres					
	C7			No Fibres					
	C5			No Fibres					
	C3			No Fibres					
	C1			NAM	5	1.2			
	E1	3	3	AZZQ	F	5.33	0.99	Cummingtonite	
	E3			No Fibres					
	E7			No Fibres					
	E9			NAM		5.32	0.3		
	G10			No Fibres					
	G8			No Fibres					
2	I2			No Fibres					
	I4			No Fibres					
	I6			No Fibres					
	I8			No Fibres					
	I10			No Fibres					
	B1			No Fibres					
	B3			No Fibres					
	B5			No Fibres					
	B7			No Fibres					
	B9			No Fibres					
	D10			No Fibres					
	D8			No Fibres					
	D6			No Fibres					
	D4			No Fibres					
	D2			No Fibres					
	F1			No Fibres					
	F3			No Fibres					

Final Laboratory Report

TEM Bulk Protocol

Attention: David Raphael
K & L Gates
17 North Second Street
Harrisburg, PA 17101
US

Report Date: 08/11/2020
Sample Receipt Date:
RJ Lee Group Job No.: LLH901997-26
Authorization/P.O. No.:
Samples Received: 1
Client Job No.:

Method: EPA/R-93/600/116

TABLE 1 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos

Client Sample Number	RJLG Sample Number	Total Structures				-----Weight Percent----- Total Structures Analytical Sensitivity			
		Chry	Amph	Cleavage	Non Asbestos	Chry	Amph Asb	Amph Cleavage Fragment	Non Asbestos
#7 - CB-3 #8	3158820	0	83	95	0	< 1.1E-5 1.1E-5	1.0E1 1.3E-5	1.9E1 8.4E-6	< 7.9E-6 7.9E-6

NOTES

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- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2×10^{-3} ng/ μ m³, density of chrysotile: 2.55×10^{-3} ng/ μ m³, density of non-asbestos: 3.00×10^{-3} ng/ μ m³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
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RJ Lee Group Job No: LLH901997-26
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/11/2020

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos 5 μm

Client Sample Number	RJLG Sample Number	-----Structures 5 μm-----				-----Weight Percent----- Structures 5 μm Analytical Sensitivity			
		Chry	Amph	Cleavage	Non-Asbestos	Chry	Asb	Cleavage Fragment	Non-Asbestos
#7 - CB-3 #8	3158820	0	65	36	0	<u>< 1.1E-4</u> 1.1E-4	<u>1.0E1</u> 1.3E-4	<u>1.8E1</u> 8.4E-5	<u>< 7.9E-5</u> 7.9E-5

NOTES

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- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2 * 10⁻³ ng/ μ m³, density of chrysotile: 2.55 * 10⁻³ ng/ μ m³, density of non-asbestos: 3.00 * 10⁻³ ng/ μ m³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
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RJ Lee Group, Inc.

Final Laboratory Report (cont'd)

RJ Lee Group Job No: LLH901997-26
Client Job No/Name:

Client: K & L Gates
Report Date: 08/11/2020

Client Sample Number	RJLG Sample Number	Material Used (gm)	Area Analyzed Total (mm ²)	Area Analyzed 5 μm (mm ²)	Effective Filter Area (mm ²)	Dilution Factor
#7 - CB-3 #8	3158820	0.0001	0.28975	0.28975	1220	1.0

Authorized Signature: 
Ashleigh Sload, Scientist

NOTES

- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2×10^{-3} ng/μm³, density of chrysotile: 2.55×10^{-3} ng/μm³, density of non-asbestos: 3.00×10^{-3} ng/μm³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
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RJL: LLH901997-26	3158820.HTA2	Microscope tem2000fx1	Grid Openings	8
#7 - CB-3 #8	K & L Gates	Magnification 21 KX	Asbestos	34.0
Wt: 0.0001 gm	Grid: 0.0088 mm ²	Acc. Voltage 120 KV	Asbestos >= 5µm	16.0
Dil: 1.	Filter Size: 47 mm	Operator: Jacquelyn Mershon	Nonasbestos	72.0
HQ45480		Cv = 2.438	Nonasbestos >= 5µm % Wt of largest asbestos structure	13.0 %

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1	1	4.14	0.2	Amphibole		MgSiCaFe	16423C	Image1	Diff1	Acti	Cle
1	2	4.37	0.45	Amphibole		MgSiCaFe		Image2	X	Acti	Cle
1	3	2.76	0.15	Amphibole	F	MgSiCaFe		Image3	X	Acti	Asb
1	4	1.84	0.1	Amphibole	F	MgSiCaFe		Image4	X	Acti	Asb
1	5	1.61	0.2	Amphibole		MgSiCaFe		Image5	X	Acti	Cle
1	6	1.73	0.25	Amphibole		MgSiCaFe		Image6	X	Acti	Cle
1	7	2.99	0.2	Amphibole		MgSiCaFe		Image7	X	Acti	Cle
1	8	3.22	0.15	Amphibole	F	MgSiCaFe		Image8	X	Acti	Asb
1	9	2.29	0.92	Amphibole	C	MgSiCaFe		Image9	X	Acti	Asb
1	10	1.84	0.3	Amphibole		MgSiCaFe		Image10	X	Acti	Cle
1	11	1.38	0.13	Amphibole	F	MgSiCaFe		Image11	X	Acti	Asb
1	12	1.84	0.2	Amphibole		MgSiCaFe		Image12	X	Acti	Cle
1	13	1.61	0.15	Amphibole		MgSiCaFe		Image13	X	Acti	Cle
1	14	4.83	0.1	Amphibole	F	MgSiCaFe	16424C	Image14	Diff2	Acti	Asb
1	15	16.03	3.68	Amphibole	C	MgSiCaFe		Image32	X	Acti	Asb
2	1	9.85	0.92	Amphibole		MgSiCaFe		Image15	X	Acti	Cle
2	2	1.38	0.15	Amphibole		MgSiCaFe		Image16	X	Acti	Cle
2	3	4.14	0.3	Amphibole		MgSiCaFe		Image17	X	Acti	Cle
2	4	4.58	0.1	Amphibole	F	MgSiCaFe		Image18	X	Acti	Asb
2	5	5.73	0.15	Amphibole	F	MgSiCaFe		Image19	X	Acti	Asb
2	6	5.4	0.35	Amphibole		MgSiCaFe		Image20	X	Acti	Cle
2	7	21.07	0.35	Amphibole	B	MgSiCaFe	16425C	Image21	Diff3	Acti	Asb
2	8	5.67	0.3	Amphibole	B	MgSiCaFe		Image22	X	Acti	Asb
2	9	3.44	0.05	Amphibole	F	MgSiCaFe		Image23	X	Acti	Asb
2	10	3.91	0.69	Amphibole		MgSiCaFe		Image24	X	Acti	Cle
2	11	2.39	0.15	Amphibole		MgSiCaFe		Image25	X	Acti	Cle
2	12	1.38	0.2	Amphibole		MgSiCaFe		Image26	X	Acti	Cle
2	13	7.59	0.36	Amphibole		MgSiCaFe		Image27	X	Acti	Cle
2	14	2.76	0.3	Amphibole		MgSiCaFe		Image28	X	Acti	Cle
2	15	2.07	0.2	Amphibole		MgSiCaFe		Image29	X	Acti	Cle
2	16	1.84	0.3	Amphibole		MgSiCaFe		Image30	X	Acti	Cle
2	17	13.34	0.15	Amphibole	F	MgSiCaFe	16426C	Image31	Diff4	Acti	Asb
3	1	11.96	0.3	Amphibole	F	MgSiCaFe	16427C	Image33	Diff5	Acti	Asb
3	2	1.38	0.2	Amphibole		MgSiCaFe		Image34	X	Acti	Cle
3	3	1.15	0.15	Amphibole		MgSiCaFe		Image35	X	Acti	Cle
3	4	4.58	0.3	Amphibole		MgSiCaFe		Image36	X	Acti	Cle
3	5	3.64	0.3	Amphibole	M	MgSiCaFe		Image37	X	Acti	Asb
3	6	2.07	0.15	Amphibole		MgSiCaFe		Image38	X	Acti	Cle
3	7	2.29	0.36	Amphibole		MgSiCaFe		Image39	X	Acti	Cle
3	8	2.07	0.35	Amphibole		MgSiCaFe		Image40	X	Acti	Cle
3	9	20.61	0.1	Amphibole	F	MgSiCaFe		Image41	X	Acti	Asb
3	10	3.22	0.4	Amphibole		MgSiCaFe		Image42	X	Acti	Cle
3	11	9.85	0.45	Amphibole	B	MgSiCaFe	16435C	Image43	Diff12	Acti	Asb
3	12	2.53	0.3	Amphibole		MgSiCaFe		Image44	X	Acti	Cle

RJL: LLH901997-26	3158820.HTA2	Microscope tem2000fx1	Grid Openings	8
#7 - CB-3 #8	K & L Gates	Magnification 21 KX	Asbestos	34.0
Wt: 0.0001 gm	Grid: 0.0088 mm ²	Acc. Voltage 120 KV	Asbestos >= 5µm	16.0
Dil: 1.	Filter Size: 47 mm	Operator: Jacquelyn Mershon	Nonasbestos	72.0
HQ45480		Cv = 2.438	Nonasbestos >= 5µm % Wt of largest asbestos structure	13.0 %

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
3	13	2.76	0.15	Amphibole		MgSiCaFe		Image45	X	Acti	Cle
3	14	2.14	0.15	Amphibole		MgSiCaFe		Image46	X	Acti	Cle
3	15	5.06	0.4	Amphibole		MgSiCaFe		Image47	X	Acti	Cle
4	1	2.07	0.3	Amphibole		MgSiCaFe		Image48	X	Acti	Cle
4	2	5.98	0.4	Amphibole		MgSiCaFe		Image49	X	Acti	Cle
4	3	4.37	0.15	Amphibole	F	MgSiCaFe		Image50	X	Acti	Asb
4	4	4.37	0.1	Amphibole	F	MgSiCaFe		Image51	X	Acti	Asb
4	5	4.58	0.1	Amphibole	F	MgSiCaFe		Image52	X	Acti	Asb
4	6	2.29	0.4	Amphibole		MgSiCaFe		Image53	X	Acti	Cle
4	7	3.22	0.46	Amphibole		MgSiCaFe		Image54	X	Acti	Cle
4	8	2.76	0.1	Amphibole	F	MgSiCaFe		Image55	X	Acti	Asb
5	1	3.22	0.15	Amphibole		MgSiCaFe		Image56	X	Acti	Cle
5	2	2.76	0.15	Amphibole		MgSiCaFe		Image57	X	Acti	Cle
5	3	2.14	0.2	Amphibole		MgSiCaFe		Image58	X	Acti	Cle
5	4	3.22	0.4	Amphibole		MgSiCaFe		Image59	X	Acti	Cle
5	5	3.68	0.15	Amphibole	B	MgSiCaFe		Image60	X	Acti	Asb
5	6	1.5	0.1	Amphibole		MgSiCaFe		Image61	X	Acti	Cle
5	7	2.99	0.46	Amphibole		MgSiCaFe		Image62	X	Acti	Cle
5	8	6.44	0.1	Amphibole	B	MgSiCaFe		Image63	X	Acti	Asb
5	9	5.72	0.4	Amphibole		MgSiCaFe		Image64	X	Acti	Cle
5	10	3.68	0.1	Amphibole		MgSiCaFe	16428C	Image65	Diff6	Acti	Cle
5	11	2.29	0.3	Amphibole		MgSiCaFe		Image66	X	Acti	Cle
5	12	8.28	0.2	Amphibole	F	MgSiCaFe		Image67	X	Acti	Asb
5	13	2.29	0.3	Amphibole		MgSiCaFe		Image68	X	Acti	Cle
6	1	26.57	4.37	Amphibole		MgSiCaFe		Image69	X	Acti	Cle
6	2	5.52	0.97	Amphibole		MgSiCaFe		Image70	X	Acti	Cle
6	3	1.38	0.15	Amphibole		MgSiCaFe		Image71	X	Acti	Cle
6	4	1.38	0.15	Amphibole		MgSiCaFe		Image72	X	Acti	Cle
6	5	23.59	1.15	Amphibole		MgSiCaFe		Image73	X	Acti	Cle
6	6	7.02	0.1	Amphibole	B	MgSiCaFe	16431C	Image74	Diff7	Acti	Asb
6	7	10.54	0.1	Amphibole	M	MgSiCaFe		Image75	X	Acti	Asb
6	8	6.44	0.3	Amphibole		MgSiCaFe	16434C	Image76	Diff10	Acti	Cle
6	9	7.79	0.05	Amphibole	F	MgSiCaFe		Image77	X	Acti	Asb
6	10	1.61	0.2	Amphibole		MgSiCaFe		Image78	X	Acti	Cle
6	11	1.38	0.1	Amphibole		MgSiCaFe		Image79	X	Acti	Cle
6	12	1.53	0.2	Amphibole		MgSiCaFe		Image80	X	Acti	Cle
6	13	1.38	0.1	Amphibole		MgSiCaFe		Image81	X	Acti	Cle
6	14	2.19	0.1	Amphibole		MgSiCaFe		Image82	X	Acti	Cle
6	15	3.43	0.15	Amphibole		MgSiCaFe		Image83	X	Acti	Cle
6	16	3.33	0.46	Amphibole		MgSiCaFe		Image84	X	Acti	Cle
7	1	1.84	0.2	Amphibole		MgSiCaFe		Image85	X	Acti	Cle
7	2	1.15	0.1	Amphibole		MgSiCaFe		Image86	X	Acti	Cle
7	3	2.29	0.1	Amphibole	F	MgSiCaFe		Image87	X	Acti	Asb
7	4	2.29	0.2	Amphibole		MgSiCaFe		Image88	X	Acti	Cle

RJ Lee Group, Inc.
TEM Count Sheet

RJL: LLH901997-26	3158820.HTA2	Microscope tem2000fx1	Grid Openings	8
#7 - CB-3 #8	K & L Gates	Magnification 21 KX	Asbestos	34.0
Wt: 0.0001 gm	Grid: 0.0088 mm ²	Acc. Voltage 120 KV	Asbestos >= 5µm	16.0
Dil: 1.	Filter Size: 47 mm	Operator: Jacquelyn Mershon	Nonasbestos	72.0
HQ45480		Cv = 2.438	Nonasbestos >= 5µm	13.0
			% Wt of largest asbestos structure	%

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
7	5	3.68	0.1	Amphibole	B	MgSiCaFe		Image89	X	Acti	Asb
7	6	2.39	0.4	Amphibole		MgSiCaFe		Image90	X	Acti	Cle
7	7	2.99	0.3	Amphibole		MgSiCaFe		Image91	X	Acti	Cle
7	8	4.37	0.3	Amphibole		MgSiCaFe		Image92	X	Acti	Cle
7	9	9.16	0.92	Amphibole		MgSiCaFe		Image93	X	Acti	Cle
8	1	2.07	0.2	Amphibole		MgSiCaFe		Image94	X	Acti	Cle
8	2	8.25	0.3	Amphibole	F	MgSiCaFe		Image95	X	Acti	Asb
8	3	1.61	0.05	Amphibole	F	MgSiCaFe		Image96	X	Acti	Asb
8	4	9.85	0.15	Amphibole	F	MgSiCaFe	16432C	Image97	Diff8	Acti	Asb
8	5	3.68	0.3	Amphibole	F	MgSiCaFe		Image98	X	Acti	Asb
8	6	6.87	0.92	Amphibole		MgSiCaFe		Image99	X	Acti	Cle
8	7	6.67	0.61	Amphibole		MgSiCaFe		Image100	X	Acti	Cle
8	8	2.07	0.1	Amphibole		MgSiCaFe		Image101	X	Acti	Cle
8	9	1.53	0.3	Amphibole		MgSiCaFe		Image102	X	Acti	Cle
8	10	10.81	0.1	Amphibole	B	MgSiCaFe	16433C	Image103	Diff9	Acti	Asb
8	11	1.84	0.15	Amphibole		MgSiCaFe		Image104	X	Acti	Cle
8	12	4.37	0.46	Amphibole		MgSiCaFe		Image105	X	Acti	Cle
8	13	3.68	0.3	Amphibole		MgSiCaFe		Image106	X	Acti	Cle

8% Particulate

Analyst's Comments: N/A

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 7/13/2020 12:41:15 PM approve by Jacquelyn Mershon

Final Review: 8/11/20 3:16 PM approve by Ashleigh Sload

RJL: LLH901997-26	3158820.HTA2	Microscope tem2000fx1	Grid Openings	25
#7 - CB-3 #8	K & L Gates	Magnification 10 KX	Asbestos	49.0
Wt: 0.0001 gm	Grid: 0.0088 mm ²	Acc. Voltage 120 KV	Nonasbestos	23.0
Dil: 1.	Filter Size: 47 mm	Operator: Jacquelyn Mershon	% Wt of largest asbestos	%
HQ45480		Cv = 3.638	structure	

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1	1	17.96	0.54	Amphibole	B	MgSiCaFe	16436C	Image1	Diff1	Acti	Asb
1	2	6.3	0.14	Amphibole	F	MgSiCaFe		Image2	X	Acti	Asb
1	3	10.35	0.72	Amphibole		MgSiCaFe		Image3	X	Acti	Cle
1	4	5.85	0.18	Amphibole	F	MgSiCaFe		Image4	X	Acti	Asb
2	1	27.12	0.81	Amphibole	F	MgSiCaFe		Image6	X	Acti	Asb
3	1	7.2	0.81	Amphibole		MgSiCaFe		Image7	X	Acti	Cle
3	2	5.85	0.18	Amphibole	F	MgSiCaFe		Image8	X	Acti	Asb
4	1	11.7	0.27	Amphibole	F	MgSiCaFe		Image9	X	Acti	Asb
4	2	13.47	0.54	Amphibole		MgSiCaFe		Image10	X	Acti	Cle
4	3	20.66	0.13	Amphibole	F	MgSiCaFe		Image11	X	Acti	Asb
4	4	18.86	0.27	Amphibole	F	MgSiCaFe		Image12	X	Acti	Asb
5	1	11.23	0.13	Amphibole	F	MgSiCaFe		Image13	X	Acti	Asb
6	1	12.15	0.13	Amphibole	F	MgSiCaFe		Image16	X	Acti	Asb
6	2	5.94	0.23	Amphibole	F	MgSiCaFe		Image17	X	Acti	Asb
6	3	6.74	0.23	Amphibole	B	MgSiCaFe		Image18	X	Acti	Asb
7	1	10.53	0.18	Amphibole	F	MgSiCaFe		Image19	X	Acti	Asb
7	2	8.37	0.36	Amphibole	F	MgSiCaFe		Image20	X	Acti	Asb
7	3	8.1	0.45	Amphibole		MgSiCaFe		Image21	X	Acti	Cle
7	4	6.74	0.09	Amphibole	F	MgSiCaFe		Image22	X	Acti	Asb
7	5	8.1	0.09	Amphibole	F	MgSiCaFe		Image23	X	Acti	Asb
8	1	5.85	0.36	Amphibole		MgSiCaFe		Image24	X	Acti	Cle
8	2	8.8	0.18	Amphibole	F	MgSiCaFe	16455C	Image25	Diff2	Acti	Asb
8	3	12.6	0.36	Amphibole	B	MgSiCaFe		Image26	X	Acti	Asb
8	4	29.19	1.8	Amphibole		MgSiCaFe		Image27	X	Acti	Cle
8	5	5.4	0.27	Amphibole		MgSiCaFe		Image28	X	Acti	Cle
9	1	5.4	0.45	Amphibole		MgSiCaFe		Image29	X	Acti	Cle
9	2	5.4	0.09	Amphibole	F	MgSiCaFe		Image30	X	Acti	Asb
9	3	15.72	0.27	Amphibole	B	MgSiCaFe		Image31	X	Acti	Asb
9	4	7.2	0.45	Amphibole		MgSiCaFe		Image32	X	Acti	Cle
10	1	17.1	0.18	Amphibole	F	MgSiCaFe		Image33	X	Acti	Asb
10	2	25.2	0.23	Amphibole	B	MgSiCaFe		Image34	X	Acti	Asb
10	3	7.2	0.18	Amphibole	F	MgSiCaFe		Image35	X	Acti	Asb
10	4	7.65	0.18	Amphibole	F	MgSiCaFe		Image36	X	Acti	Asb
10	5	5.18	0.18	Amphibole	F	MgSiCaFe		Image37	X	Acti	Asb
11	1	26.94	2.25	Amphibole		MgSiCaFe		Image38	X	Acti	Cle
12	1	11.7	0.09	Amphibole	F	MgSiCaFe		Image39	X	Acti	Asb
13	1	39.52	0.27	Amphibole	B	MgSiCaFe	16456C	Image40	Diff3	Acti	Asb
13	2	5.85	0.18	Amphibole	F	MgSiCaFe		Image41	X	Acti	Asb
13	3	11.23	0.18	Amphibole	F	MgSiCaFe	16457C	Image42	Diff4	Acti	Asb
13	4	10.8	0.18	Amphibole	F	MgSiCaFe	16458C	Image43	Diff5	Acti	Asb
13	5	6.98	0.18	Amphibole	F	MgSiCaFe		Image44	X	Acti	Asb
14	1	9.45	0.36	Amphibole	F	MgSiCaFe		Image45	X	Acti	Asb
14	2	7.65	0.45	Amphibole		MgSiCaFe		Image46	X	Acti	Cle
14	3	5.58	0.18	Amphibole	F	MgSiCaFe		Image47	X	Acti	Asb

RJL: LLH901997-26	3158820.HTA2	Microscope tem2000fx1	Grid Openings	25
#7 - CB-3 #8	K & L Gates	Magnification 10 KX	Asbestos	49.0
Wt: 0.0001 gm	Grid: 0.0088 mm ²	Acc. Voltage 120 KV	Nonasbestos	23.0
Dil: 1.	Filter Size: 47 mm	Operator: Jacquelyn Mershon	% Wt of largest asbestos	%
HQ45480		Cv = 3.638	structure	

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
15	1	14.37	0.36	Amphibole	F	MgSiCaFe		Image48	X	Acti	Asb
15	2	9.9	0.09	Amphibole	F	MgSiCaFe		Image50	X	Acti	Asb
15	3	17.1	0.18	Amphibole	B	MgSiCaFe		Image51	X	Acti	Asb
15	4	6.3	0.09	Amphibole	F	MgSiCaFe		Image52	X	Acti	Asb
15	5	8.1	0.36	Amphibole		MgSiCaFe		Image53	X	Acti	Cle
15	6	15.72	0.27	Amphibole	F	MgSiCaFe		Image54	X	Acti	Asb
15	7	14.4	0.27	Amphibole	F	MgSiCaFe	16459C	Image55	Diff6	Acti	Asb
15	8	6.3	0.13	Amphibole	F	MgSiCaFe		Image56	X	Acti	Asb
16	1	10.35	0.54	Amphibole		MgSiCaFe		Image57	X	Acti	Cle
16	2	10.18	0.18	Amphibole	B	MgSiCaFe		Image58	X	Acti	Asb
17	1	5.4	0.36	Amphibole		MgSiCaFe		Image59	X	Acti	Cle
18	1	11.7	0.63	Amphibole		MgSiCaFe		Image60	X	Acti	Cle
18	2	17.1	0.36	Amphibole	F	MgSiCaFe		Image61	X	Acti	Asb
19	1	5.4	0.72	Amphibole		MgSiCaFe		Image63	X	Acti	Cle
20	1	8.1	0.27	Amphibole	F	MgSiCaFe		Image64	X	Acti	Asb
20	2	9.9	1.08	Amphibole		MgSiCaFe		Image65	X	Acti	Cle
20	3	7.2	0.9	Amphibole		MgSiCaFe		Image66	X	Acti	Cle
20	4	7.2	1.08	Amphibole		MgSiCaFe		Image67	X	Acti	Cle
21				NSD							
22	1	13.83	0.09	Amphibole	F	MgSiCaFe		Image68	X	Acti	Asb
22	2	17.96	0.9	Amphibole		MgSiCaFe		Image70	X	Acti	Cle
23	1	5.72	0.63	Amphibole		MgSiCaFe		Image71	X	Acti	Cle
24	1	8.1	1.35	Amphibole		MgSiCaFe		Image72	X	Acti	Cle
25	1	8.98	0.18	Amphibole	F	MgSiCaFe	16460C	Image73	Diff7	Acti	Asb
25	2	15.72	0.27	Amphibole	M	MgSiCaFe	16461C	Image74	Diff8	Acti	Asb
25	3	13.92	0.27	Amphibole	F	MgSiCaFe		Image75	X	Acti	Asb
25	4	7.2	0.09	Amphibole	B	MgSiCaFe		Image76	X	Acti	Asb
25	5	13.47	0.09	Amphibole	F	MgSiCaFe		Image77	X	Acti	Asb
25	6	6.74	1.08	Amphibole		MgSiCaFe		Image78	X	Acti	Cle

8% Particulate

Analyst's Comments: Analyzed on grids 1 and 3

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 7/16/2020 8:52:41 AM approve by Jacquelyn Mershon

Final Review: 8/11/20 3:16 PM approve by Ashleigh Sload

Final Laboratory Report

TEM Bulk Protocol

Attention: David Raphael
K & L Gates
17 North Second Street
Harrisburg, PA 17101
US

Report Date: 08/11/2020
Sample Receipt Date:
RJ Lee Group Job No.: LLH901997-26
Authorization/P.O. No.:
Samples Received: 1
Client Job No.:

Method: ISO 22262-2

TABLE 1 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos

Client Sample Number	RJLG Sample Number	Total Structures				-----Weight Percent----- Total Structures Analytical Sensitivity			
		Chry	Amph	Cleavage	Non Asbestos	Chry	Amph Asb	Amph Cleavage Fragment	Non Asbestos
#7 - CB-3 #8	3158820	0	83	95	0	< 1.1E-5 1.1E-5	6.6E0 8.4E-6	1.9E1 8.4E-6	< 7.9E-6 7.9E-6

NOTES

- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2×10^{-3} ng/ μ m³, density of chrysotile: 2.55×10^{-3} ng/ μ m³, density of non-asbestos: 3.00×10^{-3} ng/ μ m³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
- These results are submitted pursuant to RJ Lee Group'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 these results are used or interpreted.

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These results are submitted pursuant to RJ Lee Group's current terms and conditions of sale, including the company's standard warranty and limiting provisions and 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, RJ Lee Group will store the samples for a period of ninety (90) days before discarding. A shipping and handling fee will be assessed for the return of any sample.

RJ Lee Group Job No: LLH901997-26
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/11/2020

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos 5 μm

Client Sample Number	RJLG Sample Number	-----Structures 5 μm-----				-----Weight Percent----- Structures 5 μm Analytical Sensitivity Amphibole			
		Chry	Amph	Cleavage	Non-Asbestos	Chry	Asb	Cleavage Fragment	Non-Asbestos
#7 - CB-3 #8	3158820	0	65	36	0	<u>< 1.1E-4</u> 1.1E-4	<u>6.5E0</u> 8.4E-5	<u>1.8E1</u> 8.4E-5	<u>< 7.9E-5</u> 7.9E-5

NOTES

- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2 * 10⁻³ ng/ μ m³, density of chrysotile: 2.55 * 10⁻³ ng/ μ m³, density of non-asbestos: 3.00 * 10⁻³ ng/ μ m³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
- These results are submitted pursuant to RJ Lee Group'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 these results are used or interpreted.

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RJ Lee Group, Inc.

RJ Lee Group Job No: LLH901997-26
Client Job No/Name:

Final Laboratory Report (cont'd)

Client: K & L Gates
Report Date: 08/11/2020

Client Sample Number	RJLG Sample Number	Material Used (gm)	Area Analyzed Total (mm ²)	Area Analyzed 5 μm (mm ²)	Effective Filter Area (mm ²)	Dilution Factor
#7 - CB-3 #8	3158820	0.0001	0.28975	0.28975	1220	1.0

Authorized Signature: 
Ashleigh Sload, Scientist

NOTES

- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2×10^{-3} ng/μm³, density of chrysotile: 2.55×10^{-3} ng/μm³, density of non-asbestos: 3.00×10^{-3} ng/μm³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
- These results are submitted pursuant to RJ Lee Group'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 these results are used or interpreted.

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RJ Lee Group, Inc
LLH901997-26
3158820.HTA2

K & L Gates
#7 - CB-3 #8

13-Jul-20

Air volume:
Area of collection filter:
Volume flowrate:
Level of analysis (chrysotile): NA
Level of analysis (amphibole): AZQ
Magnification used for structure counting:
Aspect ratio for fibre definition: 3:1
Mean dimension of grid openings: 0.00878032
Initials of analyst: JM
Number of grid openings examined: 33
Analytical sensitivity:
Number of primary asbestos structures: 166
Number of asbestos structures counted: 170
Number of asbestos structures >5 µm: 96
Number of fibres and bundles > 5 µm: 93
Number of PCM equivalent asbestos structures: 57
Number of PCM equivalent asbestos fibres: 46

TEM asbestos structure count					
Report Number:	LLH901997-26			Sample Weight:	0.0001
Sample Number:	3158820.HTA2			Filter area (mm ²):	1220
Sample Description:	#7 - CB-3 #8			Magnification:	10/20 KX
				Grid opening dimension (mm ²)	0.00878032
Preparation date:	06/22/20	By:	RAM		
Analysis date:	07/13/20	By:	JM	Level of analysis (chrysotile)	NA
Computer entry date:	08/8/20	By:	MMK	Level of analysis (amphibole)	AZQ

Grid	Grid Opening	Structures		Identification	Structure type	Length (µm)	Width (µm)	Fibre Type	Comments
		primary	total						
1	I1	1		AZQ	CD20	4.37	4.14	Actinolite	
			1	AZQ	CF	4.37	0.45	Actinolite	
			2	ADX	CF	4.14	0.2	Actinolite	
		2	3	ADX	F	2.76	0.15	Actinolite	
		3	4	ADX	F	1.84	0.1	Actinolite	
		4	5	ADX	F	1.61	0.2	Actinolite	
				ADX		1.73	0.25	Actinolite	Not tabulated; touches top or left grid bar
		5	6	ADX	B	2.99	0.2	Actinolite	
		6	7	ADX	F	3.22	0.15	Actinolite	
		7	8	ADX	CC+0	2.29	0.92	Actinolite	
	I3	8	9	ADX	B	1.84	0.3	Actinolite	
		9	10	ADX	F	1.38	0.13	Actinolite	
		10	11	ADX	F	1.84	0.2	Actinolite	
		11	12	ADX	F	1.61	0.15	Actinolite	
		12	13	AZQ	F	4.83	0.1	Actinolite	
		13	14	ADX	MC++	16.03	3.68	Actinolite	
	I3	14	15	ADX	F	19.7	0.92	Actinolite	
		15	16	ADX	F	1.38	0.15	Actinolite	
		16	17	ADX	F	4.14	0.3	Actinolite	
		17	18	ADX	F	4.58	0.1	Actinolite	
		18	19	ADX	F	5.73	0.15	Actinolite	
		19	20	ADX	F	5.4	0.35	Actinolite	
		20	21	AZQ	B	21.07	0.35	Actinolite	
		21	22	ADX	B	5.67	0.3	Actinolite	
		22	23	ADX	F	3.44	0.05	Actinolite	
		23	24	ADX	F	3.91	0.69	Actinolite	
		24	25	ADX	F	2.39	0.15	Actinolite	
		25	26	ADX	F	1.38	0.2	Actinolite	
		26	27	ADX	F	7.59	0.36	Actinolite	
		27	28	ADX	F	2.76	0.3	Actinolite	
		28	29	ADX	F	2.07	0.2	Actinolite	
		29	30	ADX	B	1.84	0.3	Actinolite	
		30	31	AZQ	F	13.34	0.15	Actinolite	
	I5			AZQ		11.96	0.3	Actinolite	Not tabulated; touches top or left grid bar

TEM asbestos structure count					
Report Number:	LLH901997-26				
Sample Number:	3158820.HTA2		Sample Weight:	0.0001	
Sample Description:	#7 - CB-3 #8		Filter area (mm ²):	1220	
			Magnification:	10/20 KX	
			Grid opening dimension (mm ²)	0.00878032	
Preparation date:	06/22/20	By:	RAM		
Analysis date:	07/13/20	By:	JM	Level of analysis (chrysotile)	NA
Computer entry date:	08/8/20	By:	MMK	Level of analysis (amphibole)	AZQ

Grid	Grid Opening	Structures		Identification	Structure type	Length (µm)	Width (µm)	Fibre Type	Comments
		primary	total						
				ADX		1.38	0.2	Actinolite	Not tabulated; touches top or left grid bar
		31	32	ADX	F	1.15	0.15	Actinolite	
		32	33	ADX	F	4.58	0.3	Actinolite	
		33		ADX	MD10	7.2	2.5	Actinolite	
			34	ADX	MF	3.64	0.3	Actinolite	
		34	35	ADX	F	2.07	0.15	Actinolite	
		35	36	ADX	F	2.29	0.36	Actinolite	
		36	37	ADX	B	2.07	0.35	Actinolite	
		37	38	ADX	F	20.61	0.1	Actinolite	
		38	39	ADX	F	3.22	0.4	Actinolite	
		39	40	AZQ	B	9.85	0.45	Actinolite	
		40	41	ADX	F	2.53	0.3	Actinolite	
		41	42	ADX	F	2.76	0.15	Actinolite	
		42	43	ADX	F	2.14	0.15	Actinolite	
		43	44	ADX	B	5.06	0.4	Actinolite	
	17			ADX	F	2.07	0.3	Actinolite	Not tabulated; touches top or left grid bar
				ADX	F	5.98	0.4	Actinolite	Not tabulated; touches top or left grid bar
		44	45	ADX	F	4.37	0.15	Actinolite	
		45	46	ADX	F	4.37	0.1	Actinolite	
		46	47	ADX	F	9.16	0.1	Actinolite	
		47	48	ADX	F	2.29	0.4	Actinolite	
		48	49	ADX	F	3.22	0.46	Actinolite	
		49	50	ADX	F	2.76	0.1	Actinolite	
		50	51	ADX	F	3.22	0.15	Actinolite	
		51	52	ADX	F	2.76	0.15	Actinolite	
		52		ADX	MD10	4.2	0.8	Actinolite	
			53	ADX	MF	2.14	0.2	Actinolite	
		53	54	ADX	F	3.22	0.4	Actinolite	
		54	55	ADX	B	3.68	0.15	Actinolite	
		55	56	ADX	F	1.5	0.1	Actinolite	

TEM asbestos structure count					
Report Number:	LLH901997-26				
Sample Number:	3158820.HTA2			Sample Weight:	0.0001
Sample Description:	#7 - CB-3 #8			Filter area (mm ²):	1220
				Magnification:	10/20 KX
				Grid opening dimension (mm ²):	0.00878032
Preparation date:	06/22/20	By:	RAM		
Analysis date:	07/13/20	By:	JM	Level of analysis (chrysotile)	NA
Computer entry date:	08/8/20	By:	MMK	Level of analysis (amphibole)	AZQ

Grid	Grid Opening	Structures		Identification	Structure type	Length (µm)	Width (µm)	Fibre Type	Comments
		primary	total						
		56	57	ADX	F	5.98	0.46	Actinolite	
		57	58	ADX	B	6.44	0.1	Actinolite	
		58	59	ADX	F	5.72	0.4	Actinolite	
		59	60	AZQ	F	3.68	0.1	Actinolite	
		60	61	ADX	F	2.29	0.3	Actinolite	
		61	62	ADX	F	8.28	0.2	Actinolite	
		62	63	ADX	F	2.29	0.3	Actinolite	
	A1	63		AZQ	CD22	18	6	Actinolite	
			64	AZQ	CF	17.96	0.54	Actinolite	
			65	ADX	CF	6.3	0.14	Actinolite	
		64	66	ADX	F	10.35	0.72	Actinolite	
		65	67	ADX	F	5.85	0.18	Actinolite	
	A3	66	68	ADX	F	27.12	0.81	Actinolite	
	A5	67	69	ADX	F	7.2	0.81	Actinolite	
		68	70	ADX	F	5.85	0.18	Actinolite	
	A7	69	71	ADX	F	11.7	0.27	Actinolite	
		70	72	ADX	F	13.47	0.54	Actinolite	
		71	73	ADX	F	20.66	0.13	Actinolite	
		72	74	ADX	F	18.86	0.27	Actinolite	
	C6	73	75	ADX	F	11.23	0.13	Actinolite	
	C4	74	76	ADX	F	12.15	0.13	Actinolite	
		75		ADX	CF21	6	0.5	Actinolite	
			77	ADX	CF	5.94	0.23	Actinolite	
			78	ADX	CF	3.79	0.23	Actinolite	
		76	79	ADX	B	6.74	0.23	Actinolite	
	C2	77	80	ADX	F	21.06	0.18	Actinolite	
		78	81	ADX	F	8.37	0.36	Actinolite	
		79	82	ADX	F	8.1	0.45	Actinolite	
		80	83	ADX	F	6.74	0.09	Actinolite	
		81	84	ADX	B	16.2	0.09	Actinolite	
	E1	82	85	ADX	F	5.85	0.36	Actinolite	
		83	86	AZQ	F	8.8	0.18	Actinolite	
		84	87	ADX	F	12.6	0.36	Actinolite	
		85	88	ADX	F	29.19	1.8	Actinolite	
		86	89	ADX	B	5.4	0.27	Actinolite	
	E3	87	90	ADX	F	5.4	0.45	Actinolite	
		88	91	ADX	B	5.4	0.09	Actinolite	
		89	92	ADX	B	15.72	0.27	Actinolite	
		90	93	ADX	F	7.2	0.45	Actinolite	
	E7	91	94	ADX	F	17.1	0.18	Actinolite	
		92	95	ADX	F	25.2	0.23	Actinolite	
		93	96	ADX	B	7.2	0.18	Actinolite	

TEM asbestos structure count					
Report Number:	LLH901997-26				
Sample Number:	3158820.HTA2			Sample Weight:	0.0001
Sample Description:	#7 - CB-3 #8			Filter area (mm ²):	1220
				Magnification:	10/20 KX
				Grid opening dimension (mm ²)	0.00878032
Preparation date:	06/22/20	By:	RAM		
Analysis date:	07/13/20	By:	JM	Level of analysis (chrysotile)	NA
Computer entry date:	08/8/20	By:	MMK	Level of analysis (amphibole)	AZQ

Grid	Grid Opening	Structures		Identification	Structure type	Length (µm)	Width (µm)	Fibre Type	Comments
		primary	total						
				ADX		7.65	0.18	Actinolite	Not tabulated; touches top or left grid bar
		94	97	ADX	F	5.18	0.18	Actinolite	
	G4	95	98	ADX	F	26.94	2.25	Actinolite	
	G2	96	99	ADX	F	11.7	0.09	Actinolite	
2	I1	97	100	ADX	F	26.57	4.37	Actinolite	
		98	101	ADX	F	5.52	0.97	Actinolite	
		99	102	ADX	F	1.38	0.15	Actinolite	
		100	103	ADX	F	1.38	0.15	Actinolite	
		101	104	ADX	F	47.18	1.15	Actinolite	
		102	105	AZQ	F	7.02	0.1	Actinolite	
		103		ADX	MD11	10.54	1	Actinolite	
			106	ADX	MF	10.54	0.1	Actinolite	
		104		AZQ	CD22	14.23	0.3	Actinolite	
			107	AZQ	CF	6.44	0.3	Actinolite	
			108	ADX	CF	7.79	0.05	Actinolite	
		105	109	ADX	F	1.61	0.2	Actinolite	
		106	110	ADX	F	1.38	0.1	Actinolite	
		107		ADX	MD10	2.1	1	Actinolite	
			111	ADX	MF	1.53	0.2	Actinolite	
		108	112	ADX	F	1.38	0.1	Actinolite	
		109	113	ADX	F	2.19	0.1	Actinolite	
		110	114	ADX	F	3.43	0.15	Actinolite	
		111	115	ADX	F	3.33	0.46	Actinolite	
	I3	112	116	ADX	F	1.84	0.2	Actinolite	
		113	117	ADX	F	1.15	0.1	Actinolite	
		114	118	ADX	F	2.29	0.1	Actinolite	
		115	119	ADX	F	2.29	0.2	Actinolite	
		116	120	ADX	F	3.68	0.1	Actinolite	
		117	121	ADX	F	2.39	0.4	Actinolite	
		118	122	ADX	F	2.99	0.3	Actinolite	
		119	123	ADX	F	4.37	0.3	Actinolite	
		120	124	ADX	B	9.16	0.92	Actinolite	
	I5	121	125	ADX	F	2.07	0.2	Actinolite	
		122	126	ADX	F	8.25	0.3	Actinolite	
		123	127	ADX	F	1.61	0.05	Actinolite	
		124	128	AZQ	F	9.85	0.15	Actinolite	
		125	129	ADX	F	3.68	0.3	Actinolite	
		126	130	ADX	F	6.87	0.92	Actinolite	
		127	131	ADX	F	6.67	0.61	Actinolite	

TEM asbestos structure count					
Report Number:	LLH901997-26				
Sample Number:	3158820.HTA2		Sample Weight:	0.0001	
Sample Description:	#7 - CB-3 #8		Filter area (mm ²):	1220	
			Magnification:	10/20 KX	
			Grid opening dimension (mm ²)	0.00878032	
Preparation date:	06/22/20	By:	RAM		
Analysis date:	07/13/20	By:	JM	Level of analysis (chrysotile)	NA
Computer entry date:	08/8/20	By:	MMK	Level of analysis (amphibole)	AZQ

Grid	Grid Opening	Structues		Identification	Structure type	Length (µm)	Width (µm)	Fibre Type	Comments
		primary	total						
		128	132	ADX	F	2.07	0.1	Actinolite	
		129	133	ADX	F	1.53	0.3	Actinolite	
		130	134	AZQ	B	10.81	0.1	Actinolite	
		131	135	ADX	F	1.84	0.15	Actinolite	
		132	136	ADX	F	4.37	0.46	Actinolite	
		133	137	ADX	F	3.68	0.3	Actinolite	
3	B1	134	138	AZQ	F	39.52	0.27	Actinolite	
		135	139	ADX	F	5.85	0.18	Actinolite	
		136	140	AZQ	F	11.23	0.18	Actinolite	
		137	141	AZQ	F	10.8	0.18	Actinolite	
		138	142	ADX	F	6.98	0.18	Actinolite	
	B3			ADX	F	9.45	0.36	Actinolite	Not tabulated; touches top or left grid bar
		139	143	ADX	F	7.65	0.45	Actinolite	
		140	144	ADX	F	5.58	0.18	Actinolite	
	B5	141	145	ADX	F	14.37	0.36	Actinolite	
		142	146	ADX	F	9.9	0.09	Actinolite	
		143	147	ADX	F	17.1	0.18	Actinolite	
		144	148	ADX	F	6.3	0.09	Actinolite	
		145	149	ADX	F	8.1	0.36	Actinolite	
		146	150	ADX	F	15.72	0.27	Actinolite	
		147	151	AZQ	F	14.4	0.27	Actinolite	
		148	152	ADX	F	6.3	0.13	Actinolite	
	B7	149	153	ADX	F	10.35	0.54	Actinolite	
		150	154	ADX	B	10.18	0.18	Actinolite	
	B9	151	155	ADX	F	5.4	0.36	Actinolite	
	D9	152	156	ADX	B	11.7	0.63	Actinolite	
		153	157	ADX	F	17.1	0.36	Actinolite	
	D7			ADX	F	5.4	0.72	Actinolite	Not tabulated; touches top or left grid bar
	D5	154	158	ADX	F	8.1	0.27	Actinolite	
		155	159	ADX	F	9.9	1.08	Actinolite	
		156	160	ADX	F	7.2	0.9	Actinolite	
		157	161	ADX	F	7.2	1.08	Actinolite	
	D3			No Fibres				Actinolite	
	D1	158	162	ADX	F	13.83	0.09	Actinolite	

TEM asbestos structure count					
Report Number:	LLH901997-26				
Sample Number:	3158820.HTA2		Sample Weight:	0.0001	
Sample Description:	#7 - CB-3 #8		Filter area (mm ²):	1220	
			Magnification:	10/20 KX	
			Grid opening dimension (mm ²)	0.00878032	
Preparation date:	06/22/20	By:	RAM		
Analysis date:	07/13/20	By:	JM	Level of analysis (chrysotile)	NA
Computer entry date:	08/8/20	By:	MMK	Level of analysis (amphibole)	AZQ

Grid	Grid Opening	Structues		Identification	Structure type	Length (µm)	Width (µm)	Fibre Type	Comments
		primary	total						
		159	163	ADX	F	17.96	0.9	Actinolite	
	F1	160	164	ADX	F	11.44	0.63	Actinolite	
	F3	161	165	ADX	F	8.1	1.35	Actinolite	
	F7			AZQ	F	8.98	0.18	Actinolite	Not tabulated; touches top or left grid bar
		162		AZQ	MD11	16.5	1.5	Actinolite	
			166	AZQ	MF	15.72	0.27	Actinolite	
		163	167	ADX	F	13.92	0.27	Actinolite	
		164	168	ADX	B	7.2	0.09	Actinolite	
		165	169	ADX	F	13.47	0.09	Actinolite	
		166	170	ADX	F	6.74	1.08	Actinolite	

Final Laboratory Report

TEM Bulk Protocol

Attention: David Raphael
K & L Gates
17 North Second Street
Harrisburg, PA 17101
US

Report Date: 07/28/2020
Sample Receipt Date:
RJ Lee Group Job No.: LLH901997-26
Authorization/P.O. No.:
Samples Received: 1
Client Job No.:

Method: EPA/R-93/600/116

TABLE 1 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos

Client Sample Number	RJLG Sample Number	Total Structures				-----Weight Percent----- Total Structures Analytical Sensitivity			
		Chry	Amph	Cleavage	Non Asbestos	Chry	Amph Asb	Amph Cleavage Fragment	Non Asbestos
#8 - CB-3 #9	3158821	0	1	11	0	< 1.7E-6 1.7E-6	1.8E-4 2.1E-6	2.4E-2 1.3E-6	< 1.2E-6 1.2E-6

NOTES

- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2×10^{-3} ng/ μ m³, density of chrysotile: 2.55×10^{-3} ng/ μ m³, density of non-asbestos: 3.00×10^{-3} ng/ μ m³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
- These results are submitted pursuant to RJ Lee Group'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 these results are used or interpreted.

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RJ Lee Group Job No: LLH901997-26
 Client Job No/Name:

Client: K & L Gates
 Report Date: 07/28/2020

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos 5 μm

Client Sample Number	RJLG Sample Number	-----Structures 5 μm-----				-----Weight Percent----- Structures 5 μm Analytical Sensitivity			
		Chry	Amph	Cleavage	Non-Asbestos	Amphibole			
						Chry	Asb	Cleavage Fragment	Non-Asbestos
#8 - CB-3 #9	3158821	0	1	2	0	<u>< 1.7E-5</u> 1.7E-5	<u>1.8E-4</u> 2.1E-5	<u>1.1E-2</u> 1.3E-5	<u>< 1.2E-5</u> 1.2E-5

NOTES

- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2 * 10⁻³ ng/ μ m³, density of chrysotile: 2.55 * 10⁻³ ng/ μ m³, density of non-asbestos: 3.00 * 10⁻³ ng/ μ m³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
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RJ Lee Group, Inc.

RJ Lee Group Job No: LLH901997-26
Client Job No/Name:

Final Laboratory Report (cont'd)

Client: K & L Gates
Report Date: 07/28/2020

Client Sample Number	RJLG Sample Number	Material Used (gm)	Area Analyzed Total (mm ²)	Area Analyzed 5 μm (mm ²)	Effective Filter Area (mm ²)	Dilution Factor
#8 - CB-3 #9	3158821	0.0006	0.30731	0.30731	1220	1.0

Authorized Signature: 
Ashleigh Sload, Scientist

NOTES

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- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2×10^{-3} ng/μm³, density of chrysotile: 2.55×10^{-3} ng/μm³, density of non-asbestos: 3.00×10^{-3} ng/μm³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
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RJL: LLH901997-26	3158821.HTA1	Microscope tem2000fx1	Grid Openings	10
#8 - CB-3 #9	K & L Gates	Magnification 21 KX	Asbestos	0.0
Wt: 0.0006 gm	Grid: 0.0088 mm ²	Acc. Voltage 120 KV	Asbestos >= 5µm	0.0
Dil: 1.0	Filter Size: 47 mm	Operator: Jon Swope	Nonasbestos	9.0
HQ45480		Cv = 0	Nonasbestos >= 5µm	0.0
			% Wt of largest asbestos structure	%

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1	1	4.2	0.7	Amphibole		MgSiCaFeAl	6534C	Image1	Diff1	Acti	Cle
1	2	3.5	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
1	3	1.4	0.22	Amphibole		MgSiCaFe			X	Acti	Cle
2	1	2.1	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
3				NSD							
4	1	1.9	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
5				NSD							
6	1	3.4	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
7	1	1.2	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
8				NSD							
9	1	3.7	0.4	Amphibole		MgSiCaFe			X	Acti	Cle
9	2	2.1	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
10				NSD							

10% Particulate

Analyst's Comments: N/A

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 7/23/2020 2:37:54 PM approve by Jon Swope

Final Review: 7/28/20 3:24 PM approve by Ashleigh Sload

RJL: LLH901997-26	3158821.HTA1	Microscope tem2000fx1	Grid Openings	25
#8 - CB-3 #9	K & L Gates	Magnification 10 KX	Asbestos	1.0
Wt: 0.0006 gm	Grid: 0.0088 mm ²	Acc. Voltage 120 KV	Nonasbestos	2.0
Dil: 1.0	Filter Size: 47 mm	Operator: Jon Swope	% Wt of largest asbestos structure	%
HQ45480		Cv = 0.038		

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1				NSD							
2				NSD							
3				NSD							
4				NSD							
5				NSD							
6				NSD							
7				NSD							
8				NSD							
9				NSD							
10				NSD							
11				NSD							
12				NSD							
13				NSD							
14				NSD							
15				NSD							
16				NSD							
17				NSD							
18	1	5.3	0.12	Amphibole	F	MgSiCaFe16535C	Image1	Diff2	Acti	Asb	
19				NSD							
20	1	6.4	0.5	Amphibole		MgSiCaFe		X	Acti	Cle	
20	2	7.5	0.9	Amphibole		MgSiCaFe		X	Acti	Cle	
21				NSD							
22				NSD							
23				NSD							
24				NSD							
25				NSD							

10% Particulate

Analyst's Comments: N/A

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 7/23/2020 3:28:37 PM approve by Jon Swope

Final Review: 7/28/20 3:24 PM approve by Ashleigh Sload

Final Laboratory Report

TEM Bulk Protocol

Attention: David Raphael
K & L Gates
17 North Second Street
Harrisburg, PA 17101
US

Report Date: 07/28/2020
Sample Receipt Date:
RJ Lee Group Job No.: LLH901997-26
Authorization/P.O. No.:
Samples Received: 1
Client Job No.:

Method: ISO 22262-2

TABLE 1 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos

Client Sample Number	RJLG Sample Number	<u>Total Structures</u>				-----Weight Percent----- <u>Total Structures</u> Analytical Sensitivity			
		Chry	Amph	Cleavage	Non Asbestos	Chry	Amph Asb	Amph Cleavage Fragment	Non Asbestos
#8 - CB-3 #9	3158821	0	1	11	0	<u>< 1.7E-6</u> 1.7E-6	<u>1.1E-4</u> 1.3E-6	<u>2.4E-2</u> 1.3E-6	<u>< 1.2E-6</u> 1.2E-6

NOTES

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2. Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
3. If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
4. Density of amphibole: 3.2×10^{-3} ng/ μ m³, density of chrysotile: 2.55×10^{-3} ng/ μ m³, density of non-asbestos: 3.00×10^{-3} ng/ μ m³.
5. Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
6. Samples will be held for 90 days and then disposed of per Federal regulations.
7. These results are submitted pursuant to RJ Lee Group'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 these results are used or interpreted.

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RJ Lee Group Job No: LLH901997-26
 Client Job No/Name:

Client: K & L Gates
 Report Date: 07/28/2020

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos 5 μm

Client Sample Number	RJLG Sample Number	-----Structures 5 μm-----				-----Weight Percent----- Structures 5 μm Analytical Sensitivity			
		Chry	Amph	Cleavage	Non-Asbestos	Amphibole			
						Chry	Asb	Cleavage Fragment	Non-Asbestos
#8 - CB-3 #9	3158821	0	1	2	0	$\leq 1.7E-5$ 1.7E-5	$1.1E-4$ 1.3E-5	$1.1E-2$ 1.3E-5	$\leq 1.2E-5$ 1.2E-5

NOTES

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- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2×10^{-3} ng/μm³, density of chrysotile: 2.55×10^{-3} ng/μm³, density of non-asbestos: 3.00×10^{-3} ng/μm³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
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RJ Lee Group, Inc.

RJ Lee Group Job No: LLH901997-26
Client Job No/Name:

Final Laboratory Report (cont'd)

Client: K & L Gates
Report Date: 07/28/2020

Client Sample Number	RJLG Sample Number	Material Used (gm)	Area Analyzed Total (mm ²)	Area Analyzed 5 μm (mm ²)	Effective Filter Area (mm ²)	Dilution Factor
#8 - CB-3 #9	3158821	0.0006	0.30731	0.30731	1220	1.0

Authorized Signature: 
Ashleigh Sload, Scientist

NOTES

- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2×10^{-3} ng/μm³, density of chrysotile: 2.55×10^{-3} ng/μm³, density of non-asbestos: 3.00×10^{-3} ng/μm³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
- These results are submitted pursuant to RJ Lee Group'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 these results are used or interpreted.

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RJ Lee Group, Inc
LLH901997-26
3158821.HTA1

K & L Gates
#8 - CB-3 #9

23-Jul-20

Air volume:
Area of collection filter:
Volume flowrate:
Level of analysis (chrysotile): NA
Level of analysis (amphibole): AZQ
Magnification used for structure counting:
Aspect ratio for fibre definition: 3:1
Mean dimension of grid openings: 0.00878032
Initials of analyst: JS
Number of grid openings examined: 35
Analytical sensitivity:
Number of primary asbestos structures: 13
Number of asbestos structures counted: 13
Number of asbestos structures >5 µm: 3
Number of fibres and bundles > 5 µm: 3
Number of PCM equivalent asbestos structures: 2
Number of PCM equivalent asbestos fibres: 2

TEM asbestos structure count					
Report Number:	LLH901997-26			Sample Weight:	0.0006
Sample Number:	3158821.HTA1			Filter area (mm ²):	1220
Sample Description:	#8 - CB-3 #9			Magnification:	10/20 KX
				Grid opening dimension (mm ²)	0.00878032
Preparation date:	06/22/20	By:	RAM		
Analysis date:	07/23/20	By:	JS	Level of analysis (chrysotile)	NA
Computer entry date:	08/8/20	By:	MMK	Level of analysis (amphibole)	AZQ

Grid	Grid Opening	Structures		Identification	Structure type	Length (µm)	Width (µm)	Fibre Type	Comments
		primary	total						
1	H1	1	1	AZQ	F	4.2	0.7	Actinolite	
		2	2	ADX	F	3.5	0.3	Actinolite	
		3	3	ADX	F	1.4	0.22	Actinolite	
	H3	4	4	ADX	F	2.1	0.2	Actinolite	
	H5			No Fibres					
	H7	5	5	ADX	F	1.9	0.3	Actinolite	
	H9	6	6	No Fibres					
	B1			No Fibres					
	B3			No Fibres					
	B5			No Fibres					
	B7			No Fibres					
	B9			No Fibres					
	D9			No Fibres					
D7			No Fibres						
D5			No Fibres						
D3			No Fibres						
D1			No Fibres						
F1			No Fibres						
F3			No Fibres						
F7			No Fibres						
2	B1			No Fibres					
	B3			No Fibres					
	B5			No Fibres					
	B7			No Fibres					
	B9	7	7	AZQ	F	5.3	0.12	Actinolite	
	D9			No Fibres					
	D7	8	8	ADX	F	6.4	0.5	Actinolite	
		9	9	ADX	F	7.5	0.9	Actinolite	
	D5			No Fibres					
	D3			No Fibres					
	D1			No Fibres					
	F1			No Fibres					
	F3			No Fibres					
H1	10	10	ADX	F	3.4	0.3	Actinolite		
H3	11	11	ADX	F	1.2	0.2	Actinolite		
H5									
H7	12	12	ADX	F	3.7	0.4	Actinolite		
	13	13	ADX	F	0.2	0.2	Actinolite		
H9									

Final Laboratory Report

TEM Bulk Protocol

Attention: David Raphael
K & L Gates
17 North Second Street
Harrisburg, PA 17101
US

Report Date: 08/11/2020
Sample Receipt Date:
RJ Lee Group Job No.: LLH901997-26
Authorization/P.O. No.:
Samples Received: 1
Client Job No.:

Method: EPA/R-93/600/116

TABLE 1 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos

Client Sample Number	RJLG Sample Number	Total Structures				-----Weight Percent----- Total Structures Analytical Sensitivity			
		Chry	Amph	Cleavage	Non Asbestos	Chry	Amph Asb	Amph Cleavage Fragment	Non Asbestos
#9 - CB-4 #10	3158822	0	11	70	1	< 5.0E-6 5.0E-6	1.5E-1 6.2E-6	9.1E-1 4.0E-6	1.1E-3 3.7E-6

NOTES

- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2×10^{-3} ng/ μ m³, density of chrysotile: 2.55×10^{-3} ng/ μ m³, density of non-asbestos: 3.00×10^{-3} ng/ μ m³.
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RJ Lee Group Job No: LLH901997-26
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/11/2020

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos 5 μm

Client Sample Number	RJLG Sample Number	-----Structures 5 μm-----				-----Weight Percent----- Structures 5 μm Analytical Sensitivity			
		Chry	Amph	Cleavage	Non-Asbestos	Amphibole			
						Chry	Asb	Cleavage Fragment	Non-Asbestos
#9 - CB-4 #10	3158822	0	5	6	0	<u>< 5.0E-5</u> 5.0E-5	<u>1.4E-1</u> 6.2E-5	<u>8.4E-1</u> 4.0E-5	<u>< 3.7E-5</u> 3.7E-5

NOTES

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- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2 * 10⁻³ ng/ μ m³, density of chrysotile: 2.55 * 10⁻³ ng/ μ m³, density of non-asbestos: 3.00 * 10⁻³ ng/ μ m³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
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RJ Lee Group, Inc.

RJ Lee Group Job No: LLH901997-26
Client Job No/Name:

Final Laboratory Report (cont'd)

Client: K & L Gates
Report Date: 08/11/2020

Client Sample Number	RJLG Sample Number	Material Used (gm)	Area Analyzed Total (mm ²)	Area Analyzed 5 μm (mm ²)	Effective Filter Area (mm ²)	Dilution Factor
#9 - CB-4 #10	3158822	0.0002	0.30731	0.30731	1220	1.0

Authorized Signature: 
Ashleigh Sload, Scientist

NOTES

- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
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- Density of amphibole: 3.2×10^{-3} ng/μm³, density of chrysotile: 2.55×10^{-3} ng/μm³, density of non-asbestos: 3.00×10^{-3} ng/μm³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
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RJL: LLH901997-26	3158822.HTA2	Microscope tem2000fx2	Grid Openings	10
#9 - CB-4 #10	K & L Gates	Magnification 21 KX	Asbestos	8.0
Wt: 0.0002 gm	Grid: 0.0088 mm ²	Acc. Voltage 120 KV	Asbestos >= 5µm	2.0
Dil: 1.	Filter Size: 47 mm	Operator: Jon Swope	Nonasbestos	68.0
HQ45480		Cv = 0.96	Nonasbestos >= 5µm	3.0
			% Wt of largest asbestos structure	%

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1	1	3.1	0.25	Amphibole		MgSiCaFe	16463C	Image1	Diff1	Acti	Cle
1	2	1.8	0.3	Amphibole		MgSiCaFe		Image2	X	Acti	Cle
1	3	2.3	0.3	Amphibole		MgSiCaFe		Image3	X	Acti	Cle
1	4	2.1	0.25	Amphibole		MgSiCaFe		Image4	X	Acti	Cle
1	5	3.5	0.4	Amphibole		MgSiCaFe		Image5	X	Acti	Cle
1	6	1.9	0.3	Amphibole		MgSiCaFe		Image6	X	Acti	Cle
1	7	2.1	0.12	Amphibole		MgSiCaFe		Image7 Image8	X	Acti	Cle
1	8	1.7	0.25	Amphibole		MgSiCaFe		Image9	X	Acti	Cle
1	9	1.55	0.22	Amphibole		MgSiCaFe		Image10	X	Acti	Cle
2	1	2.3	0.25	Amphibole		MgSiCaFe	16464C	Image11	Diff2	Acti	Cle
2	2	9.5	0.15	Amphibole	F	MgSiCaFe	16465C	Image12	Diff3	Acti	Asb
2	3	2.2	0.3	Amphibole		MgSiCaFe		Image13	X	Acti	Cle
2	4	2.1	0.2	Amphibole		MgSiCaFe		Image14	X	Acti	Cle
2	5	1.1	0.2	Amphibole		MgSiCaFe		Image15	X	Acti	Cle
2	6	2.3	0.3	Amphibole		MgSiCaFe		Image16	X	Acti	Cle
2	7	9.9	0.9	Amphibole		MgSiCaFe		Image17	X	Acti	Cle
2	8	2.4	0.2	Amphibole		MgSiCaFe		Image18	X	Acti	Cle
2	9	5.6	0.45	Amphibole	B	MgSiCaFe		Image19	X	Acti	Asb
3	1	1.9	0.3	Amphibole		MgSiCaFe		Image20	X	Acti	Cle
3	2	1.35	0.08	Amphibole	F	MgSiCaFe		Image21	X	Acti	Asb
3	3	1.45	0.15	Amphibole		MgSiCaFe		Image22	X	Acti	Cle
3	4	1.75	0.2	Amphibole		MgSiCaFe		Image23	X	Acti	Cle
3	5	3.7	0.45	Amphibole		MgSiCaFe		Image24	X	Acti	Cle
4	1	1.65	0.22	Amphibole		MgSiCaFe		Image25	X	Acti	Cle
4	2	2.2	0.2	Amphibole		MgSiCaFe		Image26	X	Acti	Cle
4	3	1.4	0.2	Amphibole		MgSiCaFe		Image27	X	Acti	Cle
4	4	2.3	0.2	Amphibole		MgSiCaFe		Image28	X	Acti	Cle
4	5	0.96	0.15	Amphibole		MgSiCaFe		Image29	X	Acti	Cle
4	6	3.5	0.4	Amphibole		MgSiCaFe		Image30	X	Acti	Cle
4	7	1.3	0.2	Amphibole		MgSiCaFe		Image31	X	Acti	Cle
5	1	1.7	0.2	Amphibole		MgSiCaFe	16466C	Image32	Diff4	Acti	Cle
5	2	4.2	0.25	Amphibole	M	MgSiCaFe		Image33	X	Acti	Asb
5	3	16.7	1.9	Amphibole		MgSiCaFe		Image34	X	Acti	Cle
5	4	1.45	0.2	Amphibole		MgSiCaFe		Image35	X	Acti	Cle
5	5	1.75	0.1	Amphibole		MgSiCaFe		Image36	X	Acti	Cle
5	6	1.3	0.18	Amphibole		MgSiCaFe		Image37	X	Acti	Cle
5	7	3.8	0.15	Amphibole	F	MgSiCaFe		Image38	X	Acti	Asb
5	8	1.5	0.05	Amphibole	F	MgSiCaFe		Image39	X	Acti	Asb
5	9	1.2	0.2	Amphibole		MgSiCaFe		Image40	X	Acti	Cle
5	10	3.8	0.4	Amphibole		MgSiCaFe	16467C	Image41	Diff5	Acti	Cle
6	1	2.4	0.12	Amphibole		MgSiCaFe		Image42	X	Acti	Cle
6	2	1.3	0.2	Amphibole		MgSiCaFe		Image43	X	Acti	Cle
6	3	1.95	0.3	Amphibole		MgSiCaFe		Image44	X	Acti	Cle

RJL: LLH901997-26	3158822.HTA2	Microscope tem2000fx2	Grid Openings	10
#9 - CB-4 #10	K & L Gates	Magnification 21 KX	Asbestos	8.0
Wt: 0.0002 gm	Grid: 0.0088 mm ²	Acc. Voltage 120 KV	Asbestos >= 5µm	2.0
Dil: 1.	Filter Size: 47 mm	Operator: Jon Swope	Nonasbestos	68.0
HQ45480		Cv = 0.96	Nonasbestos >= 5µm	3.0
			% Wt of largest asbestos structure	%

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
6	4	1.4	0.33	Amphibole		MgSiCaFe		Image45	X	Acti	Cle
6	5	1.1	0.16	Amphibole		MgSiCaFe		Image46	X	Acti	Cle
6	6	0.65	0.12	Amphibole		MgSiCaFe		Image47	X	Acti	Cle
6	7	2.6	0.45	Amphibole		MgSiCaFe		Image48	X	Acti	Cle
6	8	1.25	0.2	Amphibole		MgSiCaFe		Image49	X	Acti	Cle
6	9	2.3	0.4	Amphibole		MgSiCaFe		Image50	X	Acti	Cle
6	10	1.8	0.25	Amphibole		MgSiCaFe		Image51	X	Acti	Cle
6	11	4.3	0.3	Amphibole		MgSiCaFe	16468C	Image52	Diff6	Acti	Cle
6	12	2.8	0.45	Amphibole		MgSiCaFe		Image53	X	Acti	Cle
7	1	1.1	0.2	Amphibole		MgSiCaFe		Image54	X	Acti	Cle
7	2	1.25	0.22	Amphibole		MgSiCaFe		Image55	X	Acti	Cle
7	3	2.2	0.22	Amphibole		MgSiCaFe		Image56	X	Acti	Cle
7	4	1.95	0.3	Amphibole		MgSiCaFe		Image57	X	Acti	Cle
7	5	5.9	0.4	Amphibole		MgSiCaFe		Image58	X	Acti	Cle
7	6	1.2	0.15	Amphibole		MgSiCaFe		Image59	X	Acti	Cle
8	1	1.55	0.25	Amphibole		MgSiCaFe		Image60	X	Acti	Cle
8	2	2.05	0.3	Amphibole		MgSiCaFe	16469C	Image61	Diff7	Acti	Cle
8	3	3.8	0.65	Amphibole		MgSiCaFe		Image62	X	Acti	Cle
8	4	1.5	0.22	Amphibole		MgSiCaFe		Image63	X	Acti	Cle
8	5	2.6	0.4	Amphibole		MgSiCaFe		Image64	X	Acti	Cle
8	6	4.22	0.22	Amphibole		MgSiCaFe		Image65	X	Acti	Cle
8	7	1.55	0.2	Amphibole		MgSiCaFe		Image66	X	Acti	Cle
8	8	1.7	0.25	Non-Asbestos		Si	16470C	Image67	X		
9	1	1.9	0.3	Amphibole		MgSiCaFe		Image68	X	Acti	Cle
9	2	2.5	0.15	Amphibole	F	MgSiCaFe		Image69	X	Acti	Asb
9	3	1.05	0.12	Amphibole		MgSiCaFe		Image70	X	Acti	Cle
9	4	2.1	0.2	Amphibole		MgSiCaFe	16471C	Image71	Diff8	Acti	Cle
10	1	1.9	0.22	Amphibole		MgSiCaFe		Image72	X	Acti	Cle
10	2	1.25	0.2	Amphibole		MgSiCaFe		Image73	X	Acti	Cle
10	3	1.95	0.3	Amphibole		MgSiCaFe		Image74	X	Acti	Cle
10	4	1.5	0.25	Amphibole		MgSiCaFe		Image75	X	Acti	Cle
10	5	1.55	0.05	Amphibole	M	MgSiCaFe		Image76	X	Acti	Asb
10	6	2.35	0.3	Amphibole		MgSiCaFe		Image77	X	Acti	Cle

10% Particulate

Analyst's Comments: analysis completed on the 2000i

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 7/16/2020 12:49:54 PM approve by Jon Swope

Final Review: 8/11/20 3:45 PM approve by Ashleigh Sload

RJL: LLH901997-26	3158822.HTA2	Microscope tem2000fx1	Grid Openings	25
#9 - CB-4 #10	K & L Gates	Magnification 10 KX	Asbestos	3.0
Wt: 0.0002 gm	Grid: 0.0088 mm ²	Acc. Voltage 120 KV	Nonasbestos	3.0
Dil: 1.	Filter Size: 47 mm	Operator: Jon Swope	% Wt of largest asbestos structure	%
HQ45480		Cv = 0.106		

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1				NSD							
2				NSD							
3				NSD							
4				NSD							
5				NSD							
6				NSD							
7				NSD							
8				NSD							
9				NSD							
10				NSD							
11	1	6.75	0.12	Amphibole	F	MgSiCaFeAl	6462C	Image1	Diff1 Diff2	Acti	Asb
12				NSD							
13	1	10.25	0.3	Amphibole	B	MgSiCaFe		Image2	X	Acti	Asb
14				NSD							
15				NSD							
16				NSD							
17				NSD							
18				NSD							
19				NSD							
20	1	5.5	0.7	Amphibole		MgSiCaFe		Image3	X	Acti	Cle
21				NSD							
22				NSD							
23				NSD							
24	1	5.5	0.7	Amphibole		MgSiCaFe		Image4	X	Acti	Cle
24	2	9.7	1.3	Amphibole	B	MgSiCaFe		Image5	X	Acti	Asb
25	1	9.4	1.2	Amphibole		MgSiCaFe		Image6	X	Acti	Cle

10% Particulate

Analyst's Comments: N/A

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 7/16/2020 10:24:46 AM approve by Jon Swope

Final Review: 8/11/20 3:45 PM approve by Ashleigh Sload

Final Laboratory Report

TEM Bulk Protocol

Attention: David Raphael
K & L Gates
17 North Second Street
Harrisburg, PA 17101
US

Report Date: 08/11/2020
Sample Receipt Date:
RJ Lee Group Job No.: LLH901997-26
Authorization/P.O. No.:
Samples Received: 1
Client Job No.:

Method: ISO 22262-2

TABLE 1 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos

Client Sample Number	RJLG Sample Number	<u>Total Structures</u>				-----Weight Percent----- <u>Total Structures</u> Analytical Sensitivity			
		Chry	Amph	Cleavage	Non Asbestos	Chry	Amph Asb	Amph Cleavage Fragment	Non Asbestos
#9 - CB-4 #10	3158822	0	11	70	1	< 5.0E-6 5.0E-6	9.4E-2 4.0E-6	9.5E-1 4.0E-6	1.1E-3 3.7E-6

NOTES

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3. If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
4. Density of amphibole: 3.2×10^{-3} ng/ μ m³, density of chrysotile: 2.55×10^{-3} ng/ μ m³, density of non-asbestos: 3.00×10^{-3} ng/ μ m³.
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RJ Lee Group Job No: LLH901997-26
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/11/2020

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos 5 μm

Client Sample Number	RJLG Sample Number	-----Structures 5 μm-----				-----Weight Percent----- Structures 5 μm Analytical Sensitivity Amphibole			
		Chry	Amph	Cleavage	Non-Asbestos	Chry	Asb	Cleavage Fragment	Non-Asbestos
#9 - CB-4 #10	3158822	0	5	6	0	<u>< 5.0E-5</u> 5.0E-5	<u>9.0E-2</u> 4.0E-5	<u>8.4E-1</u> 4.0E-5	<u>< 3.7E-5</u> 3.7E-5

NOTES

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- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2 * 10⁻³ ng/ μ m³, density of chrysotile: 2.55 * 10⁻³ ng/ μ m³, density of non-asbestos: 3.00 * 10⁻³ ng/ μ m³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
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RJ Lee Group, Inc.

RJ Lee Group Job No: LLH901997-26
Client Job No/Name:

Final Laboratory Report (cont'd)

Client: K & L Gates
Report Date: 08/11/2020

Client Sample Number	RJLG Sample Number	Material Used (gm)	Area Analyzed Total (mm ²)	Area Analyzed 5 μm (mm ²)	Effective Filter Area (mm ²)	Dilution Factor
#9 - CB-4 #10	3158822	0.0002	0.30731	0.30731	1220	1.0

Authorized Signature: 
Ashleigh Sload, Scientist

NOTES

- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
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- Density of amphibole: 3.2×10^{-3} ng/μm³, density of chrysotile: 2.55×10^{-3} ng/μm³, density of non-asbestos: 3.00×10^{-3} ng/μm³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
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RJ Lee Group, Inc
LLH901997-26
3158822.HTA2

K & L Gates
#9 - CB-4 #10

16-Jul-20

Air volume:
Area of collection filter:
Volume flowrate:
Level of analysis (chrysotile): NA
Level of analysis (amphibole): AZQ
Magnification used for structure counting:
Aspect ratio for fibre definition: 3:1
Mean dimension of grid openings: 0.00878032
Initials of analyst: JS
Number of grid openings examined: 35
Analytical sensitivity:
Number of primary asbestos structures: 81
Number of asbestos structures counted: 81
Number of asbestos structures >5 µm: 11
Number of fibres and bundles > 5 µm: 11
Number of PCM equivalent asbestos structures: 9
Number of PCM equivalent asbestos fibres: 7

TEM asbestos structure count					
Report Number:	LLH901997-26			Sample Weight:	0.0002
Sample Number:	3158822.HTA2			Filter area (mm2):	1220
Sample Description:	#9 - CB-4 #10			Magnification:	10/20 KX
				Grid opening dimension (mm2)	0.00878032
Preparation date:	06/22/20	By:	RAM		
Analysis date:	07/16/20	By:	JS	Level of analysis (chrysotile)	NA
Computer entry date:	08/8/20	By:	MMK	Level of analysis (amphibole)	AZQ

Grid	Grid Opening	Structures		Identification	Structure type	Length (µm)	Width (µm)	Fibre Type	Comments
		primary	total						
1	H1	1	1	AZQ	F	3.1	0.25	Actinolite	
		2	2	ADX	F	1.8	0.3	Actinolite	
		3	3	ADX	F	2.3	0.3	Actinolite	
		4	4	ADX	F	2.1	0.25	Actinolite	
		5	5	ADX	F	3.5	0.4	Actinolite	
		6	6	ADX	F	1.9	0.3	Actinolite	
		7	7	ADX	F	2.1	0.12	Actinolite	
		8	8	ADX	F	1.7	0.25	Actinolite	
		9	9	ADX	F	1.55	0.22	Actinolite	
	H3	10	10	AZQ	F	2.3	0.25	Actinolite	
		11	11	AZQ	F	9.5	0.15	Actinolite	
		12	12	ADX	F	2.2	0.3	Actinolite	
		13	13	ADX	F	2.1	0.2	Actinolite	
		14	14	ADX	F	1.1	0.2	Actinolite	
		15	15	ADX	F	2.3	0.3	Actinolite	
		16	16	ADX	F	9.9	0.9	Actinolite	
		17	17	ADX	F	2.4	0.2	Actinolite	
		18	18	ADX	F	5.6	0.45	Actinolite	
	H5	19	19	ADX	F	1.9	0.3	Actinolite	
		20	20	ADX	B	1.35	0.08	Actinolite	
		21	21	ADX	F	1.45	0.15	Actinolite	
		22	22	ADX	F	1.75	0.2	Actinolite	
		23	23	ADX	F	3.7	0.45	Actinolite	
	H7	24	24	ADX	F	1.65	0.22	Actinolite	
		25	25	ADX	F	2.2	0.2	Actinolite	
		26	26	ADX	F	1.4	0.2	Actinolite	
		27	27	ADX	F	2.3	0.2	Actinolite	
		28	28	ADX	F	0.96	0.15	Actinolite	
		29	29	ADX	F	3.5	0.4	Actinolite	
		30	30	ADX	F	1.3	0.2	Actinolite	
	H9	31	31	AZQ	F	1.7	0.2	Actinolite	
		32		ADX	MD10	4.8	1	Actinolite	
		32		ADX	MF	4.2	0.25	Actinolite	
		33	33	ADX	F	16.7	1.9	Actinolite	
		34	34	ADX	F	1.45	0.2	Actinolite	
		35	35	ADX	F	1.75	0.1	Actinolite	
		36	36	ADX	F	1.3	0.18	Actinolite	
		37	37	ADX	F	3.8	0.15	Actinolite	
		38	38	ADX	F	1.5	0.05	Actinolite	
		39	39	ADX	F	1.2	0.2	Actinolite	
		40	40	AZQ	F	3.8	0.4	Actinolite	
	B1								
	B3								

TEM asbestos structure count					
Report Number:	LLH901997-26			Sample Weight:	0.0002
Sample Number:	3158822.HTA2			Filter area (mm ²):	1220
Sample Description:	#9 - CB-4 #10			Magnification:	10/20 KX
				Grid opening dimension (mm ²)	0.00878032
Preparation date:	06/22/20	By:	RAM		
Analysis date:	07/16/20	By:	JS	Level of analysis (chrysotile)	NA
Computer entry date:	08/8/20	By:	MMK	Level of analysis (amphibole)	AZQ

Grid	Grid Opening	Structures		Identification	Structure type	Length (µm)	Width (µm)	Fibre Type	Comments
		primary	total						
	B5								
	B7								
	B9								
	D9								
	D7								
	D5								
	D3								
	D1								
	F1	41	41	AZZQ	F	6.75	0.12	Actinolite	
	F3								
	F7	42	42	ADX	B	10.25	0.3	Actinolite	
2	B1								
	B3								
	B5								
	B7								
	B9								
	D9								
	D7	43	43	ADX	F	5.5	0.7	Actinolite	
	D5								
	D3								
	D1								
	F1	44	44	ADX	F	5.5	0.7	Actinolite	
		45	45	ADX	B	9.7	1.3	Actinolite	
	F3	46	46	ADX	F	9.4	1.2	Actinolite	
	H1	47	47	ADX	F	2.4	0.12	Actinolite	
		48	48	ADX	F	1.3	0.2	Actinolite	
		49	49	ADX	F	1.95	0.3	Actinolite	
		50	50	ADX	F	1.4	0.33	Actinolite	
		51	51	ADX	F	1.1	0.16	Actinolite	
		52	52	ADX	F	0.65	0.12	Actinolite	
		53	53	ADX	F	2.6	0.45	Actinolite	
		54	54	ADX	F	1.25	0.2	Actinolite	
		55	55	ADX	F	2.3	0.4	Actinolite	
		56	56	ADX	F	1.8	0.25	Actinolite	
		57	57	AZQ	F	4.3	0.3	Actinolite	
		58	58	ADX	F	2.8	0.45	Actinolite	
	H3	59	59	ADX	F	1.1	0.2	Actinolite	
		60	60	ADX	F	1.25	0.22	Actinolite	
		61	61	ADX	F	2.2	0.22	Actinolite	
		62	62	ADX	B	1.95	0.3	Actinolite	
		63	63	ADX	F	5.9	0.4	Actinolite	
		64	64	ADX	F	1.2	0.15	Actinolite	
	H5	65	65	ADX	F	1.55	0.25	Actinolite	

TEM asbestos structure count					
Report Number:	LLH901997-26				
Sample Number:	3158822.HTA2		Sample Weight:	0.0002	
Sample Description:	#9 - CB-4 #10		Filter area (mm ²):	1220	
			Magnification:	10/20 KX	
			Grid opening dimension (mm ²)	0.00878032	
Preparation date:	06/22/20	By:	RAM		
Analysis date:	07/16/20	By:	JS	Level of analysis (chrysotile)	NA
Computer entry date:	08/8/20	By:	MMK	Level of analysis (amphibole)	AZQ

Grid	Grid Opening	Structures		Identification	Structure type	Length (µm)	Width (µm)	Fibre Type	Comments
		primary	total						
		66	66	AZQ	F	2.05	0.3	Actinolite	
		67	67	ADX	F	3.8	0.65	Actinolite	
		68	68	ADX	F	1.5	0.22	Actinolite	
		69	69	ADX	F	2.6	0.4	Actinolite	
		70	70	ADX	F	4.22	0.22	Actinolite	
		71	71	ADX	F	1.55	0.2	Actinolite	
				NAM		1.7	0.25		
	H7	72	72	ADX	F	1.9	0.3	Actinolite	
		73	73	ADX	F	2.5	0.15	Actinolite	
		74	74	ADX	F	1.05	0.12	Actinolite	
		75	75	AZQ	F	2.1	0.2	Actinolite	
	H9	76	76	ADX	F	1.9	0.22	Actinolite	
		77	77	ADX	F	1.25	0.2	Actinolite	
		78	78	ADX	F	1.95	0.3	Actinolite	
		79	79	ADX	F	1.5	0.25	Actinolite	
		80	80	ADX	F	1.55	0.05	Actinolite	
		81	81	ADX	F	2.35	0.3	Actinolite	

Final Laboratory Report

TEM Bulk Protocol

Attention: David Raphael
K & L Gates
17 North Second Street
Harrisburg, PA 17101
US

Report Date: 08/12/2020
Sample Receipt Date:
RJ Lee Group Job No.: LLH901997-22
Authorization/P.O. No.:
Samples Received: 1
Client Job No.:

Method: EPA/R-93/600/116

TABLE 1 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos

Client Sample Number	RJLG Sample Number	Total Structures				-----Weight Percent----- Total Structures Analytical Sensitivity			
		Chry	Amph	Cleavage	Non Asbestos	Chry	Amph Asb	Amph Cleavage Fragment	Non Asbestos
1 - RH #1	3158823	0	1	46	3	< 5.0E-6 5.0E-6	1.2E-3 6.2E-6	1.3E0 4.0E-6	1.0E-1 3.7E-6

NOTES

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- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
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- Density of amphibole: 3.2×10^{-3} ng/ μ m³, density of chrysotile: 2.55×10^{-3} ng/ μ m³, density of non-asbestos: 3.00×10^{-3} ng/ μ m³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
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RJ Lee Group Job No: LLH901997-22
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/12/2020

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos 5 μm

Client Sample Number	RJLG Sample Number	-----Structures 5 μm-----				-----Weight Percent----- Structures 5 μm Analytical Sensitivity			
		Chry	Amph	Cleavage	Non-Asbestos	Chry	Asb	Cleavage Fragment	Non-Asbestos
1 - RH #1	3158823	0	1	10	0	<u>< 5.0E-5</u> 5.0E-5	<u>1.2E-3</u> 6.2E-5	<u>1.0E0</u> 4.0E-5	<u>< 3.7E-5</u> 3.7E-5

NOTES

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- Density of amphibole: 3.2 * 10⁻³ ng/ μ m³, density of chrysotile: 2.55 * 10⁻³ ng/ μ m³, density of non-asbestos: 3.00 * 10⁻³ ng/ μ m³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
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RJ Lee Group, Inc.

RJ Lee Group Job No: LLH901997-22
Client Job No/Name:

Final Laboratory Report (cont'd)

Client: K & L Gates
Report Date: 08/12/2020

Client Sample Number	RJLG Sample Number	Material Used (gm)	Area Analyzed Total (mm ²)	Area Analyzed 5 μm (mm ²)	Effective Filter Area (mm ²)	Dilution Factor
1 - RH #1	3158823	0.0002	0.30731	0.30731	1220	1.0

Authorized Signature: 
Ashleigh Sload, Scientist

NOTES

- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2×10^{-3} ng/μm³, density of chrysotile: 2.55×10^{-3} ng/μm³, density of non-asbestos: 3.00×10^{-3} ng/μm³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
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RJ Lee Group, Inc.
TEM Count Sheet

RJL: LLH901997-22	3158823.HTA2	Microscope tem1200_2	Grid Openings	10
1 - RH #1	K & L Gates	Magnification 20 KX	Asbestos	0.0
Wt: 0.0002 gm	Grid: 0.0088 mm ²	Acc. Voltage 120 KV	Asbestos >= 5µm	0.0
Dil: 1.	Filter Size: 47 mm	Operator: Jacquelyn Mershon	Nonasbestos	42.0
HQ45440		Cv = 0	Nonasbestos >= 5µm % Wt of largest asbestos structure	3.0 %

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1	1	4.17	0.8	Amphibole		MgSiCaFeAl	19806B	Image1	Diff1	Acti	Cle
1	2	2.24	0.48	Amphibole		MgSiCaFe		Image2	X	Acti	Cle
1	3	3.5	1.1	Non-Asbestos		NaMgAlSiCa	19450B	Image39	X	Feld	
1	4	1.8	0.56	Amphibole		MgSiCaFe			X	Acti	Cle
2	1	3.08	0.15	Amphibole		MgSiCaFe	19807B	Image3	Diff3 Diff4	Acti	Cle
2	2	1.12	0.12	Amphibole		MgSiCaFe		Image4	X	Acti	Cle
2	3	1.18	0.24	Amphibole		MgSiCaFe		Image5	X	Acti	Cle
2	4	4.48	0.84	Non-Asbestos		MgAlSiCaFe	19808B	Image6	X		
2	5	2.28	0.3	Amphibole		MgSiCaFe		Image7	X	Acti	Cle
2	6	2.52	0.21	Amphibole		MgSiCaFe		Image8	X	Acti	Cle
3	1	7.28	1.24	Amphibole		MgSiCaFe		Image9	X	Acti	Cle
3	2	1.39	0.18	Amphibole		MgSiCaFe		Image10	X	Acti	Cle
3	3	1.86	0.3	Amphibole		MgSiCaFe		Image11	X	Acti	Cle
3	4	4.48	0.84	Amphibole		MgSiCaFe		Image12	X	Acti	Cle
3	5	4.17	0.8	Non-Asbestos		MgAlSiCaFe		Image13	X		
3	6	1.2	0.35	Amphibole		MgSiCaFe			X	Acti	Cle
3	7	2.8	0.9	Amphibole		MgSiCaFe			X	Acti	Cle
4	1	2.1	0.42	Amphibole		MgSiCaFe		Image14	X	Acti	Cle
4	2	2.1	0.36	Amphibole		MgSiCaFe		Image15	X	Acti	Cle
4	3	3.08	0.36	Amphibole		MgSiCaFe		Image16	X	Acti	Cle
5	1	2.24	0.3	Amphibole		MgSiCaFe		Image17	X	Acti	Cle
5	2	4.48	0.68	Amphibole		MgSiCaFe		Image18	X	Acti	Cle
5	3	0.8	0.12	Amphibole		MgSiCaFe		Image19	X	Acti	Cle
6	1	1.68	0.24	Amphibole		MgSiCaFe		Image20	X	Acti	Cle
6	2	1.26	0.18	Amphibole		MgSiCaFe		Image21	X	Acti	Cle
6	3	3.08	0.48	Amphibole		MgSiCaFe		Image22	X	Acti	Cle
7	1	3.36	0.54	Amphibole		MgSiCaFe	19809B	Image23	Diff5	Acti	Cle
7	2	1.82	0.18	Amphibole		MgSiCaFe		Image24	X	Acti	Cle
7	3	2.1	0.36	Amphibole		MgSiCaFe		Image25	X	Acti	Cle
7	4	1.39	0.18	Amphibole		MgSiCaFe		Image26	X	Acti	Cle
7	5	7.2	2.25	Amphibole		MgSiCaFe			X	Acti	Cle
8	1	1.12	0.12	Amphibole		MgSiCaFe		Image27	X	Acti	Cle
8	2	5.56	0.8	Amphibole		MgSiCaFe		Image28	X	Acti	Cle
8	3	3.08	0.24	Amphibole		MgSiCaFe		Image29	X	Acti	Cle
8	4	3.54	0.36	Amphibole		MgSiCaFe		Image30	X	Acti	Cle
8	5	3.08	0.54	Amphibole		MgSiCaFe	19810B	Image31	Diff6	Acti	Cle
9	1	1.51	0.24	Amphibole		MgSiCaFe		Image32	X	Acti	Cle
9	2	2.66	0.48	Amphibole		MgSiCaFe		Image35	X	Acti	Cle
9	3	2.78	0.54	Amphibole		MgSiCaFe		Image34	X	Acti	Cle
9	4	1.96	0.12	Amphibole		MgSiCaFe		Image36	X	Acti	Cle
10	1	1.26	0.24	Amphibole		MgSiCaFe		Image37	X	Acti	Cle
10	2	3.08	0.24	Amphibole		MgSiCaFe		Image38	X	Acti	Cle

10% Particulate

RJL: LLH901997-22	3158823.HTA2	Microscope tem1200_2	Grid Openings	10
1 - RH #1	K & L Gates	Magnification 20 KX	Asbestos	0.0
Wt: 0.0002 gm	Grid: 0.0088 mm ²	Acc. Voltage 120 KV	Asbestos >= 5µm	0.0
Dil: 1.	Filter Size: 47 mm	Operator: Jacquelyn Mershon	Nonasbestos	42.0
HQ45440		Cv = 0	Nonasbestos >= 5µm	3.0
			% Wt of largest asbestos structure	%

Analyst's Comments: N/A

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 7/7/2020 1:55:52 PM approve by Jacquelyn Mershon

Final Review: 8/12/20 12:27 PM approve by Bryan Bandli

RJL: LLH901997-22	3158823.HTA2	Microscope tem1200_2	Grid Openings	25
1 - RH #1	K & L Gates	Magnification 10 KX	Asbestos	1.0
Wt: 0.0002 gm	Grid: 0.0088 mm ²	Acc. Voltage 120 KV	Nonasbestos	7.0
Dil: 1.	Filter Size: 47 mm	Operator: Jacquelyn Mershon	% Wt of largest asbestos	%
HQ45440		Cv = 0.038	structure	

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1				NSD							
2				NSD							
3				NSD							
4				NSD							
5				NSD							
6				NSD							
7				NSD							
8				NSD							
9	1	7.65	0.72	Amphibole		MgSiCaFe16559C	Image1	Diff1	Acti	Cle	
10				NSD							
11	1	6.72	0.99	Amphibole		MgSiCaFe		X	Acti	Cle	
12	1	17.1	2.25	Amphibole		MgSiCaFe		X	Acti	Cle	
13				NSD							
14	1	6.74	0.9	Amphibole		MgSiCaFe		X	Acti	Cle	
15				NSD							
16				NSD							
17				NSD							
18				NSD							
19				NSD							
20				NSD							
21	1	6.54	0.54	Amphibole		MgSiCaFe		X	Acti	Cle	
22	1	5.18	0.9	Amphibole		MgSiCaFe		X	Acti	Cle	
23	1	5.85	1.08	Amphibole		MgSiCaFe		X	Acti	Cle	
24				NSD							
25	1	5.58	0.18	Amphibole	F	MgSiCaFe	Image2	X	Acti	Asb	

10% Particulate

Analyst's Comments: N/A

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 7/28/2020 1:58:07 PM approve by Jacquelyn Mershon

Final Review: 8/12/20 12:28 PM approve by Bryan Bandli

Final Laboratory Report

TEM Bulk Protocol

Attention: David Raphael
K & L Gates
17 North Second Street
Harrisburg, PA 17101
US

Report Date: 08/12/2020
Sample Receipt Date:
RJ Lee Group Job No.: LLH901997-22
Authorization/P.O. No.:
Samples Received: 1
Client Job No.:

Method: ISO 22262-2

TABLE 1 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos

Client Sample Number	RJLG Sample Number	Total Structures				-----Weight Percent----- Total Structures Analytical Sensitivity			
		Chry	Amph	Cleavage	Non Asbestos	Chry	Amph Asb	Amph Cleavage Fragment	Non Asbestos
1 - RH #1	3158823	0	1	46	3	< 5.0E-6 5.0E-6	7.8E-4 4.0E-6	1.3E0 4.0E-6	1.0E-1 3.7E-6

NOTES

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- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2×10^{-3} ng/ μ m³, density of chrysotile: 2.55×10^{-3} ng/ μ m³, density of non-asbestos: 3.00×10^{-3} ng/ μ m³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
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RJ Lee Group Job No: LLH901997-22
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/12/2020

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos 5 μm

Client Sample Number	RJLG Sample Number	-----Structures 5 μm-----				-----Weight Percent----- Structures 5 μm Analytical Sensitivity Amphibole			
		Chry	Amph	Cleavage	Non-Asbestos	Chry	Asb	Cleavage Fragment	Non-Asbestos
1 - RH #1	3158823	0	1	10	0	<u>< 5.0E-5</u> 5.0E-5	<u>7.8E-4</u> 4.0E-5	<u>1.0E0</u> 4.0E-5	<u>< 3.7E-5</u> 3.7E-5

NOTES

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- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2 * 10⁻³ ng/ μ m³, density of chrysotile: 2.55 * 10⁻³ ng/ μ m³, density of non-asbestos: 3.00 * 10⁻³ ng/ μ m³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
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RJ Lee Group, Inc.

RJ Lee Group Job No: LLH901997-22
Client Job No/Name:

Final Laboratory Report (cont'd)

Client: K & L Gates
Report Date: 08/12/2020

Client Sample Number	RJLG Sample Number	Material Used (gm)	Area Analyzed Total (mm ²)	Area Analyzed 5 μm (mm ²)	Effective Filter Area (mm ²)	Dilution Factor
1 - RH #1	3158823	0.0002	0.30731	0.30731	1220	1.0

Authorized Signature: 
Ashleigh Sload, Scientist

NOTES

- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2×10^{-3} ng/μm³, density of chrysotile: 2.55×10^{-3} ng/μm³, density of non-asbestos: 3.00×10^{-3} ng/μm³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
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RJ Lee Group, Inc
LLH901997-22
3158823.HTA2

K & L Gates
1 - RH #1

07-Jul-20

Air volume:

Area of collection filter:

Volume flowrate:

Level of analysis (chrysotile):

NA

Level of analysis (amphibole):

NA

0

Magnification used for structure counting:

Aspect ratio for fibre definition:

3:1

Mean dimension of grid openings:

0.00878032

Initials of analyst:

JM

Number of grid openings examined:

35

Analytical sensitivity:

Number of primary asbestos structures:

47

Number of asbestos structures counted:

47

Number of asbestos structures >5 µm:

13

Number of fibres and bundles > 5 µm:

13

Number of PCM equivalent asbestos structures:

12

Number of PCM equivalent asbestos fibres:

12

TEM asbestos structure count					
Report Number:	LLH901997-22				
Sample Number:	3158823.HTA2		Sample Weight:	0.0002	
Sample Description:	1 - RH #1		Filter area (mm ²):	1220	
			Magnification:	10/20 KX	
			Grid opening dimension (mm ²)	0.00878032	
Preparation date:	06/5/20	By:	Mk		
Analysis date:	07/7/20	By:	JM	Level of analysis (chrysotile)	NA
Computer entry date:	08/9/20	By:	MMK	Level of analysis (amphibole)	NA

Grid	Grid Opening	Structures		Identification	Structure type	Length (µm)	Width (µm)	Fibre Type	Comments
		primary	total						
1	H2	1	1	AZQ	F	4.17	0.8	Actinolite	
		2	2	ADX	F	2.24	0.48	Actinolite	
				NAM		3.5	1.1		
		3	3	ADX	F	1.8	0.56	Actinolite	
	H4	4	4	AZQ	F	3.08	0.15	Actinolite	
		5	5	ADX	F	1.12	0.12	Actinolite	
		6	6	ADX	F	1.18	0.24	Actinolite	
				NAM		4.48	0.84		
		7	7	ADX	F	2.28	0.3	Actinolite	
		8	8	ADX	F	2.52	0.21	Actinolite	
	H6	9	9	ADX	F	7.28	1.24	Actinolite	
		10	10	ADX	F	1.39	0.18	Actinolite	
		11	11	ADX	F	1.86	0.3	Actinolite	
		12	12	ADX	B	4.48	0.84	Actinolite	
				NAM		4.17	0.8		
		13	13	ADX	F	1.2	0.35	Actinolite	
		14	14	ADX	F	2.8	0.9	Actinolite	
	H8	15	15	ADX	F	2.1	0.42	Actinolite	
		16	16	ADX	F	2.1	0.36	Actinolite	
		17	17	ADX	F	3.08	0.36	Actinolite	
	H10	18	18	ADX	F	2.24	0.3	Actinolite	
		19	19	ADX	F	4.48	0.68	Actinolite	
		20	20	ADX	F	0.8	0.12	Actinolite	
	B1			No Fibres					
	B3			No Fibres					
	B5			No Fibres					
	B7			No Fibres					
	B9			No Fibres					
	D10			No Fibres					
	D7			No Fibres					
	D4			No Fibres					
2	D2	21	21	AZQ	F	7.65	0.72	Actinolite	
	F1			No Fibres					
	F4	22	22	ADX	F	6.72	0.99	Actinolite	
	F10	23	23	ADX	F	17.1	2.25	Actinolite	
	A1			No Fibres					
	A3	24	24	ADX	F	6.74	0.9	Actinolite	
	A5			No Fibres					
	A7			No Fibres					
	A9			No Fibres					
	C9			No Fibres					
	C6			No Fibres					

TEM asbestos structure count					
Report Number:	LLH901997-22				
Sample Number:	3158823.HTA2		Sample Weight:	0.0002	
Sample Description:	1 - RH #1		Filter area (mm ²):	1220	
			Magnification:	10/20 KX	
			Grid opening dimension (mm ²)	0.00878032	
Preparation date:	06/5/20	By:	Mk		
Analysis date:	07/7/20	By:	JM	Level of analysis (chrysotile)	NA
Computer entry date:	08/9/20	By:	MMK	Level of analysis (amphibole)	NA

Grid	Grid Opening	Structures		Identification	Structure type	Length (µm)	Width (µm)	Fibre Type	Comments
		primary	total						
	C4			No Fibres					
	C2	25	25	ADX	F	6.54	0.54	Actinolite	
	F1	26	26	ADX	F	5.18	0.9	Actinolite	
	F3	27	27	ADX	F	5.85	1.08	Actinolite	
	E7			No Fibres					
	E9	28	28	ADX	B	5.58	0.18	Actinolite	
	H10	29	29	ADX	F	1.68	0.24	Actinolite	
		30	30	ADX	F	1.26	0.18	Actinolite	
		31	31	ADX	F	3.08	0.48	Actinolite	
	H3	32	32	AZQ	F	3.36	0.54	Actinolite	
		33	33	ADX	B	1.82	0.18	Actinolite	
		34	34	ADX	F	2.1	0.36	Actinolite	
		35	35	ADX	F	1.39	0.18	Actinolite	
		36	36	ADX	F	7.2	2.25	Actinolite	
	H8	37	37	ADX	F	1.12	0.12	Actinolite	
		38	38	ADX	F	5.56	0.8	Actinolite	
		39	39	ADX	F	6.16	0.24	Actinolite	
		40	40	ADX	F	3.54	0.36	Actinolite	
		41	41	AZQ	F	6.16	0.54	Actinolite	
	H7	42	42	ADX	F	1.51	0.24	Actinolite	
		43	43	ADX	F	2.66	0.48	Actinolite	
		44	44	ADX	F	2.78	0.54	Actinolite	
		45	45	ADX	F	1.96	0.12	Actinolite	
	G10	46	46	ADX	F	1.26	0.24	Actinolite	
		47	47	ADX	B	3.08	0.24	Actinolite	

Final Laboratory Report

TEM Bulk Protocol

Attention: David Raphael
K & L Gates
17 North Second Street
Harrisburg, PA 17101
US

Report Date: 08/12/2020
Sample Receipt Date:
RJ Lee Group Job No.: LLH901997-22
Authorization/P.O. No.:
Samples Received: 1
Client Job No.:

Method: EPA/R-93/600/116

TABLE 1 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos

Client Sample Number	RJLG Sample Number	Total Structures				-----Weight Percent----- Total Structures Analytical Sensitivity			
		Chry	Amph	Cleavage	Non Asbestos	Chry	Amph Asb	Amph Cleavage Fragment	Non Asbestos
2 - RH #2	3158824	0	2	105	0	< 5.0E-6 5.0E-6	6.7E-3 6.2E-6	1.2E0 4.0E-6	< 3.7E-6 3.7E-6

NOTES

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- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2×10^{-3} ng/ μ m³, density of chrysotile: 2.55×10^{-3} ng/ μ m³, density of non-asbestos: 3.00×10^{-3} ng/ μ m³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
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RJ Lee Group Job No: LLH901997-22
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/12/2020

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos 5 μm

Client Sample Number	RJLG Sample Number	-----Structures 5 μm-----				-----Weight Percent----- Structures 5 μm Analytical Sensitivity			
		Chry	Amph	Cleavage	Non-Asbestos	Amphibole			
						Chry	Asb	Cleavage Fragment	Non-Asbestos
2 - RH #2	3158824	0	2	21	0	<u>< 5.0E-5</u> 5.0E-5	<u>6.7E-3</u> 6.2E-5	<u>9.7E-1</u> 4.0E-5	<u>< 3.7E-5</u> 3.7E-5

NOTES

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- Density of amphibole: 3.2 * 10⁻³ ng/ μ m³, density of chrysotile: 2.55 * 10⁻³ ng/ μ m³, density of non-asbestos: 3.00 * 10⁻³ ng/ μ m³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
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RJ Lee Group, Inc.

RJ Lee Group Job No: LLH901997-22
Client Job No/Name:

Final Laboratory Report (cont'd)

Client: K & L Gates
Report Date: 08/12/2020

Client Sample Number	RJLG Sample Number	Material Used (gm)	Area Analyzed Total (mm ²)	Area Analyzed 5 μm (mm ²)	Effective Filter Area (mm ²)	Dilution Factor
2 - RH #2	3158824	0.0002	0.30731	0.30731	1220	1.0

Authorized Signature: 
Ashleigh Sload, Scientist

NOTES

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- Density of amphibole: 3.2×10^{-3} ng/μm³, density of chrysotile: 2.55×10^{-3} ng/μm³, density of non-asbestos: 3.00×10^{-3} ng/μm³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
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RJL: LLH901997-22	3158824.HTA2	Microscope tem2000fx1	Grid Openings	10
2 - RH #2	K & L Gates	Magnification 21 KX	Asbestos	1.0
Wt: 0.0002 gm	Grid: 0.0088 mm ²	Acc. Voltage 120 KV	Asbestos >= 5µm	1.0
Dil: 1.	Filter Size: 47 mm	Operator: Jacquelyn Mershon	Nonasbestos	92.0
HQ45440		Cv = 0.09	Nonasbestos >= 5µm % Wt of largest asbestos structure	8.0 %

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1	1	1.33	0.3	Amphibole		MgSiCaFeAl	6565C	Image1	Diff1	Acti	Cle
1	2	2.34	0.23	Amphibole		MgSiCaFe			X	Acti	Cle
1	3	1.04	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
1	4	1.38	0.25	Amphibole		MgSiCaFe			X	Acti	Cle
1	5	1.61	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
1	6	3.44	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
1	7	2.53	0.18	Amphibole		MgSiCaFe			X	Acti	Cle
1	8	1.04	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
1	9	1.7	0.45	Amphibole		MgSiCaFe			X	Acti	Cle
2	1	1.15	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
2	2	1.42	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
2	3	1.73	0.18	Amphibole		MgSiCaFe			X	Acti	Cle
2	4	1.04	0.15	Amphibole		MgSiCaFe			X	Acti	Cle
2	5	1.61	0.1	Amphibole		MgSiCaFe			X	Acti	Cle
2	6	2.07	0.1	Amphibole		MgSiCaFe	16566C	Image2	Diff2	Acti	Cle
2	7	2.24	0.25	Amphibole		MgSiCaFe			X	Acti	Cle
2	8	1.96	0.25	Amphibole		MgSiCaFe			X	Acti	Cle
2	9	1.61	0.25	Amphibole		MgSiCaFe			X	Acti	Cle
2	10	1.61	0.1	Amphibole		MgSiCaFe			X	Acti	Cle
3	1	5.16	0.51	Amphibole		MgSiCaFeAl	6567C	Image3	Diff4	Acti	Cle
3	2	1.38	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
3	3	1.84	0.1	Amphibole		MgSiCaFe			X	Acti	Cle
3	4	5.29	0.3	Amphibole		MgSiCaFe		Image4	X	Acti	Cle
3	5	7.82	0.77	Amphibole		MgSiCaFe			X	Acti	Cle
3	6	4.58	0.87	Amphibole		MgSiCaFe			X	Acti	Cle
3	7	1.73	0.25	Amphibole		MgSiCaFe			X	Acti	Cle
3	8	4.37	0.25	Amphibole		MgSiCaFe		Image5	X	Acti	Cle
3	9	1.15	0.15	Amphibole		MgSiCaFe			X	Acti	Cle
3	10	4.58	0.46	Amphibole		MgSiCaFe			X	Acti	Cle
3	11	1.15	0.15	Amphibole		MgSiCaFe			X	Acti	Cle
3	12	1.04	0.1	Amphibole		MgSiCaFe			X	Acti	Cle
3	13	2.76	0.35	Amphibole		MgSiCaFeAl	6568C	Image6	Diff5	Acti	Cle
3	14	1.4	0.45	Amphibole		MgSiCaFe			X	Acti	Cle
4	1	1.84	0.28	Amphibole		MgSiCaFe			X	Acti	Cle
4	2	2.76	0.23	Amphibole		MgSiCaFe			X	Acti	Cle
4	3	5.98	0.56	Amphibole		MgSiCaFe			X	Acti	Cle
4	4	3.91	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
4	5	2.29	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
4	6	1.15	0.15	Amphibole		MgSiCaFe			X	Acti	Cle
4	7	1.38	0.15	Amphibole		MgSiCaFe			X	Acti	Cle
4	8	2.29	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
4	9	1.84	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
5	1	2.19	0.3	Amphibole		MgSiCaFeAl	6569C	Image7	Diff6	Acti	Cle
5	2	1.84	0.15	Amphibole		MgSiCaFe			X	Acti	Cle

RJL: LLH901997-22	3158824.HTA2	Microscope tem2000fx1	Grid Openings	10
2 - RH #2	K & L Gates	Magnification 21 KX	Asbestos	1.0
Wt: 0.0002 gm	Grid: 0.0088 mm ²	Acc. Voltage 120 KV	Asbestos >= 5µm	1.0
Dil: 1.	Filter Size: 47 mm	Operator: Jacquelyn Mershon	Nonasbestos	92.0
HQ45440		Cv = 0.09	Nonasbestos >= 5µm % Wt of largest asbestos structure	8.0 %

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
5	3	1.84	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
5	4	2.76	0.25	Amphibole		MgSiCaFe			X	Acti	Cle
5	5	2.53	0.35	Amphibole		MgSiCaFe			X	Acti	Cle
5	6	4.58	0.61	Amphibole		MgSiCaFe			X	Acti	Cle
5	7	2.23	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
5	8	8.74	0.92	Amphibole		MgSiCaFe			X	Acti	Cle
5	9	1.61	0.25	Amphibole		MgSiCaFe			X	Acti	Cle
6	1	5.87	0.2	Amphibole	F	MgSiCaFe			X	Acti	Asb
6	2	1.15	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
6	3	2.53	0.25	Amphibole		MgSiCaFe			X	Acti	Cle
6	4	1.38	0.13	Amphibole		MgSiCaFe			X	Acti	Cle
6	5	1.53	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
6	6	2.14	0.25	Amphibole		MgSiCaFe			X	Acti	Cle
6	7	1.28	0.25	Amphibole		MgSiCaFe	All6570C	Image8	Diff7	Acti	Cle
6	8	1.84	0.15	Amphibole		MgSiCaFe			X	Acti	Cle
6	9	1.38	0.15	Amphibole		MgSiCaFe			X	Acti	Cle
7	1	1.15	0.15	Amphibole		MgSiCaFe			X	Acti	Cle
7	2	2.14	0.35	Amphibole		MgSiCaFe			X	Acti	Cle
7	3	1.61	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
7	4	1.53	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
7	5	6.18	0.46	Amphibole		MgSiCaFe			X	Acti	Cle
7	6	2.35	0.25	Amphibole		MgSiCaFe	All6571C	Image9	Diff9	Acti	Cle
8	1	1.38	0.23	Amphibole		MgSiCaFe			X	Acti	Cle
8	2	2.07	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
8	3	1.26	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
8	4	2.29	0.25	Amphibole		MgSiCaFe			X	Acti	Cle
8	5	1.84	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
8	6	1.61	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
8	7	2.29	0.23	Amphibole		MgSiCaFe	All6572C	Image10	Diff10 Diff11	Acti	Cle
9	1	8.97	1.38	Amphibole		MgSiCaFe			X	Acti	Cle
9	2	2.29	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
9	3	1.15	0.1	Amphibole		MgSiCaFe			X	Acti	Cle
9	4	1.38	0.18	Amphibole		MgSiCaFe			X	Acti	Cle
9	5	1.38	0.25	Amphibole		MgSiCaFe			X	Acti	Cle
9	6	1.38	0.15	Amphibole		MgSiCaFe			X	Acti	Cle
9	7	1.61	0.15	Amphibole		MgSiCaFe			X	Acti	Cle
9	8	2.35	0.25	Amphibole		MgSiCaFe			X	Acti	Cle
9	9	1.4	0.4	Amphibole		MgSiCaFe			X	Acti	Cle
10	1	1.84	0.15	Amphibole		MgSiCaFe			X	Acti	Cle
10	2	1.84	0.25	Amphibole		MgSiCaFe			X	Acti	Cle
10	3	2.44	0.2	Amphibole		MgSiCaFe	All6573C	Image11	Diff12	Acti	Cle
10	4	1.61	0.25	Amphibole		MgSiCaFe			X	Acti	Cle
10	5	5.98	1.15	Amphibole		MgSiCaFe			X	Acti	Cle
10	6	3.34	0.2	Amphibole		MgSiCaFe		Image12	X	Acti	Cle

RJL: LLH901997-22	3158824.HTA2	Microscope tem2000fx1	Grid Openings	10
2 - RH #2	K & L Gates	Magnification 21 KX	Asbestos	1.0
Wt: 0.0002 gm	Grid: 0.0088 mm ²	Acc. Voltage 120 KV	Asbestos >= 5µm	1.0
Dil: 1.	Filter Size: 47 mm	Operator: Jacquelyn Mershon	Nonasbestos	92.0
HQ45440		Cv = 0.09	Nonasbestos >= 5µm structure	8.0
			% Wt of largest asbestos	%

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
10	7	2.35	0.3	Amphibole		MgSiCaFe		X	Acti		Cle
10	8	1.61	0.25	Amphibole		MgSiCaFe		X	Acti		Cle
10	9	2.76	0.3	Amphibole		MgSiCaFe		X	Acti		Cle
10	10	1.38	0.15	Amphibole		MgSiCaFe		X	Acti		Cle
10	11	3.68	0.51	Amphibole		MgSiCaFe		X	Acti		Cle

10% Particulate

Analyst's Comments: N/A

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 7/29/2020 10:14:02 AM approve by Jacquelyn Mershon

Final Review: 8/12/20 12:27 PM approve by Bryan Bandli

RJ Lee Group, Inc.
TEM Count Sheet

RJL: LLH901997-22	3158824.HTA2	Microscope tem2000fx1	Grid Openings	25
2 - RH #2	K & L Gates	Magnification 10 KX	Asbestos	1.0
Wt: 0.0002 gm	Grid: 0.0088 mm ²	Acc. Voltage 120 KV	Nonasbestos	13.0
Dil: 1.	Filter Size: 47 mm	Operator: Jacquelyn Mershon	% Wt of largest asbestos	%
HQ45440		Cv = 0.038	structure	

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1	1	15.72	0.54	Amphibole		MgSiCaFeAl	6574C	Image1	Diff1	Acti	Cle
2				NSD							
3				NSD							
4				NSD							
5				NSD							
6				NSD							
7				NSD							
8				NSD							
9	1	13.47	2.48	Amphibole		MgSiCaFe			X	Acti	Cle
9	2	6.03	0.45	Amphibole		MgSiCaFe			X	Acti	Cle
10	1	6.74	0.32	Amphibole		MgSiCaFe			X	Acti	Cle
11				NSD							
12	1	5.4	0.45	Amphibole		MgSiCaFe			X	Acti	Cle
12	2	7.47	0.23	Amphibole	F	MgSiCaFe			X	Acti	Asb
13				NSD							
14	1	5.4	0.72	Amphibole		MgSiCaFe			X	Acti	Cle
14	2	5.4	0.72	Amphibole		MgSiCaFe			X	Acti	Cle
15	1	7.38	1.08	Amphibole		MgSiCaFe			X	Acti	Cle
16				NSD							
17	1	5.4	0.72	Amphibole		MgSiCaFe			X	Acti	Cle
18				NSD							
19	1	7.2	0.36	Amphibole		MgSiCaFeAl	6575C	Image2	Diff2	Acti	Cle
20	1	5.85	0.9	Amphibole		MgSiCaFe			X	Acti	Cle
21				NSD							
22				NSD							
23	1	6.74	1.08	Amphibole		MgSiCaFe			X	Acti	Cle
24	1	5.4	0.45	Amphibole		MgSiCaFe			X	Acti	Cle
25				NSD							

10% Particulate

Analyst's Comments: N/A

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 7/29/2020 11:02:37 AM approve by Jacquelyn Mershon

Final Review: 8/12/20 12:27 PM approve by Bryan Bandli

Final Laboratory Report

TEM Bulk Protocol

Attention: David Raphael
K & L Gates
17 North Second Street
Harrisburg, PA 17101
US

Report Date: 08/12/2020
Sample Receipt Date:
RJ Lee Group Job No.: LLH901997-22
Authorization/P.O. No.:
Samples Received: 1
Client Job No.:

Method: ISO 22262-2

TABLE 1 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos

Client Sample Number	RJLG Sample Number	<u>Total Structures</u>				-----Weight Percent----- <u>Total Structures</u> Analytical Sensitivity			
		Chry	Amph	Cleavage	Non Asbestos	Chry	Amph Asb	Amph Cleavage Fragment	Non Asbestos
2 - RH #2	3158824	0	2	105	0	< 5.0E-6 5.0E-6	4.2E-3 4.0E-6	1.2E0 4.0E-6	< 3.7E-6 3.7E-6

NOTES

1. "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
2. Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
3. If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
4. Density of amphibole: 3.2×10^{-3} ng/ μ m³, density of chrysotile: 2.55×10^{-3} ng/ μ m³, density of non-asbestos: 3.00×10^{-3} ng/ μ m³.
5. Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
6. Samples will be held for 90 days and then disposed of per Federal regulations.
7. These results are submitted pursuant to RJ Lee Group'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 these results are used or interpreted.

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These results are submitted pursuant to RJ Lee Group's current terms and conditions of sale, including the company's standard warranty and limiting provisions and 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, RJ Lee Group will store the samples for a period of ninety (90) days before discarding. A shipping and handling fee will be assessed for the return of any sample.

RJ Lee Group Job No: LLH901997-22
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/12/2020

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos 5 μm

Client Sample Number	RJLG Sample Number	-----Structures 5 μm-----				-----Weight Percent----- Structures 5 μm Analytical Sensitivity			
		Chry	Amph	Cleavage	Non-Asbestos	Amphibole			
						Chry	Asb	Cleavage Fragment	Non-Asbestos
2 - RH #2	3158824	0	2	21	0	<u>< 5.0E-5</u> 5.0E-5	<u>4.2E-3</u> 4.0E-5	<u>9.7E-1</u> 4.0E-5	<u>< 3.7E-5</u> 3.7E-5

NOTES

- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2×10^{-3} ng/μm³, density of chrysotile: 2.55×10^{-3} ng/μm³, density of non-asbestos: 3.00×10^{-3} ng/μm³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
- These results are submitted pursuant to RJ Lee Group'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 these results are used or interpreted.

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RJ Lee Group, Inc.

RJ Lee Group Job No: LLH901997-22
Client Job No/Name:

Final Laboratory Report (cont'd)

Client: K & L Gates
Report Date: 08/12/2020

Client Sample Number	RJLG Sample Number	Material Used (gm)	Area Analyzed Total (mm ²)	Area Analyzed 5 μm (mm ²)	Effective Filter Area (mm ²)	Dilution Factor
2 - RH #2	3158824	0.0002	0.30731	0.30731	1220	1.0

Authorized Signature: 
Ashleigh Sload, Scientist

NOTES

- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2×10^{-3} ng/μm³, density of chrysotile: 2.55×10^{-3} ng/μm³, density of non-asbestos: 3.00×10^{-3} ng/μm³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
- These results are submitted pursuant to RJ Lee Group'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 these results are used or interpreted.

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RJ Lee Group, Inc
LLH901997-22
3158824.HTA2

K & L Gates
2 - RH #2

29-Jul-20

Air volume:

Area of collection filter:

Volume flowrate:

Level of analysis (chrysotile):

NA

Level of analysis (amphibole):

NA

0

Magnification used for structure counting:

Aspect ratio for fibre definition:

3:1

Mean dimension of grid openings:

0.00878032

Initials of analyst:

JM

Number of grid openings examined:

35

Analytical sensitivity:

Number of primary asbestos structures:

106

Number of asbestos structures counted:

106

Number of asbestos structures >5 µm:

23

Number of fibres and bundles > 5 µm:

22

Number of PCM equivalent asbestos structures:

22

Number of PCM equivalent asbestos fibres:

21

TEM asbestos structure count					
Report Number:	LLH901997-22				
Sample Number:	3158824.HTA2		Sample Weight:	0.0002	
Sample Description:	2 - RH #2		Filter area (mm2):	1220	
			Magnification:	10/20 KX	
			Grid opening dimension (mm2)	0.00878032	
Preparation date:	06/5/20	By:	Mk		
Analysis date:	07/29/20	By:	JM	Level of analysis (chrysotile)	NA
Computer entry date:	08/9/20	By:	MMK	Level of analysis (amphibole)	NA

Grid	Grid Opening	Structures		Identification	Structure type	Length (µm)	Width (µm)	Fibre Type	Comments
		primary	total						
1	H1	1	1	AZQ	F	1.33	0.3	Actinolite	
		2	2	ADX	F	2.34	0.23	Actinolite	
		3	3	ADX	F	1.04	0.2	Actinolite	
		4	4	ADX	F	1.38	0.25	Actinolite	
		5	5	ADX	F	1.61	0.2	Actinolite	
		6	6	ADX	F	3.44	0.3	Actinolite	
		7	7	ADX	F	2.53	0.18	Actinolite	
		8	8	ADX	F	1.04	0.2	Actinolite	
		9	9	ADX	F	1.7	0.45	Actinolite	
	I4			ADX		1.15	0.2	Actinolite	Not tabulated; touches top grid bar
		10	10	ADX	F	1.42	0.2	Actinolite	
		11	11	ADX	F	1.73	0.18	Actinolite	
		12	12	ADX	F	1.04	0.15	Actinolite	
		13	13	ADX	F	1.61	0.1	Actinolite	
		14	14	AZQ	F	2.07	0.1	Actinolite	
		15	15	ADX	F	2.24	0.25	Actinolite	
		16	16	ADX	F	1.96	0.25	Actinolite	
		17	17	ADX	F	1.61	0.25	Actinolite	
		18	18	ADX	F	1.61	0.1	Actinolite	
	I6	19	19	AZQ	F	5.16	0.51	Actinolite	
		20	20	ADX	F	1.38	0.2	Actinolite	
		21	21	ADX	F	1.84	0.1	Actinolite	
		22		ADX	MD11	7	1	Actinolite	
		22		ADX	MF	5.29	0.3	Actinolite	
		23	23	ADX	F	7.82	0.77	Actinolite	
		24	24	ADX	F	4.58	0.87	Actinolite	
		25	25	ADX	F	1.73	0.25	Actinolite	
		26	26	ADX	F	4.37	0.25	Actinolite	
		27	27	ADX	F	1.15	0.15	Actinolite	
		28	28	ADX	F	4.58	0.46	Actinolite	
		29	29	ADX	F	1.15	0.15	Actinolite	
		30	30	ADX	F	1.04	0.1	Actinolite	
		31	31	AZQ	F	2.76	0.35	Actinolite	
		32	32	ADX	F	1.4	0.45	Actinolite	
	I8	33	33	ADX	F	1.84	0.28	Actinolite	
		34	34	ADX	F	2.76	0.23	Actinolite	
		35	35	ADX	F	5.98	0.56	Actinolite	
		36	36	ADX	F	3.91	0.3	Actinolite	
		37	37	ADX	F	2.29	0.3	Actinolite	

TEM asbestos structure count					
Report Number:	LLH901997-22				
Sample Number:	3158824.HTA2		Sample Weight:	0.0002	
Sample Description:	2 - RH #2		Filter area (mm ²):	1220	
			Magnification:	10/20 KX	
			Grid opening dimension (mm ²)	0.00878032	
Preparation date:	06/5/20	By:	Mk		
Analysis date:	07/29/20	By:	JM	Level of analysis (chrysotile)	NA
Computer entry date:	08/9/20	By:	MMK	Level of analysis (amphibole)	NA

Grid	Grid Opening	Structures		Identification	Structure type	Length (µm)	Width (µm)	Fibre Type	Comments
		primary	total						
		38	38	ADX	F	1.15	0.15	Actinolite	
		39	39	ADX	F	1.38	0.15	Actinolite	
		40	40	ADX	F	2.29	0.3	Actinolite	
		41	41	ADX	F	1.84	0.3	Actinolite	
	I10	42	42	AZQ	F	2.19	0.3	Actinolite	
		43	43	ADX	F	1.84	0.15	Actinolite	
		44	44	ADX	F	1.84	0.2	Actinolite	
		45	45	ADX	F	2.76	0.25	Actinolite	
		46	46	ADX	F	2.53	0.35	Actinolite	
		47	47	ADX	F	4.58	0.61	Actinolite	
		48	48	ADX	F	2.23	0.3	Actinolite	
		49	49	ADX	F	8.74	0.92	Actinolite	
		50	50	ADX	F	1.61	0.25	Actinolite	
	B1	51	51	AZQ	F	15.72	0.54	Actinolite	
	B3			No Fibres					
	B5			No Fibres					
	B7			No Fibres					
	D10			No Fibres					
	D8			No Fibres					
	D6			No Fibres					
	D4			No Fibres					
	D2	52	52	ADX	F	13.74	2.48	Actinolite	
		53	53	ADX	F	6.03	0.45	Actinolite	
	F1	54	54	ADX	F	6.74	0.32	Actinolite	
	F3			No Fibres					
	F8	55	55	ADX	F	5.4	0.45	Actinolite	
	2	56	56	ADX	F	7.47	0.23	Actinolite	
	F10			No Fibres					
	A6	57	57	ADX	F	5.4	0.72	Actinolite	
		58	58	ADX	F	5.4	0.72	Actinolite	
	A8	59	59	ADX	F	7.38	1.08	Actinolite	
	A10			No Fibres					
	C9	60	60	ADX	F	5.4	0.72	Actinolite	
	C5			No Fibres					
	C1	61	61	AZQ	F	7.2	0.36	Actinolite	
	E2	62	62	ADX	F	5.85	0.9	Actinolite	
	E4			No Fibres					
	E8			No Fibres					
	G9	63	63	ADX	F	6.74	1.08	Actinolite	
	G7	64	64	ADX	F	5.4	0.45	Actinolite	
	G5			No Fibres					
	I2	65	65	ADX	F	5.87	0.2	Actinolite	

TEM asbestos structure count					
Report Number:	LLH901997-22				
Sample Number:	3158824.HTA2		Sample Weight:	0.0002	
Sample Description:	2 - RH #2		Filter area (mm2):	1220	
			Magnification:	10/20 KX	
			Grid opening dimension (mm2)	0.00878032	
Preparation date:	06/5/20	By:	Mk		
Analysis date:	07/29/20	By:	JM	Level of analysis (chrysotile)	NA
Computer entry date:	08/9/20	By:	MMK	Level of analysis (amphibole)	NA

Grid	Grid Opening	Structures		Identification	Structure type	Length (µm)	Width (µm)	Fibre Type	Comments
		primary	total						
		66	66	ADX	F	1.15	0.2	Actinolite	
		67	67	ADX	F	2.53	0.25	Actinolite	
		68	68	ADX	F	1.38	0.13	Actinolite	
		69	69	ADX	F	1.53	0.2	Actinolite	
		70	70	ADX	F	2.14	0.25	Actinolite	
		71	71	AZQ	F	1.28	0.25	Actinolite	
		72	72	ADX	F	1.84	0.15	Actinolite	
		73	73	ADX	F	1.38	0.15	Actinolite	
	I4	74	74	ADX	F	1.15	0.15	Actinolite	
		75	75	ADX	F	2.14	0.35	Actinolite	
		76	76	ADX	F	1.61	0.2	Actinolite	
		77	77	ADX	F	1.53	0.2	Actinolite	
		78	78	ADX	F	6.18	0.46	Actinolite	
		79	79	AZQ	F	2.35	0.25	Actinolite	
	I6	80	80	ADX	F	1.38	0.23	Actinolite	
		81	81	ADX	F	2.07	0.3	Actinolite	
		82	82	ADX	F	1.26	0.2	Actinolite	
		83	83	ADX	F	2.29	0.25	Actinolite	
		84	84	ADX	F	1.84	0.3	Actinolite	
		85	85	ADX	F	1.61	0.2	Actinolite	
		86	86	AZZQ	F	2.29	0.23	Actinolite	
	I8	87	87	ADX	F	8.97	1.38	Actinolite	
		88	88	ADX	F	2.29	0.3	Actinolite	
		89	89	ADX	F	1.15	0.1	Actinolite	
		90	90	ADX	F	1.38	0.18	Actinolite	
		91	91	ADX	F	1.38	0.25	Actinolite	
		92	92	ADX	F	1.38	0.15	Actinolite	
		93	93	ADX	F	1.61	0.15	Actinolite	
		94	94	ADX	F	2.35	0.25	Actinolite	
		95	95	ADX	F	1.4	0.4	Actinolite	
	I10	96	96	ADX	F	1.84	0.15	Actinolite	
		97	97	ADX	F	1.84	0.25	Actinolite	
		98	98	AZQ	F	2.44	0.2	Actinolite	
		99	99	ADX	F	1.61	0.25	Actinolite	
		100	100	ADX	F	5.98	1.15	Actinolite	
		101	101	ADX	F	3.34	0.2	Actinolite	
		102	102	ADX	F	2.35	0.3	Actinolite	
		103	103	ADX	F	1.61	0.25	Actinolite	
		104	104	ADX	F	2.76	0.3	Actinolite	
		105	105	ADX	F	1.38	0.15	Actinolite	
		106	106	ADX	F	3.68	0.51	Actinolite	

Final Laboratory Report

TEM Bulk Protocol

Attention: David Raphael
K & L Gates
17 North Second Street
Harrisburg, PA 17101
US

Report Date: 08/03/2020
Sample Receipt Date:
RJ Lee Group Job No.: LLH901997-22
Authorization/P.O. No.:
Samples Received: 1
Client Job No.:

Method: EPA/R-93/600/116

TABLE 1 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos

Client Sample Number	RJLG Sample Number	<u>Total Structures</u>				-----Weight Percent----- <u>Total Structures</u> Analytical Sensitivity			
		Chry	Amph	Cleavage	Non Asbestos	Chry	Amph Asb	Amph Cleavage Fragment	Non Asbestos
3 - RH #3	3158825	0	1	49	0	< 3.3E-6 3.3E-6	1.4E-3 4.2E-6	2.5E-1 2.6E-6	< 2.5E-6 2.5E-6

NOTES

1. "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
2. Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
3. If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
4. Density of amphibole: 3.2×10^{-3} ng/ μ m³, density of chrysotile: 2.55×10^{-3} ng/ μ m³, density of non-asbestos: 3.00×10^{-3} ng/ μ m³.
5. Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
6. Samples will be held for 90 days and then disposed of per Federal regulations.
7. These results are submitted pursuant to RJ Lee Group'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 these results are used or interpreted.

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RJ Lee Group Job No: LLH901997-22
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/03/2020

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos 5 μm

Client Sample Number	RJLG Sample Number	-----Structures 5 μm-----				-----Weight Percent----- Structures 5 μm Analytical Sensitivity			
		Chry	Amph	Cleavage	Non-Asbestos	Chry	Asb	Cleavage Fragment	Non-Asbestos
3 - RH #3	3158825	0	1	6	0	<u>< 3.3E-5</u> 3.3E-5	<u>1.4E-3</u> 4.2E-5	<u>1.8E-1</u> 2.6E-5	<u>< 2.5E-5</u> 2.5E-5

NOTES

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- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2 * 10⁻³ ng/ μ m³, density of chrysotile: 2.55 * 10⁻³ ng/ μ m³, density of non-asbestos: 3.00 * 10⁻³ ng/ μ m³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
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RJ Lee Group, Inc.

RJ Lee Group Job No: LLH901997-22
Client Job No/Name:

Final Laboratory Report (cont'd)

Client: K & L Gates
Report Date: 08/03/2020

Client Sample Number	RJLG Sample Number	Material Used (gm)	Area Analyzed Total (mm ²)	Area Analyzed 5 μm (mm ²)	Effective Filter Area (mm ²)	Dilution Factor
3 - RH #3	3158825	0.0003	0.30731	0.30731	1220	1.0

Authorized Signature: 
Ashleigh Sload, Scientist

NOTES

- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2×10^{-3} ng/μm³, density of chrysotile: 2.55×10^{-3} ng/μm³, density of non-asbestos: 3.00×10^{-3} ng/μm³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
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RJL: LLH901997-22	3158825.HTA2	Microscope tem2000fx2	Grid Openings	10
3 - RH #3	K & L Gates	Magnification 21 KX	Asbestos	0.0
Wt: 0.0003 gm	Grid: 0.0088 mm ²	Acc. Voltage 120 KV	Asbestos >= 5µm	0.0
Dil: 1.	Filter Size: 47 mm	Operator: Jon Swope	Nonasbestos	46.0
HQ45440		Cv = 0	Nonasbestos >= 5µm	3.0
			% Wt of largest asbestos structure	%

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1	1	1.95	0.3	Amphibole		MgSiCaFe	15740D	Image1	Diff1	Acti	Cle
1	2	1.2	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
1	3	1.3	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
1	4	2.9	0.4	Amphibole		MgSiCaFe			X	Acti	Cle
1	5	1.1	0.15	Amphibole		MgSiCaFe			X	Acti	Cle
2	1	1.2	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
2	2	5.8	1.1	Amphibole		MgSiCaFe			X	Acti	Cle
2	3	2.3	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
2	4	3.4	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
2	5	2.1	0.4	Amphibole		MgSiCaFe			X	Acti	Cle
3	1	2.1	0.4	Amphibole		MgSiCaFe	15741D	Image2	Diff2	Acti	Cle
3	2	1.2	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
3	3	3.6	0.5	Amphibole		MgSiCaFe			X	Acti	Cle
3	4	1.4	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
3	5	0.9	0.18	Amphibole		MgSiCaFe			X	Acti	Cle
3	6	1.9	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
3	7	1.5	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
3	8	1.8	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
4	1	1.3	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
4	2	1.25	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
4	3	1.2	0.2	Amphibole		MgSiCaFe	15742D	Image3	Diff3	Acti	Cle
4	4	3.4	0.4	Amphibole		MgSiCaFe			X	Acti	Cle
4	5	4.8	0.6	Amphibole		MgSiCaFe			X	Acti	Cle
4	6	1.3	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
4	7	8.7	1.1	Amphibole		MgSiCaFe			X	Acti	Cle
5	1	2.4	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
5	2	3.2	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
5	3	1.3	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
5	4	2.4	0.4	Amphibole		MgSiCaFe			X	Acti	Cle
5	5	1.5	0.22	Amphibole		MgSiCaFe			X	Acti	Cle
6	1	5.8	0.5	Amphibole		MgSiCaFe	15746D	Image4	Diff4	Acti	Cle
6	2	1.2	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
6	3	1.7	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
6	4	3.5	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
7	1	1.7	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
7	2	2.6	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
7	3	1.4	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
7	4	1.6	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
8	1	1.55	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
8	2	3.2	0.4	Amphibole		MgSiCaFe			X	Acti	Cle
9	1	1.1	0.2	Amphibole		MgSiCaFe	15747D	Image5	Diff5	Acti	Cle
9	2	3.1	0.5	Amphibole		MgSiCaFe			X	Acti	Cle
10	1	1.2	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
10	2	2.5	0.3	Amphibole		MgSiCaFe			X	Acti	Cle

RJL: LLH901997-22	3158825.HTA2	Microscope tem2000fx2	Grid Openings	10
3 - RH #3	K & L Gates	Magnification 21 KX	Asbestos	0.0
Wt: 0.0003 gm	Grid: 0.0088 mm ²	Acc. Voltage 120 KV	Asbestos >= 5µm	0.0
Dil: 1.	Filter Size: 47 mm	Operator: Jon Swope	Nonasbestos	46.0
HQ45440		Cv = 0	Nonasbestos >= 5µm	3.0
			% Wt of largest asbestos structure	%

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
10	3	1.6	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
10	4	1.3	0.2	Amphibole		MgSiCaFe			X	Acti	Cle

12% Particulate

Analyst's Comments: N/A

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 7/29/2020 9:21:37 AM approve by Jon Swope

Final Review: 8/3/20 1:37 PM approve by Ashleigh Sload

RJL: LLH901997-22	3158825.HTA2	Microscope tem2000fx2	Grid Openings	25
3 - RH #3	K & L Gates	Magnification 10 KX	Asbestos	1.0
Wt: 0.0003 gm	Grid: 0.0088 mm ²	Acc. Voltage 120 KV	Nonasbestos	3.0
Dil: 1.	Filter Size: 47 mm	Operator: Jon Swope	% Wt of largest asbestos structure	%
HQ45440		Cv = 0.038		

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1				NSD							
2				NSD							
3				NSD							
4				NSD							
5				NSD							
6	1	7.7	0.2	Amphibole	F	MgSiFeCaAl	15743D	Image1	Diff1 Diff2	Cumm	Asb
7				NSD							
8				NSD							
9				NSD							
10				NSD							
11				NSD							
12	1	10.8	1.15	Amphibole		MgSiFeCa	15744D	Image2 Image3 Image4	Diff3	Cumm	Cle
13				NSD							
14				NSD							
15	1	5.7	0.5	Amphibole		MgSiCaFeAl	15745D	Image5	Diff4	Acti	Cle
16	1	7.6	0.5	Amphibole		MgSiCaFeAl				Acti	Cle
17				NSD							
18				NSD							
19				NSD							
20				NSD							
21				NSD							
22				NSD							
23				NSD							
24				NSD							
25				NSD							

12% Particulate

Analyst's Comments: N/A

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 7/29/2020 10:30:02 AM approve by Jon Swope

Final Review: 8/3/20 1:37 PM approve by Ashleigh Sload

Final Laboratory Report

TEM Bulk Protocol

Attention: David Raphael
K & L Gates
17 North Second Street
Harrisburg, PA 17101
US

Report Date: 08/03/2020
Sample Receipt Date:
RJ Lee Group Job No.: LLH901997-22
Authorization/P.O. No.:
Samples Received: 1
Client Job No.:

Method: ISO 22262-2

TABLE 1 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos

Client Sample Number	RJLG Sample Number	<u>Total Structures</u>				-----Weight Percent----- <u>Total Structures</u> Analytical Sensitivity			
		Chry	Amph	Cleavage	Non Asbestos	Chry	Amph Asb	Amph Cleavage Fragment	Non Asbestos
3 - RH #3	3158825	0	1	49	0	< 3.3E-6 3.3E-6	8.8E-4 2.6E-6	2.5E-1 2.6E-6	< 2.5E-6 2.5E-6

NOTES

1. "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
2. Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
3. If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
4. Density of amphibole: 3.2×10^{-3} ng/ μ m³, density of chrysotile: 2.55×10^{-3} ng/ μ m³, density of non-asbestos: 3.00×10^{-3} ng/ μ m³.
5. Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
6. Samples will be held for 90 days and then disposed of per Federal regulations.
7. These results are submitted pursuant to RJ Lee Group'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 these results are used or interpreted.

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RJ Lee Group Job No: LLH901997-22
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/03/2020

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos 5 μm

Client Sample Number	RJLG Sample Number	-----Structures 5 μm-----				-----Weight Percent----- Structures 5 μm Analytical Sensitivity			
		Chry	Amph	Cleavage	Non-Asbestos	Amphibole			
						Chry	Asb	Cleavage Fragment	Non-Asbestos
3 - RH #3	3158825	0	1	6	0	<u>< 3.3E-5</u> 3.3E-5	<u>8.8E-4</u> 2.6E-5	<u>1.8E-1</u> 2.6E-5	<u>< 2.5E-5</u> 2.5E-5

NOTES

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- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2 * 10⁻³ ng/ μ m³, density of chrysotile: 2.55 * 10⁻³ ng/ μ m³, density of non-asbestos: 3.00 * 10⁻³ ng/ μ m³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
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RJ Lee Group, Inc.

RJ Lee Group Job No: LLH901997-22
Client Job No/Name:

Final Laboratory Report (cont'd)

Client: K & L Gates
Report Date: 08/03/2020

Client Sample Number	RJLG Sample Number	Material Used (gm)	Area Analyzed Total (mm ²)	Area Analyzed 5 μm (mm ²)	Effective Filter Area (mm ²)	Dilution Factor
3 - RH #3	3158825	0.0003	0.30731	0.30731	1220	1.0

Authorized Signature: 
Ashleigh Sload, Scientist

NOTES

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- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
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- Density of amphibole: 3.2×10^{-3} ng/μm³, density of chrysotile: 2.55×10^{-3} ng/μm³, density of non-asbestos: 3.00×10^{-3} ng/μm³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
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RJ Lee Group, Inc
LLH901997-22
3158825.HTA2

K & L Gates
3 - RH #3

29-Jul-20

Air volume:

Area of collection filter:

Volume flowrate:

Level of analysis (chrysotile):

NA

Level of analysis (amphibole):

AZQ

0

Magnification used for structure counting:

Aspect ratio for fibre definition:

3:1

Mean dimension of grid openings:

0.00878032

Initials of analyst:

JS

Number of grid openings examined:

35

Analytical sensitivity:

Number of primary asbestos structures:

50

Number of asbestos structures counted:

50

Number of asbestos structures >5 µm:

7

Number of fibres and bundles > 5 µm:

7

Number of PCM equivalent asbestos structures:

6

Number of PCM equivalent asbestos fibres:

6

TEM asbestos structure count					
Report Number:	LLH901997-22				
Sample Number:	3158825.HTA2		Sample Weight:	0.0003	
Sample Description:	3 - RH #3		Filter area (mm2):	1220	
			Magnification:	10/20 KX	
			Grid opening dimension (mm2)	0.00878032	
Preparation date:	06/5/20	By:	Mk		
Analysis date:	07/29/20	By:	JS	Level of analysis (chrysotile)	NA
Computer entry date:	08/9/20	By:	MMK	Level of analysis (amphibole)	AZQ

Grid	Grid Opening	Structures		Identification	Structure type	Length (µm)	Width (µm)	Fibre Type	Comments
		primary	total						
1	H1	1	1	AZQ	F	1.95	0.3	Actinolite	
		2	2	ADX	F	1.2	0.2	Actinolite	
		3	3	ADX	F	1.3	0.2	Actinolite	
		4	4	ADX	F	2.9	0.4	Actinolite	
		5	5	ADX	F	1.1	0.15	Actinolite	
	H3	6	6	ADX	F	1.2	0.2	Actinolite	
		7	7	ADX	F	5.8	1.1	Actinolite	
		8	8	ADX	F	2.3	0.3	Actinolite	
		9	9	ADX	F	3.4	0.3	Actinolite	
		10	10	ADX	F	2.1	0.4	Actinolite	
	H5	11	11	AZQ	F	2.1	0.4	Actinolite	
		12	12	ADX	F	1.2	0.2	Actinolite	
		13	13	ADX	F	3.6	0.5	Actinolite	
		14	14	ADX	F	1.4	0.2	Actinolite	
		15	15	ADX	F	0.9	0.18	Actinolite	
		16	16	ADX	F	1.9	0.3	Actinolite	
		17	17	ADX	F	1.5	0.3	Actinolite	
		18	18	ADX	F	1.8	0.3	Actinolite	
	H7	19	19	ADX	F	1.3	0.2	Actinolite	
		20	20	ADX	F	1.25	0.2	Actinolite	
		21	21	AZQ	F	1.2	0.2	Actinolite	
		22	22	ADX	F	3.4	0.4	Actinolite	
		23	23	ADX	F	4.8	0.6	Actinolite	
		24	24	ADX	F	1.3	0.2	Actinolite	
		25	25	ADX	F	8.7	1.1	Actinolite	
	H9	26	26	ADX	F	2.4	0.2	Actinolite	
		27	27	ADX	F	3.2	0.3	Actinolite	
		28	28	ADX	F	1.3	0.2	Actinolite	
		29	29	ADX	F	2.4	0.4	Actinolite	
		30	30	ADX	F	1.5	0.22	Actinolite	
	B1			No Fibres					
	B3			No Fibres					
	B5			No Fibres					
	B7			No Fibres					
	B8			No Fibres					
	D9	31	31	AZQ	B	7.7	0.2	Cummingtonite	
	D7			No Fibres					
	D5			No Fibres					
	D3			No Fibres					
	D1			No Fibres					
	F1			No Fibres					
	F3	32	32	AZQ	F	21.6	1.15	Cummingtonite	

TEM asbestos structure count					
Report Number:	LLH901997-22				
Sample Number:	3158825.HTA2		Sample Weight:	0.0003	
Sample Description:	3 - RH #3		Filter area (mm ²):	1220	
			Magnification:	10/20 KX	
			Grid opening dimension (mm ²)	0.00878032	
Preparation date:	06/5/20	By:	Mk		
Analysis date:	07/29/20	By:	JS	Level of analysis (chrysotile)	NA
Computer entry date:	08/9/20	By:	MMK	Level of analysis (amphibole)	AZQ

Grid	Grid Opening	Structures		Identification	Structure type	Length (µm)	Width (µm)	Fibre Type	Comments
		primary	total						
	F7			No Fibres					
2	C1			No Fibres					
	C3	33	33	AZQ	F	5.7	0.5	Actinolite	
	C5	34	34	ADX	F	7.6	0.5	Actinolite	
	C7			No Fibres					
	C9			No Fibres					
	E9			No Fibres					
	E7			No Fibres					
	E4			No Fibres					
	E2			No Fibres					
	G1			No Fibres					
	G3			No Fibres					
	G5			No Fibres					
	H1	35	35	AZQ	F	5.8	0.5	Actinolite	
		36	36	ADX	F	1.2	0.2	Actinolite	
		37	37	ADX	F	1.7	0.2	Actinolite	
		38	38	ADX	F	3.5	0.3	Actinolite	
	H3	39	39	ADX	F	1.7	0.3	Actinolite	
		40	40	ADX	F	2.6	0.3	Actinolite	
		41	41	ADX	F	1.4	0.2	Actinolite	
		42	42	ADX	F	1.6	0.2	Actinolite	
	H5	43	43	ADX	F	1.55	0.3	Actinolite	
		44	44	ADX	F	3.2	0.4	Actinolite	
	H7	45	45	AZQ	F	1.1	0.2	Actinolite	
		46	46	ADX	F	3.1	0.5	Actinolite	
	H9	47	47	ADX	F	1.2	0.2	Actinolite	
		48	48	ADX	F	2.5	0.3	Actinolite	
		49	49	ADX	F	1.6	0.2	Actinolite	
		50	50	ADX	F	1.3	0.2	Actinolite	

Final Laboratory Report

TEM Bulk Protocol

Attention: David Raphael
K & L Gates
17 North Second Street
Harrisburg, PA 17101
US

Report Date: 08/11/2020
Sample Receipt Date:
RJ Lee Group Job No.: LLH901997-22
Authorization/P.O. No.:
Samples Received: 1
Client Job No.:

Method: EPA/R-93/600/116

TABLE 1 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos

Client Sample Number	RJLG Sample Number	Total Structures				-----Weight Percent----- Total Structures Analytical Sensitivity			
		Chry	Amph	Cleavage	Non Asbestos	Chry	Amph Asb	Amph Cleavage Fragment	Non Asbestos
4 - RH #4	3158826	0	1	22	10	< 9.9E-6 9.9E-6	6.9E-3 1.2E-5	3.1E-1 7.9E-6	1.9E-3 7.5E-6

NOTES

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- Density of amphibole: 3.2×10^{-3} ng/ μ m³, density of chrysotile: 2.55×10^{-3} ng/ μ m³, density of non-asbestos: 3.00×10^{-3} ng/ μ m³.
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RJ Lee Group Job No: LLH901997-22
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/11/2020

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos 5 μm

Client Sample Number	RJLG Sample Number	-----Structures 5 μm-----				-----Weight Percent----- Structures 5 μm Analytical Sensitivity			
		Chry	Amph	Cleavage	Non-Asbestos	Amphibole			
						Chry	Asb	Cleavage Fragment	Non-Asbestos
4 - RH #4	3158826	0	1	4	0	<u>< 9.9E-5</u> 9.9E-5	<u>6.9E-3</u> 1.2E-4	<u>2.4E-1</u> 7.9E-5	<u>< 7.5E-5</u> 7.5E-5

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- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2 * 10⁻³ ng/ μ m³, density of chrysotile: 2.55 * 10⁻³ ng/ μ m³, density of non-asbestos: 3.00 * 10⁻³ ng/ μ m³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
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RJ Lee Group, Inc.

RJ Lee Group Job No: LLH901997-22
Client Job No/Name:

Final Laboratory Report (cont'd)

Client: K & L Gates
Report Date: 08/11/2020

Client Sample Number	RJLG Sample Number	Material Used (gm)	Area Analyzed Total (mm ²)	Area Analyzed 5 μm (mm ²)	Effective Filter Area (mm ²)	Dilution Factor
4 - RH #4	3158826	0.0001	0.30731	0.30731	1220	1.0

Authorized Signature: 
Ashleigh Sload, Scientist

NOTES

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- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2×10^{-3} ng/μm³, density of chrysotile: 2.55×10^{-3} ng/μm³, density of non-asbestos: 3.00×10^{-3} ng/μm³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
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RJL: LLH901997-22	3158826.HTA2	Microscope tem2000fx2	Grid Openings	10
4 - RH #4	K & L Gates	Magnification 21 KX	Asbestos	1.0
Wt: 0.0001 gm	Grid: 0.0088 mm ²	Acc. Voltage 120 KV	Asbestos >= 5µm	1.0
Dil: 1.	Filter Size: 47 mm	Operator: Jon Swope	Nonasbestos	28.0
HQ45440		Cv = 0.09	Nonasbestos >= 5µm	0.0
			% Wt of largest asbestos structure	%

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1	1	2.85	0.3	Amphibole		MgSiCaFe	15748D	Image1	Diff1	Acti	Cle
1	2	1.2	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
1	3	1.4	0.05	Non-Asbestos		AlSi	15749D	Image2	X		
1	4	2.3	0.4	Amphibole		MgSiCaFe			X	Acti	Cle
2	1	1.7	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
2	2	1.9	0.12	Non-Asbestos		AlSi			X		
2	3	0.7	0.05	Non-Asbestos		AlSi			X		
3	1	1.1	0.1	Non-Asbestos		AlSi			X		
3	2	3.6	0.4	Amphibole		MgSiCaFe			X	Acti	Cle
4	1	1.4	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
4	2	1.4	0.1	Non-Asbestos		AlSi			X		
4	3	1.2	0.1	Non-Asbestos		AlSi			X		
4	4	1.2	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
4	5	1.5	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
5	1	1.45	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
5	2	1.6	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
6	1	2.5	0.15	Amphibole		MgSiCaFe	15751D	Image3	Diff2	Acti	Cle
6	2	1.2	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
6	3	1.25	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
6	4	1.2	0.1	Non-Asbestos		AlSi			X		
6	5	2.5	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
7	1	3.2	0.4	Amphibole		MgSiCaFe			X	Acti	Cle
7	2	5.1	0.2	Amphibole	F	MgSiCaFe			X	Acti	Asb
8	1	1.3	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
9	1	1.9	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
9	2	0.65	0.1	Non-Asbestos		AlSi			X		
9	3	0.55	0.05	Non-Asbestos		AlSi			X		
9	4	0.7	0.05	Non-Asbestos		AlSi			X		
10	1	1.6	0.3	Amphibole		MgSiCaFe			X	Acti	Cle

12% Particulate

Analyst's Comments: N/A

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 7/29/2020 11:16:41 AM approve by Jon Swope

Final Review: 8/11/20 10:52 AM approve by Ashleigh Sload

RJL: LLH901997-22	3158826.HTA2	Microscope tem2000fx2	Grid Openings	25
4 - RH #4	K & L Gates	Magnification 10 KX	Asbestos	0.0
Wt: 0.0001 gm	Grid: 0.0088 mm ²	Acc. Voltage 120 KV	Nonasbestos	4.0
Dil: 1.	Filter Size: 47 mm	Operator: Jon Swope	% Wt of largest asbestos structure	%
HQ45440		Cv = 0		

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1				NSD							
2				NSD							
3				NSD							
4				NSD							
5				NSD							
6				NSD							
7	1	6.6	1.15	Amphibole		MgSiCaFe	15750D	Image2 Image3 Image4 Image5	Diff1	Acti	Cle
8				NSD							
9				NSD							
10				NSD							
11				NSD							
12				NSD							
13				NSD							
14				NSD							
15	1	8.6	0.98	Amphibole		MgSiCaFe			X	Acti	Cle
15	2	20.1	0.5	Amphibole		MgSiCaFe		Image6	X	Acti	Cle
16				NSD							
17				NSD							
18				NSD							
19				NSD							
20				NSD							
21				NSD							
22				NSD							
23				NSD							
24	1	6.6	0.9	Amphibole		MgSiCaFe			X	Acti	Cle
25				NSD							

12% Particulate

Analyst's Comments: N/A

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 7/29/2020 12:44:22 PM approve by Jon Swope

Final Review: 8/11/20 10:52 AM approve by Ashleigh Sload

Final Laboratory Report

TEM Bulk Protocol

Attention: David Raphael
K & L Gates
17 North Second Street
Harrisburg, PA 17101
US

Report Date: 08/11/2020
Sample Receipt Date:
RJ Lee Group Job No.: LLH901997-22
Authorization/P.O. No.:
Samples Received: 1
Client Job No.:

Method: ISO 22262-2

TABLE 1 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos

Client Sample Number	RJLG Sample Number	<u>Total Structures</u>				-----Weight Percent----- <u>Total Structures</u> Analytical Sensitivity			
		Chry	Amph	Cleavage	Non Asbestos	Chry	Amph Asb	Amph Cleavage Fragment	Non Asbestos
4 - RH #4	3158826	0	1	22	10	< 9.9E-6 9.9E-6	4.4E-3 7.9E-5	3.1E-1 7.9E-6	1.9E-3 7.5E-6

NOTES

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RJ Lee Group Job No: LLH901997-22
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/11/2020

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos 5 μm

Client Sample Number	RJLG Sample Number	-----Structures 5 μm-----				-----Weight Percent----- Structures 5 μm Analytical Sensitivity			
		Chry	Amph	Cleavage	Non-Asbestos	Amphibole			
						Chry	Asb	Cleavage Fragment	Non-Asbestos
4 - RH #4	3158826	0	1	4	0	<u>< 9.9E-5</u> 9.9E-5	<u>4.4E-3</u> 7.9E-4	<u>2.4E-1</u> 7.9E-5	<u>< 7.5E-5</u> 7.5E-5

NOTES

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- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
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RJ Lee Group, Inc.

RJ Lee Group Job No: LLH901997-22
Client Job No/Name:

Final Laboratory Report (cont'd)

Client: K & L Gates
Report Date: 08/11/2020

Client Sample Number	RJLG Sample Number	Material Used (gm)	Area Analyzed Total (mm ²)	Area Analyzed 5 μm (mm ²)	Effective Filter Area (mm ²)	Dilution Factor
4 - RH #4	3158826	0.0001	0.30731	0.30731	1220	1.0

Authorized Signature: 
Ashleigh Sload, Scientist

NOTES

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- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2×10^{-3} ng/μm³, density of chrysotile: 2.55×10^{-3} ng/μm³, density of non-asbestos: 3.00×10^{-3} ng/μm³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
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RJ Lee Group, Inc
LLH901997-22
3158826.HTA2

K & L Gates
4 - RH #4

29-Jul-20

Air volume:

Area of collection filter:

Volume flowrate:

Level of analysis (chrysotile):

NA

Level of analysis (amphibole):

AZQ

0

Magnification used for structure counting:

Aspect ratio for fibre definition:

3:1

Mean dimension of grid openings:

0.00878032

Initials of analyst:

JS

Number of grid openings examined:

35

Analytical sensitivity:

Number of primary asbestos structures:

23

Number of asbestos structures counted:

24

Number of asbestos structures >5 µm:

4

Number of fibres and bundles > 5 µm:

3

Number of PCM equivalent asbestos structures:

2

Number of PCM equivalent asbestos fibres:

2

TEM asbestos structure count					
Report Number:	LLH901997-22				
Sample Number:	3158826.HTA2		Sample Weight:	0.0001	
Sample Description:	4 - RH #4		Filter area (mm ²):	1220	
			Magnification:	10/20 KX	
			Grid opening dimension (mm ²):	0.00878032	
Preparation date:	06/5/20	By:	Mk		
Analysis date:	07/29/20	By:	JS	Level of analysis (chrysotile)	NA
Computer entry date:	08/9/20	By:	MMK	Level of analysis (amphibole)	AZQ

Grid	Grid Opening	Structures		Identification	Structure type	Length (µm)	Width (µm)	Fibre Type	Comments	
		primary	total							
1	G2	1	1	AZQ	F	2.85	0.3	Actinolite		
		2	2	ADX	F	1.2	0.2	Actinolite		
				NAM		1.4	0.05			
		G4	3	3	ADX	F	2.3	0.4	Actinolite	
			4	4	ADX	F	1.7	0.3	Actinolite	
					NAM		1.9	0.12		
					NAM		0.7	0.05		
		G6			NAM		1.1	0.1		
			6	6	ADX	F	3.6	0.4	Actinolite	
		I6	7	7	ADX	F	1.4	0.2	Actinolite	
					NAM		1.4	0.1		
				NAM		1.2	0.1			
		8	8	ADX	F	1.2	0.2	Actinolite		
		9	9	ADX	F	1.5	0.3	Actinolite		
J4		10	10	ADX	F	1.45	0.2	Actinolite		
		11	11	ADX	F	1.6	0.3	Actinolite		
B2				No Fibres						
B4				No Fibres						
B6				No Fibres						
B8				No Fibres						
C10				No Fibres						
D9				No Fibres						
D7		12	12	ADX	F	6.6	1.15	Actinolite		
D5				No Fibres						
D3				No Fibres						
D1				No Fibres						
F2				No Fibres						
F4				No Fibres						
F7				No Fibres						
2	B1			No Fibres						
		13		ADX	CD22	20.1	8.6	Actinolite		
				13	ADX	CF	8.6	0.98	Actinolite	
				14	ADX	CF	20.1	0.5	Actinolite	
B5				No Fibres						
B7				No Fibres						
B9				No Fibres						
D10				No Fibres						
D8				No Fibres						
D6				No Fibres						
D4				No Fibres						
D2				No Fibres						
F1		14	15	ADX	F	6.6	0.9	Actinolite		

TEM asbestos structure count					
Report Number:	LLH901997-22				
Sample Number:	3158826.HTA2		Sample Weight:	0.0001	
Sample Description:	4 - RH #4		Filter area (mm ²):	1220	
			Magnification:	10/20 KX	
			Grid opening dimension (mm ²)	0.00878032	
Preparation date:	06/5/20	By:	Mk		
Analysis date:	07/29/20	By:	JS	Level of analysis (chrysotile)	NA
Computer entry date:	08/9/20	By:	MMK	Level of analysis (amphibole)	AZQ

Grid	Grid Opening	Structures		Identification	Structure type	Length (µm)	Width (µm)	Fibre Type	Comments
		primary	total						
	F3			No Fibres					
	H1	15	16	AZQ	F	2.5	0.15	Actinolite	
		16	17	ADX	F	1.2	0.2	Actinolite	
		17	18	ADX	F	1.25	0.2	Actinolite	
		18	19	ADX	F	1.2	0.1	Actinolite	
		19	20	ADX	F	2.5	0.3	Actinolite	
	H3	20	21	ADX	F	3.2	0.4	Actinolite	
		21	22	ADX	F	5.1	0.2	Actinolite	
	H5	22	23	ADX	F	1.3	0.2	Actinolite	
	H7	23	24	ADX	F	1.9	0.3	Actinolite	
				NAM		0.65	0.1		
				NAM		0.55	0.05		
				NAM		0.7	0.05		
	H9	24	25	ADX	F	1.6	0.3	Actinolite	

Final Laboratory Report

TEM Bulk Protocol

Attention: David Raphael
K & L Gates
17 North Second Street
Harrisburg, PA 17101
US

Report Date: 08/12/2020
Sample Receipt Date:
RJ Lee Group Job No.: LLH901997-22
Authorization/P.O. No.:
Samples Received: 1
Client Job No.:

Method: EPA/R-93/600/116

TABLE 1 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos

Client Sample Number	RJLG Sample Number	Total Structures				-----Weight Percent----- Total Structures Analytical Sensitivity			
		Chry	Amph	Cleavage	Non Asbestos	Chry	Amph Asb	Amph Cleavage Fragment	Non Asbestos
5 - RH #5	3158827	0	3	106	0	< 5.0E-6 5.0E-6	6.8E-3 6.2E-6	9.4E-1 4.0E-6	< 3.7E-6 3.7E-6

NOTES

- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2×10^{-3} ng/ μ m³, density of chrysotile: 2.55×10^{-3} ng/ μ m³, density of non-asbestos: 3.00×10^{-3} ng/ μ m³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
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RJ Lee Group Job No: LLH901997-22
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/12/2020

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos 5 μm

Client Sample Number	RJLG Sample Number	-----Structures 5 μm-----				-----Weight Percent----- Structures 5 μm Analytical Sensitivity			
		Chry	Amph	Cleavage	Non-Asbestos	Amphibole			
						Chry	Asb	Cleavage Fragment	Non-Asbestos
5 - RH #5	3158827	0	2	19	0	<u>< 5.0E-5</u> 5.0E-5	<u>5.8E-3</u> 6.2E-5	<u>6.0E-1</u> 4.0E-5	<u>< 3.7E-5</u> 3.7E-5

NOTES

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- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2 * 10⁻³ ng/ μ m³, density of chrysotile: 2.55 * 10⁻³ ng/ μ m³, density of non-asbestos: 3.00 * 10⁻³ ng/ μ m³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
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RJ Lee Group, Inc.

RJ Lee Group Job No: LLH901997-22
Client Job No/Name:

Final Laboratory Report (cont'd)

Client: K & L Gates
Report Date: 08/12/2020

Client Sample Number	RJLG Sample Number	Material Used (gm)	Area Analyzed Total (mm ²)	Area Analyzed 5 μm (mm ²)	Effective Filter Area (mm ²)	Dilution Factor
5 - RH #5	3158827	0.0002	0.30731	0.30731	1220	1.0

Authorized Signature: 
Ashleigh Sload, Scientist

NOTES

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- Density of amphibole: 3.2×10^{-3} ng/μm³, density of chrysotile: 2.55×10^{-3} ng/μm³, density of non-asbestos: 3.00×10^{-3} ng/μm³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
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RJL: LLH901997-22	3158827.HTA2	Microscope tem2000fx1	Grid Openings	10
5 - RH #5	K & L Gates	Magnification 21 KX	Asbestos	1.0
Wt: 0.0002 gm	Grid: 0.0088 mm ²	Acc. Voltage 120 KV	Asbestos >= 5µm	0.0
Dil: 1.	Filter Size: 47 mm	Operator: Jacquelyn Mershon	Nonasbestos	92.0
HQ45440		Cv = 0.09	Nonasbestos >= 5µm % Wt of largest asbestos structure	5.0 %

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1	1	3.44	0.35	Amphibole		MgSiCaFeAl	6576C	Image1	Diff1	Acti	Cle
1	2	2.76	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
1	3	1.61	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
1	4	4.26	0.4	Amphibole		MgSiCaFe			X	Acti	Cle
1	5	4.14	0.61	Amphibole		MgSiCaFe			X	Acti	Cle
1	6	1.61	0.15	Amphibole		MgSiCaFe			X	Acti	Cle
1	7	2.29	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
1	8	2.29	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
1	9	2.19	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
1	10	5.73	0.69	Amphibole		MgSiCaFe			X	Acti	Cle
1	11	1.84	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
1	12	1.09	0.25	Amphibole		MgSiCaFe			X	Acti	Cle
1	13	2.07	0.6	Amphibole		MgSiCaFe			X	Acti	Cle
2	1	2.86	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
2	2	2.29	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
2	3	2.24	0.35	Amphibole		MgSiCaFeAl	6577C	Image2	Diff2	Acti	Cle
2	4	2.66	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
2	5	1.84	0.25	Amphibole		MgSiCaFe			X	Acti	Cle
2	6	3.68	0.25	Amphibole		MgSiCaFe			X	Acti	Cle
2	7	1.84	0.35	Amphibole		MgSiCaFe			X	Acti	Cle
2	8	3.44	0.24	Amphibole		MgSiCaFe			X	Acti	Cle
2	9	4.58	0.82	Amphibole		MgSiCaFe			X	Acti	Cle
2	10	1.38	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
2	11	1.38	0.25	Amphibole		MgSiCaFe			X	Acti	Cle
2	12	1.91	0.6	Amphibole		MgSiCaFe			X	Acti	Cle
3	1	1.61	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
3	2	4.58	0.66	Amphibole		MgSiCaFeAl	6578C	Image3	Diff3	Acti	Cle
3	3	2.07	0.35	Amphibole		MgSiCaFe			X	Acti	Cle
3	4	2.07	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
3	5	1.84	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
3	6	1.38	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
3	7	1.48	0.25	Amphibole		MgSiCaFe			X	Acti	Cle
3	8	3.34	0.2	Amphibole		MgSiCaFeAl	6579C	Image4	Diff4	Acti	Cle
4	1	1.38	0.25	Amphibole		MgSiCaFe			X	Acti	Cle
4	2	3.44	0.51	Amphibole		MgSiCaFe			X	Acti	Cle
4	3	1.04	0.15	Amphibole		MgSiCaFe			X	Acti	Cle
4	4	1.38	0.15	Amphibole		MgSiCaFe			X	Acti	Cle
4	5	1.26	0.15	Amphibole		MgSiCaFe			X	Acti	Cle
4	6	2.99	0.51	Amphibole		MgSiCaFe			X	Acti	Cle
5	1	4.58	0.87	Amphibole		MgSiCaFe			X	Acti	Cle
5	2	1.38	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
5	3	3.63	0.25	Amphibole		MgSiCaFe			X	Acti	Cle
5	4	2.19	0.1	Amphibole		MgSiCaFe		Image5	X	Acti	Cle
5	5	3.68	0.56	Amphibole		MgSiCaFe			X	Acti	Cle

RJL: LLH901997-22	3158827.HTA2	Microscope tem2000fx1	Grid Openings	10
5 - RH #5	K & L Gates	Magnification 21 KX	Asbestos	1.0
Wt: 0.0002 gm	Grid: 0.0088 mm ²	Acc. Voltage 120 KV	Asbestos >= 5µm	0.0
Dil: 1.	Filter Size: 47 mm	Operator: Jacquelyn Mershon	Nonasbestos	92.0
HQ45440		Cv = 0.09	Nonasbestos >= 5µm % Wt of largest asbestos structure	5.0 %

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
5	6	1.15	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
5	7	2.76	0.3	Amphibole		MgSiCaFeAl	6580C	Image6	Diff5	Acti	Cle
5	8	2.59	0.56	Amphibole		MgSiCaFe			X	Acti	Cle
6	1	1.84	0.35	Amphibole		MgSiCaFe			X	Acti	Cle
6	2	2.49	0.25	Amphibole		MgSiCaFe			X	Acti	Cle
6	3	1.15	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
6	4	1.61	0.23	Amphibole		MgSiCaFe			X	Acti	Cle
6	5	1.15	0.18	Amphibole		MgSiCaFe			X	Acti	Cle
6	6	4.14	0.35	Amphibole		MgSiCaFe			X	Acti	Cle
6	7	1.38	0.23	Amphibole		MgSiCaFe			X	Acti	Cle
6	8	2.44	0.25	Amphibole		MgSiCaFeAl	6581C	Image7	Diff6	Acti	Cle
6	9	2.86	0.25	Amphibole		MgSiCaFe			X	Acti	Cle
6	10	2.49	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
7	1	6.44	0.72	Amphibole		MgSiCaFe			X	Acti	Cle
7	2	1.48	0.25	Amphibole		MgSiCaFe			X	Acti	Cle
7	3	1.38	0.25	Amphibole		MgSiCaFe			X	Acti	Cle
7	4	1.38	0.15	Amphibole		MgSiCaFe			X	Acti	Cle
7	5	1.61	0.25	Amphibole		MgSiCaFe			X	Acti	Cle
7	6	2.07	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
7	7	1.46	0.45	Amphibole		MgSiCaFe			X	Acti	Cle
8	1	1.15	0.15	Amphibole		MgSiCaFe			X	Acti	Cle
8	2	2.35	0.4	Amphibole		MgSiCaFe			X	Acti	Cle
8	3	2.29	0.3	Amphibole		MgSiCaFeAl	6582C	Image8	Diff7	Acti	Cle
8	4	3.22	0.25	Amphibole		MgSiCaFe			X	Acti	Cle
8	5	1.15	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
8	6	3.44	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
8	7	1.38	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
8	8	2.19	0.28	Amphibole		MgSiCaFe			X	Acti	Cle
8	9	2.86	0.4	Amphibole		MgSiCaFe			X	Acti	Cle
8	10	2.76	0.25	Amphibole		MgSiCaFe			X	Acti	Cle
8	11	1.4	0.45	Amphibole		MgSiCaFeAl	6752C	Image11	Diff10	Acti	Cle
9	1	1.26	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
9	2	1.5	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
9	3	3.44	0.61	Amphibole		MgSiCaFe			X	Acti	Cle
9	4	3.12	0.25	Amphibole		MgSiCaFe			X	Acti	Cle
9	5	2.39	0.46	Amphibole		MgSiCaFe			X	Acti	Cle
9	6	2.99	0.56	Amphibole		MgSiCaFe			X	Acti	Cle
9	7	2.29	0.4	Amphibole		MgSiCaFe			X	Acti	Cle
9	8	3.91	0.12	Amphibole	F	MgSiCaFe			X	Acti	Asb
9	9	5.06	0.92	Amphibole		MgSiCaFe			X	Acti	Cle
9	10	1.8	0.45	Amphibole		MgSiCaFe			X	Acti	Cle
10	1	2.07	0.2	Amphibole		MgSiCaFeAl	6583C	Image9	Diff8	Acti	Cle
10	2	5.06	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
10	3	1.48	0.2	Amphibole		MgSiCaFe			X	Acti	Cle

RJ Lee Group, Inc.
TEM Count Sheet

RJL: LLH901997-22	3158827.HTA2	Microscope tem2000fx1	Grid Openings	10
5 - RH #5	K & L Gates	Magnification 21 KX	Asbestos	1.0
Wt: 0.0002 gm	Grid: 0.0088 mm ²	Acc. Voltage 120 KV	Asbestos >= 5µm	0.0
Dil: 1.	Filter Size: 47 mm	Operator: Jacquelyn Mershon	Nonasbestos	92.0
HQ45440		Cv = 0.09	Nonasbestos >= 5µm structure	5.0
			% Wt of largest asbestos	%

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
10	4	1.84	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
10	5	10.58	1.15	Amphibole		MgSiCaFeAl	6584C	Image10	Diff9	Acti	Cle
10	6	2.53	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
10	7	2.65	0.25	Amphibole		MgSiCaFe			X	Acti	Cle
10	8	3.6	0.75	Amphibole		MgSiCaFe			X	Acti	Cle

10% Particulate

Analyst's Comments: N/A

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 7/29/2020 1:59:38 PM approve by Jacquelyn Mershon

Final Review: 8/12/20 1:00 PM approve by Ashleigh Sload

RJL: LLH901997-22	3158827.HTA2	Microscope tem2000fx1	Grid Openings	25
5 - RH #5	K & L Gates	Magnification 10 KX	Asbestos	2.0
Wt: 0.0002 gm	Grid: 0.0088 mm ²	Acc. Voltage 120 KV	Nonasbestos	14.0
Dil: 1.	Filter Size: 47 mm	Operator: Jacquelyn Mershon	% Wt of largest asbestos	%
HQ45440		Cv = 0.074	structure	

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1	1	5.18	0.45	Amphibole		MgSiCaFeAl	6585C	Image1	Diff1	Acti	Cle
2	1	7.65	0.27	Amphibole	F	MgSiCaFe			X	Acti	Asb
3				NSD							
4				NSD							
5	1	5.67	0.9	Amphibole		MgSiCaFe			X	Acti	Cle
6				NSD							
7	1	6.74	1.17	Amphibole		MgSiCaFe			X	Acti	Cle
8				NSD							
9				NSD							
10				NSD							
11	1	7.2	0.9	Amphibole		MgSiCaFe			X	Acti	Cle
12	1	5.4	0.54	Amphibole		MgSiCaFe			X	Acti	Cle
13	1	5.4	0.77	Amphibole		MgSiCaFe			X	Acti	Cle
14	1	5.85	0.5	Amphibole		MgSiCaFe			X	Acti	Cle
15	1	10.62	0.5	Amphibole		MgSiCaFe			X	Acti	Cle
16	1	8.1	0.36	Amphibole		MgSiCaFeAl	6586C	Image2	Diff2	Acti	Cle
16	2	5.18	0.63	Amphibole		MgSiCaFe			X	Acti	Cle
17				NSD							
18				NSD							
19				NSD							
20	1	5.67	0.54	Amphibole		MgSiCaFe			X	Acti	Cle
20	2	5.18	0.45	Amphibole		MgSiCaFe			X	Acti	Cle
21	1	7.2	1.35	Amphibole		MgSiCaFe			X	Acti	Cle
22				NSD							
23	1	5.4	0.23	Amphibole	F	MgSiCaFe			X	Acti	Asb
24	1	10.8	1.62	Amphibole		MgSiCaFe			X	Acti	Cle
25				NSD							

10% Particulate

Analyst's Comments: N/A

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 7/30/2020 9:20:31 AM approve by Jacquelyn Mershon

Final Review: 8/11/20 11:15 AM approve by Ashleigh Sload

Final Laboratory Report

TEM Bulk Protocol

Attention: David Raphael
K & L Gates
17 North Second Street
Harrisburg, PA 17101
US

Report Date: 08/12/2020
Sample Receipt Date:
RJ Lee Group Job No.: LLH901997-22
Authorization/P.O. No.:
Samples Received: 1
Client Job No.:

Method: ISO 22262-2

TABLE 1 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos

Client Sample Number	RJLG Sample Number	Total Structures				-----Weight Percent----- Total Structures Analytical Sensitivity			
		Chry	Amph	Cleavage	Non Asbestos	Chry	Amph Asb	Amph Cleavage Fragment	Non Asbestos
5 - RH #5	3158827	0	3	106	0	< 5.0E-6 5.0E-6	4.2E-3 4.0E-6	9.4E-1 4.0E-6	< 3.7E-6 3.7E-6

NOTES

- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2×10^{-3} ng/ μ m³, density of chrysotile: 2.55×10^{-3} ng/ μ m³, density of non-asbestos: 3.00×10^{-3} ng/ μ m³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
- These results are submitted pursuant to RJ Lee Group'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 these results are used or interpreted.

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RJ Lee Group Job No: LLH901997-22
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/12/2020

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos 5 μm

Client Sample Number	RJLG Sample Number	-----Structures 5 μm-----				-----Weight Percent----- Structures 5 μm Analytical Sensitivity			
		Chry	Amph	Cleavage	Non-Asbestos	Amphibole			
						Chry	Asb	Cleavage Fragment	Non-Asbestos
5 - RH #5	3158827	0	2	19	0	<u>< 5.0E-5</u> 5.0E-5	<u>3.6E-3</u> 4.0E-5	<u>6.0E-1</u> 4.0E-5	<u>< 3.7E-5</u> 3.7E-5

NOTES

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- Density of amphibole: 3.2 * 10⁻³ ng/ μ m³, density of chrysotile: 2.55 * 10⁻³ ng/ μ m³, density of non-asbestos: 3.00 * 10⁻³ ng/ μ m³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
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RJ Lee Group, Inc.

RJ Lee Group Job No: LLH901997-22
Client Job No/Name:

Final Laboratory Report (cont'd)

Client: K & L Gates
Report Date: 08/12/2020

Client Sample Number	RJLG Sample Number	Material Used (gm)	Area Analyzed Total (mm ²)	Area Analyzed 5 μm (mm ²)	Effective Filter Area (mm ²)	Dilution Factor
5 - RH #5	3158827	0.0002	0.30731	0.30731	1220	1.0

Authorized Signature: 
Ashleigh Sload, Scientist

NOTES

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RJ Lee Group, Inc
LLH901997-22
3158827.HTA2

K & L Gates
5 - RH #5

29-Jul-20

Air volume:
Area of collection filter:
Volume flowrate:
Level of analysis (chrysotile): NA
Level of analysis (amphibole): AZQ 0
Magnification used for structure counting:
Aspect ratio for fibre definition: 3:1
Mean dimension of grid openings: 0.00878032
Initials of analyst: JM
Number of grid openings examined: 35
Analytical sensitivity:
Number of primary asbestos structures: 120
Number of asbestos structures counted: 120
Number of asbestos structures >5 µm: 21
Number of fibres and bundles > 5 µm: 21
Number of PCM equivalent asbestos structures: 21
Number of PCM equivalent asbestos fibres: 21

TEM asbestos structure count					
Report Number:	LLH901997-22				
Sample Number:	3158827.HTA2		Sample Weight:	0.0002	
Sample Description:	5 - RH #5		Filter area (mm ²):	1220	
			Magnification:	10/20 KX	
			Grid opening dimension (mm ²):	0.00878032	
Preparation date:	06/5/20	By:	Mk		
Analysis date:	07/29/20	By:	JM	Level of analysis (chrysotile)	NA
Computer entry date:	08/9/20	By:	MMK	Level of analysis (amphibole)	AZQ

Grid	Grid Opening	Structures		Identification	Structure type	Length (µm)	Width (µm)	Fibre Type	Comments
		primary	total						
	H6	1	1	AZQ	F	3.44	0.35		
		2	2	ADX	F	2.76	0.3		
		3	3	ADX	F	1.61	0.2		
		4	4	ADX	F	4.26	0.4		
		5	5	ADX	F	4.14	0.61		
		6	6	ADX	F	1.61	0.15		
		7	7	ADX	F	2.29	0.2		
		8	8	ADX	F	2.29	0.3		
		9	9	ADX	F	2.19	0.3		
		10	10	ADX	F	5.73	0.69		
		11	11	ADX	F	1.84	0.3		
		12	12	ADX	F	1.09	0.25		
		13	13	ADX	F	2.07	0.6		
	H8	14	14	ADX	F	2.86	0.3		
		15	15	ADX	F	2.29	0.3		
		16	16	AZQ	F	2.24	0.35		
		17	17	ADX	F	2.66	0.2		
		18	18	ADX	F	1.84	0.25		
		19	19	ADX	F	3.68	0.25		
		20	20	ADX	F	1.84	0.35		
		21	21	ADX	F	3.44	0.24		
		22	22	ADX	F	4.58	0.82		
		23	23	ADX	F	1.38	0.2		
		24	24	ADX	F	1.38	0.25		
		25	25	ADX	F	1.91	0.6		
	I9	26	26	ADX	F	1.61	0.2		
		27	27	AZQ	F	4.58	0.66		
		28	28	ADX	F	2.07	0.35		
		29	29	ADX	F	2.07	0.3		
		30	30	ADX	F	1.84	0.2		
		31	31	ADX	F	1.38	0.2		
		32	32	ADX	F	1.48	0.25		
		33	33	AZQ	F	3.34	0.2		
	I3	34	34	ADX	F	1.38	0.25		
		35	35	ADX	F	3.44	0.51		
		36	36	ADX	F	1.04	0.15		
		37	37	ADX	F	1.38	0.15		
		38	38	ADX	F	1.26	0.15		
		39	39	ADX	F	2.99	0.51		
	I1	40	40	ADX	F	4.58	0.87		
		41	41	ADX	F	1.38	0.2		
		42	42	ADX	F	3.63	0.25		
		43	43	ADX	F	2.19	0.1		

TEM asbestos structure count					
Report Number:	LLH901997-22				
Sample Number:	3158827.HTA2			Sample Weight:	0.0002
Sample Description:	5 - RH #5			Filter area (mm ²):	1220
				Magnification:	10/20 KX
				Grid opening dimension (mm ²):	0.00878032
Preparation date:	06/5/20	By:	Mk		
Analysis date:	07/29/20	By:	JM	Level of analysis (chrysotile)	NA
Computer entry date:	08/9/20	By:	MMK	Level of analysis (amphibole)	AZQ

Grid	Grid Opening	Structures		Identification	Structure type	Length (µm)	Width (µm)	Fibre Type	Comments
		primary	total						
		44	44	ADX	F	3.68	0.56		
		45	45	ADX	F	1.15	0.2		
		46	46	AZQ	F	2.76	0.3		
		47	47	ADX	F	2.59	0.56		
	A1	48	48	AZQ	F	5.18	0.45		
	A3	49	49	ADX	F	7.65	0.27		
	A5	50	50	No Fibres					
	A7	51	51	No Fibres					
	C6	52	52	ADX	F	5.67	0.9		
	C4	53	53	No Fibres					
	C2	54	54	ADX	F	6.74	1.17		
	E1	55	55	No Fibres					
	E3	56	56	No Fibres					
	E7	57	57	No Fibres					
	G4	58	58	ADX	F	7.2	0.9		
	G2	59	59	ADX	F	5.4	0.54		
	H1	60	60	ADX	F	1.84	0.35		
		61	61	ADX	F	2.49	0.25		
		62	62	ADX	F	1.15	0.2		
		63	63	ADX	F	1.61	0.23		
		64	64	ADX	F	1.15	0.18		
		65	65	ADX	F	4.14	0.35		
		66	66	ADX	F	1.38	0.23		
		67	67	ADX	F	2.44	0.25		
		68	68	ADX	F	2.86	0.25		
		69	69	ADX	F	2.49	0.3		
	H3	70	70	ADX	F	6.44	0.72		
		71	71	ADX	F	1.48	0.25		
		72	72	ADX	F	1.38	0.25		
		73	73	ADX	F	1.38	0.15		
		74	74	ADX	F	1.61	0.25		
		75	75	ADX	F	2.07	0.3		
		76	76	ADX	F	1.46	0.45		
	H5	77	77	ADX	F	1.15	0.15		
		78	78	ADX	F	2.35	0.4		
		79	79	AZQ	F	2.29	0.3		
		80	80	ADX	F	3.22	0.25		
		81	81	ADX	F	1.15	0.2		
		82	82	ADX	F	3.44	0.3		
		83	83	ADX	F	1.38	0.2		
		84	84	ADX	F	2.19	0.28		
		85	85	ADX	F	2.86	0.4		
		86	86	ADX	F	2.76	0.25		

TEM asbestos structure count					
Report Number:	LLH901997-22				
Sample Number:	3158827.HTA2			Sample Weight:	0.0002
Sample Description:	5 - RH #5			Filter area (mm ²):	1220
				Magnification:	10/20 KX
				Grid opening dimension (mm ²)	0.00878032
Preparation date:	06/5/20	By:	Mk		
Analysis date:	07/29/20	By:	JM	Level of analysis (chrysotile)	NA
Computer entry date:	08/9/20	By:	MMK	Level of analysis (amphibole)	AZQ

Grid	Grid Opening	Structures		Identification	Structure type	Length (µm)	Width (µm)	Fibre Type	Comments
		primary	total						
		87	87	AZQ	F	1.4	0.45		
	H7	88	88	ADX	F	1.26	0.2		
		89	89	ADX	F	1.5	0.2		
		90	90	ADX	F	3.44	0.61		
		91	91	ADX	F	3.12	0.25		
		92	92	ADX	F	2.39	0.46		
		93	93	ADX	F	2.99	0.56		
		94	94	ADX	F	2.29	0.4		
		95	95	ADX	F	3.91	0.12		
		96	96	ADX	F	5.06	0.92		
		97	97	ADX	F	1.8	0.45		
	H9	98	98	AZQ	F	2.07	0.2		
		99	99	ADX	F	5.06	0.3		
		100	100	ADX	F	1.48	0.2		
		101	101	ADX	F	1.84	0.2		
		102	102	AZQ	F	10.58	1.15		
		103	103	ADX	F	2.53	0.2		
		104	104	ADX	F	2.65	0.25		
		105	105	ADX	F	3.6	0.75		
	B1	106	106	ADX	F	5.4	0.77		
	B3	107	107	ADX	F	5.85	0.5		
	B5	108	108	ADX	F	10.62	0.5		
	B7	109	109	AZQ	F	8.1	0.36		
		110	110	ADX	F	5.18	0.63		
	B9	111	111	No Fibres					
	D10	112	112	No Fibres					
	D8	113	113	No Fibres					
	D6	114	114	ADX	F	5.67	0.54		
		115	115	ADX	F	5.18	0.45		
	D4	116	116	ADX	F	7.2	1.35		
	D2	117	117	No Fibres					
	F1	118	118	ADX	F	5.4	0.23		
	F3	119	119	ADX	F	10.8	1.62		
	F7	120	120	No Fibres					

Final Laboratory Report

TEM Bulk Protocol

Attention: David Raphael
K & L Gates
17 North Second Street
Harrisburg, PA 17101
US

Report Date: 08/11/2020
Sample Receipt Date:
RJ Lee Group Job No.: LLH901997-22
Authorization/P.O. No.:
Samples Received: 1
Client Job No.:

Method: EPA/R-93/600/116

TABLE 1 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos

Client Sample Number	RJLG Sample Number	<u>Total Structures</u>				-----Weight Percent----- <u>Total Structures</u> Analytical Sensitivity			
		Chry	Amph	Cleavage	Non Asbestos	Chry	Amph Asb	Amph Cleavage Fragment	Non Asbestos
6 - RH #6	3158828	0	11	62	1	< 9.9E-6 9.9E-6	1.8E-3 1.2E-5	6.0E-1 7.9E-6	1.3E-2 7.5E-6

NOTES

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2. Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
3. If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
4. Density of amphibole: 3.2×10^{-3} ng/ μ m³, density of chrysotile: 2.55×10^{-3} ng/ μ m³, density of non-asbestos: 3.00×10^{-3} ng/ μ m³.
5. Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
6. Samples will be held for 90 days and then disposed of per Federal regulations.
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RJ Lee Group Job No: LLH901997-22
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/11/2020

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos 5 μm

Client Sample Number	RJLG Sample Number	-----Structures 5 μm-----				-----Weight Percent----- Structures 5 μm Analytical Sensitivity			
		Chry	Amph	Cleavage	Non-Asbestos	Amphibole			
						Chry	Asb	Cleavage Fragment	Non-Asbestos
6 - RH #6	3158828	0	0	4	0	<u>< 9.9E-5</u> 9.9E-5	<u>< 1.2E-4</u> 1.2E-4	<u>1.9E-1</u> 7.9E-5	<u>< 7.5E-5</u> 7.5E-5

NOTES

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- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
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RJ Lee Group, Inc.

RJ Lee Group Job No: LLH901997-22
Client Job No/Name:

Final Laboratory Report (cont'd)

Client: K & L Gates
Report Date: 08/11/2020

Client Sample Number	RJLG Sample Number	Material Used (gm)	Area Analyzed Total (mm ²)	Area Analyzed 5 μm (mm ²)	Effective Filter Area (mm ²)	Dilution Factor
6 - RH #6	3158828	0.0001	0.30731	0.30731	1220	1.0

Authorized Signature: 
Ashleigh Sload, Scientist

NOTES

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- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
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RJL: LLH901997-22	3158828.HTA2	Microscope tem2000fx2	Grid Openings	10
6 - RH #6	K & L Gates	Magnification 21 KX	Asbestos	11.0
Wt: 0.0001 gm	Grid: 0.0088 mm ²	Acc. Voltage 120 KV	Asbestos >= 5µm	0.0
Dil: 1.	Filter Size: 47 mm	Operator: Jon Swope	Nonasbestos	62.0
HQ45440		Cv = 1.49	Nonasbestos >= 5µm	3.0
			% Wt of largest asbestos structure	%

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1	1	1.1	0.15	Amphibole		MgSiCaFeAl	15752D	Image1	Diff1	Acti	Cle
1	2	1.2	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
1	3	1.6	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
1	4	2.6	0.35	Amphibole		MgSiCaFe			X	Acti	Cle
2	1	4.8	0.6	Amphibole		MgSiCaFe			X	Acti	Cle
2	2	1.25	0.15	Amphibole		MgSiCaFe			X	Acti	Cle
2	3	4.8	0.6	Amphibole		MgSiCaFe			X	Acti	Cle
3	1	2.3	0.4	Amphibole		MgSiCaFe			X	Acti	Cle
3	2	1.2	0.18	Amphibole		MgSiCaFe			X	Acti	Cle
3	3	1.6	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
3	4	1.5	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
3	5	3.5	0.35	Amphibole		MgSiCaFe		Image2	X	Acti	Cle
3	6	4.3	0.5	Amphibole		MgSiCaFeAl	15753D	Image3	Diff2	Acti	Cle
3	7	3.9	0.4	Amphibole		MgSiCaFe			X	Acti	Cle
3	8	1.2	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
4	1	2.3	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
4	2	2.1	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
4	3	1.5	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
4	4	2.2	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
4	5	1.4	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
4	6	3.2	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
4	7	3.1	0.5	Amphibole		MgSiCaFe			X	Acti	Cle
5	1	0.8	0.12	Amphibole		MgSiCaFe			X	Acti	Cle
5	2	2.45	0.45	Amphibole		MgSiCaFe			X	Acti	Cle
5	3	2.95	0.5	Amphibole		MgSiCaFeAl	15754D	Image4 Image5	Diff3	Acti	Cle
5	4	2.3	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
5	5	3.2	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
5	6	1.2	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
5	7	7.3	0.55	Amphibole	M	MgSiCaFeAl	15755D	Image6	Diff4	Acti	Cle
5	8	2.5	0.5	Non-Asbestos		MgAlSiFe	15756D	Image7	X		
5	9	1.8	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
5	10	1.6	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
5	11	1.6	0.05	Amphibole	F	MgSiCaFe			X	Acti	Asb
5	12	3.4	0.4	Amphibole		MgSiCaFe			X	Acti	Cle
5	13	2.5	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
6	1	1.9	0.08	Amphibole	F	MgSiCaFe			X	Acti	Asb
6	2	2.7	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
6	3	1.4	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
6	4	3.2	0.4	Amphibole		MgSiCaFe			X	Acti	Cle
6	5	0.9	0.1	Amphibole		MgSiCaFe			X	Acti	Cle
6	6	1.2	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
7	1	0.9	0.1	Amphibole		MgSiCaFe			X	Acti	Cle
7	2	8.8	0.2	Amphibole		MgSiCaFe	15757D	Image8	Diff5	Acti	Cle

RJL: LLH901997-22	3158828.HTA2	Microscope tem2000fx2	Grid Openings	10
6 - RH #6	K & L Gates	Magnification 21 KX	Asbestos	11.0
Wt: 0.0001 gm	Grid: 0.0088 mm ²	Acc. Voltage 120 KV	Asbestos >= 5µm	0.0
Dil: 1.	Filter Size: 47 mm	Operator: Jon Swope	Nonasbestos	62.0
HQ45440		Cv = 1.49	Nonasbestos >= 5µm	3.0
			% Wt of largest asbestos structure	%

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
								Image9			
								Image10			
								Image11			
7	3	0.8	0.05	Amphibole	F	MgSiCaFe			X	Acti	Asb
7	4	0.85	0.1	Amphibole		MgSiCaFe			X	Acti	Cle
7	5	3.5	0.4	Amphibole		MgSiCaFe			X	Acti	Cle
7	6	1.6	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
7	7	1.4	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
7	8	2.6	0.5	Amphibole		MgSiCaFe			X	Acti	Cle
7	9	1.9	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
8	1	1.7	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
8	2	1.7	0.05	Amphibole	F	MgSiCaFe			X	Acti	Asb
8	3	1.6	0.05	Amphibole	F	MgSiCaFe			X	Acti	Asb
8	4	1.9	0.05	Amphibole	F	MgSiCaFe			X	Acti	Asb
8	5	1.3	0.2	Amphibole		MgSiCaFeAl	5758D	Image12	Diff	Acti	Cle
8	6	1.2	0.05	Amphibole	F	MgSiCaFe			X	Acti	Asb
8	7	4.3	0.5	Amphibole		MgSiCaFe			X	Acti	Cle
8	8	5.7	0.8	Amphibole		MgSiCaFe			X	Acti	Cle
8	9	2.3	0.4	Amphibole		MgSiCaFe			X	Acti	Cle
9	1	2.5	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
9	2	0.9	0.05	Amphibole	F	MgSiCaFe			X	Acti	Asb
9	3	2.7	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
9	4	2.8	0.4	Amphibole		MgSiCaFe			X	Acti	Cle
9	5	1.3	0.05	Amphibole	F	MgSiCaFe			X	Acti	Asb
9	6	2.5	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
9	7	3.8	0.5	Amphibole		MgSiCaFe			X	Acti	Cle
9	8	4.5	0.4	Amphibole		MgSiCaFe			X	Acti	Cle
10	1	1.3	0.25	Amphibole		MgSiCaFeAl	5759D	Image13	Diff	Acti	Cle
10	2	1.6	0.2	Amphibole		MgSiCaFeAl			X	Acti	Cle
10	3	4.6	0.3	Amphibole		MgSiCaFeAl			X	Acti	Cle
10	4	3.1	0.05	Amphibole	F	MgSiCaFeAl			X	Acti	Asb
10	5	2.5	0.05	Amphibole	F	MgSiCaFeAl			X	Acti	Asb
10	6	3.7	0.4	Amphibole		MgSiCaFeAl			X	Acti	Cle

14% Particulate

Analyst's Comments: N/A

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 7/30/2020 11:10:04 AM approve by Jon Swope

Final Review: 8/11/20 11:05 AM approve by Ashleigh Sload

RJL: LLH901997-22	3158828.HTA2	Microscope tem2000fx2	Grid Openings	25
6 - RH #6	K & L Gates	Magnification 10 KX	Asbestos	0.0
Wt: 0.0001 gm	Grid: 0.0088 mm ²	Acc. Voltage 120 KV	Nonasbestos	1.0
Dil: 1.	Filter Size: 47 mm	Operator: Jon Swope	% Wt of largest asbestos structure	%
HQ45440		Cv = 0		

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1				NSD							
2				NSD							
3				NSD							
4				NSD							
5				NSD							
6				NSD							
7				NSD							
8				NSD							
9				NSD							
10				NSD							
11				NSD							
12				NSD							
13				NSD							
14				NSD							
15				NSD							
16				NSD							
17				NSD							
18				NSD							
19				NSD							
20				NSD							
21				NSD							
22				NSD							
23				NSD							
24				NSD							
25	1	7.2	0.95	Amphibole		MgSiCaFeAl	15760D	Image1	Diff1	Acti	Cle

14% Particulate

Analyst's Comments: N/A

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 7/30/2020 12:40:10 PM approve by Jon Swope

Final Review: 8/11/20 11:04 AM approve by Ashleigh Sload

Final Laboratory Report

TEM Bulk Protocol

Attention: David Raphael
K & L Gates
17 North Second Street
Harrisburg, PA 17101
US

Report Date: 08/11/2020
Sample Receipt Date:
RJ Lee Group Job No.: LLH901997-22
Authorization/P.O. No.:
Samples Received: 1
Client Job No.:

Method: ISO 22262-2

TABLE 1 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos

Client Sample Number	RJLG Sample Number	<u>Total Structures</u>				-----Weight Percent----- <u>Total Structures</u> Analytical Sensitivity			
		Chry	Amph	Cleavage	Non Asbestos	Chry	Amph Asb	Amph Cleavage Fragment	Non Asbestos
6 - RH #6	3158828	0	11	62	1	< 9.9E-6 9.9E-6	1.2E-3 7.9E-5	6.0E-1 7.9E-6	1.3E-2 7.5E-6

NOTES

1. "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
2. Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
3. If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
4. Density of amphibole: 3.2×10^{-3} ng/ μ m³, density of chrysotile: 2.55×10^{-3} ng/ μ m³, density of non-asbestos: 3.00×10^{-3} ng/ μ m³.
5. Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
6. Samples will be held for 90 days and then disposed of per Federal regulations.
7. These results are submitted pursuant to RJ Lee Group'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 these results are used or interpreted.

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RJ Lee Group Job No: LLH901997-22
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/11/2020

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos 5 μm

Client Sample Number	RJLG Sample Number	-----Structures 5 μm-----				-----Weight Percent----- Structures 5 μm Analytical Sensitivity Amphibole			
		Chry	Amph	Cleavage	Non-Asbestos	Chry	Asb	Cleavage Fragment	Non-Asbestos
6 - RH #6	3158828	0	0	4	0	<u>< 9.9E-5</u> 9.9E-5	<u>< 7.9E-5</u> 7.9E-5	<u>1.9E-1</u> 7.9E-5	<u>< 7.5E-5</u> 7.5E-5

NOTES

- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2 * 10⁻³ ng/ μ m³, density of chrysotile: 2.55 * 10⁻³ ng/ μ m³, density of non-asbestos: 3.00 * 10⁻³ ng/ μ m³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
- These results are submitted pursuant to RJ Lee Group'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 these results are used or interpreted.

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RJ Lee Group, Inc.

RJ Lee Group Job No: LLH901997-22
Client Job No/Name:

Final Laboratory Report (cont'd)

Client: K & L Gates
Report Date: 08/11/2020

Client Sample Number	RJLG Sample Number	Material Used (gm)	Area Analyzed Total (mm ²)	Area Analyzed 5 μm (mm ²)	Effective Filter Area (mm ²)	Dilution Factor
6 - RH #6	3158828	0.0001	0.30731	0.30731	1220	1.0

Authorized Signature: 
Ashleigh Sload, Scientist

NOTES

- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2×10^{-3} ng/μm³, density of chrysotile: 2.55×10^{-3} ng/μm³, density of non-asbestos: 3.00×10^{-3} ng/μm³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
- These results are submitted pursuant to RJ Lee Group'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 these results are used or interpreted.

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RJ Lee Group, Inc
LLH901997-22
3158828.HTA2

K & L Gates
6 - RH #6

29-Jul-20

Air volume:

Area of collection filter:

Volume flowrate:

Level of analysis (chrysotile):

NA

Level of analysis (amphibole):

AZQ

0

Magnification used for structure counting:

Aspect ratio for fibre definition:

3:1

Mean dimension of grid openings:

0.00878032

Initials of analyst:

JS

Number of grid openings examined:

35

Analytical sensitivity:

Number of primary asbestos structures:

73

Number of asbestos structures counted:

73

Number of asbestos structures >5 µm:

4

Number of fibres and bundles > 5 µm:

2

Number of PCM equivalent asbestos structures:

4

Number of PCM equivalent asbestos fibres:

2

TEM asbestos structure count					
Report Number:	LLH901997-22				
Sample Number:	3158828.HTA2		Sample Weight:	0.0001	
Sample Description:	6 - RH #6		Filter area (mm ²):	1220	
			Magnification:	10/20 KX	
			Grid opening dimension (mm ²)	0.00878032	
Preparation date:	06/5/20	By:	Mk		
Analysis date:	07/29/20	By:	JS	Level of analysis (chrysotile)	NA
Computer entry date:	08/9/20	By:	MMK	Level of analysis (amphibole)	AZQ

Grid	Grid Opening	Structures		Identification	Structure type	Length (µm)	Width (µm)	Fibre Type	Comments
		primary	total						
1	G2	1	1	AZQ	F	1.1	0.15	Actinolite	
		2	2	ADX	F	1.2	0.2	Actinolite	
		3	3	ADX	F	1.6	0.3	Actinolite	
		4	4	ADX	F	2.6	0.35	Actinolite	
	G4	5	5	ADX	F	4.8	0.6	Actinolite	
		6	6	ADX	F	1.25	0.15	Actinolite	
		7	7	ADX	F	4.8	0.6	Actinolite	
	G6	8	8	ADX	F	2.3	0.4	Actinolite	
		9	9	ADX	F	1.2	0.18	Actinolite	
		10	10	ADX	F	1.6	0.3	Actinolite	
		11	11	ADX	F	1.5	0.2	Actinolite	
		12	12	ADX	F	3.5	0.35	Actinolite	
		13	13	AZQ	F	4.3	0.5	Actinolite	
		14	14	ADX	F	3.9	0.4	Actinolite	
		15	15	ADX	F	1.2	0.2	Actinolite	
	G8	16	16	ADX	F	2.3	0.2	Actinolite	
		17	17	ADX	F	2.1	0.2	Actinolite	
		18	18	ADX	F	1.5	0.2	Actinolite	
		19	19	ADX	F	2.2	0.3	Actinolite	
		20	20	ADX	F	1.4	0.2	Actinolite	
		21	21	ADX	F	3.2	0.3	Actinolite	
		22	22	ADX	F	3.1	0.5	Actinolite	
	I8	23	23	ADX	F	0.8	0.12	Actinolite	
		24	24	ADX	F	2.45	0.45	Actinolite	
		25	25	AZQ	F	2.95	0.5	Actinolite	
		26	26	ADX	F	2.3	0.2	Actinolite	
		27	27	ADX	F	3.2	0.3	Actinolite	
		28	28	ADX	F	1.2	0.2	Actinolite	
		29		AZQ	MD11	7.3	2	Actinolite	
			29	AZQ	MF	6.8	0.55	Actinolite	
				NAM		2.5	0.5		
		30	30	ADX	F	1.8	0.3	Actinolite	
		31	31	ADX	F	1.6	0.3	Actinolite	
		32	32	ADX	F	1.6	0.05	Actinolite	
		33	33	ADX	F	3.4	0.4	Actinolite	
		34	34	ADX	F	2.5	0.3	Actinolite	
	B1			No Fibres					
	B3			No Fibres					
	B5			No Fibres					
	B7			No Fibres					
	B9			No Fibres					
	D9			No Fibres					

TEM asbestos structure count					
Report Number:	LLH901997-22				
Sample Number:	3158828.HTA2		Sample Weight:	0.0001	
Sample Description:	6 - RH #6		Filter area (mm ²):	1220	
			Magnification:	10/20 KX	
			Grid opening dimension (mm ²)	0.00878032	
Preparation date:	06/5/20	By:	Mk		
Analysis date:	07/29/20	By:	JS	Level of analysis (chrysotile)	NA
Computer entry date:	08/9/20	By:	MMK	Level of analysis (amphibole)	AZQ

Grid	Grid Opening	Structures		Identification	Structure type	Length (µm)	Width (µm)	Fibre Type	Comments
		primary	total						
	D7			No Fibres					
	D5			No Fibres					
	D3			No Fibres					
	D1			No Fibres					
	F1			No Fibres					
	F3			No Fibres					
	F7			No Fibres					
2	B1			No Fibres					
	B3			No Fibres					
	B5			No Fibres					
	B7			No Fibres					
	B9			No Fibres					
	D9			No Fibres					
	D7			No Fibres					
	D5			No Fibres					
	D3			No Fibres					
	D1			No Fibres					
	F1			No Fibres					
	F3	35	35	AZQ	F	7.2	0.95	Actinolite	
	H1	36	36	ADX	F	1.9	0.08	Actinolite	
		37	37	ADX	F	2.7	0.3	Actinolite	
		38	38	ADX	F	1.4	0.2	Actinolite	
		39	39	ADX	F	3.2	0.4	Actinolite	
		40	40	ADX	F	0.9	0.1	Actinolite	
		41	41	ADX	F	1.2	0.2	Actinolite	
	H3	42	42	ADX	F	0.9	0.1	Actinolite	
		43		ADX	MD11	8.8	2.1	Actinolite	
			43	ADX	MF	8.8	0.2	Actinolite	
		44	44	ADX	F	0.8	0.05	Actinolite	
		45	45	ADX	F	0.85	0.1	Actinolite	
		46	46	ADX	F	3.5	0.4	Actinolite	
		47	47	ADX	F	1.6	0.3	Actinolite	
		48	48	ADX	F	1.4	0.3	Actinolite	
		49	49	ADX	F	2.6	0.5	Actinolite	
		50	50	ADX	F	1.9	0.3	Actinolite	
	H5	51	51	ADX	F	1.7	0.3	Actinolite	
		52	52	ADX	F	1.7	0.05	Actinolite	
		53	53	ADX	F	1.6	0.05	Actinolite	
		54	54	ADX	F	1.9	0.05	Actinolite	
		55	55	AZQ	F	1.3	0.2	Actinolite	
		56	56	ADX	F	1.2	0.05	Actinolite	
		57	57	ADX	F	4.3	0.5	Actinolite	

TEM asbestos structure count					
Report Number:	LLH901997-22				
Sample Number:	3158828.HTA2		Sample Weight:	0.0001	
Sample Description:	6 - RH #6		Filter area (mm ²):	1220	
			Magnification:	10/20 KX	
			Grid opening dimension (mm ²):	0.00878032	
Preparation date:	06/5/20	By:	Mk		
Analysis date:	07/29/20	By:	JS	Level of analysis (chrysotile)	NA
Computer entry date:	08/9/20	By:	MMK	Level of analysis (amphibole)	AZQ

Grid	Grid Opening	Structures		Identification	Structure type	Length (µm)	Width (µm)	Fibre Type	Comments
		primary	total						
		58	58	ADX	F	5.7	0.8	Actinolite	
		59	59	ADX	F	2.3	0.4	Actinolite	
	H7	60	60	ADX	F	2.5	0.2	Actinolite	
		61	61	ADX	F	0.9	0.05	Actinolite	
		62	62	ADX	F	2.7	0.3	Actinolite	
		63	63	ADX	F	2.8	0.4	Actinolite	
		64	64	ADX	F	1.3	0.05	Actinolite	
		65	65	ADX	F	2.5	0.3	Actinolite	
		66	66	ADX	F	3.8	0.5	Actinolite	
		67	67	ADX	F	4.5	0.4	Actinolite	
	H9	68	68	AZQ	F	1.3	0.25	Actinolite	
		69	69	ADX	F	1.6	0.2	Actinolite	
		70	70	ADX	F	4.6	0.3	Actinolite	
		71	71	ADX	F	3.1	0.05	Actinolite	
		72	72	ADX	F	2.5	0.05	Actinolite	
		73	73	ADX	F	3.7	0.4	Actinolite	

Final Laboratory Report

TEM Bulk Protocol

Attention: David Raphael
K & L Gates
17 North Second Street
Harrisburg, PA 17101
US

Report Date: 08/04/2020
Sample Receipt Date:
RJ Lee Group Job No.: LLH901997-22
Authorization/P.O. No.:
Samples Received: 1
Client Job No.:

Method: EPA/R-93/600/116

TABLE 1 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos

Client Sample Number	RJLG Sample Number	Total Structures				-----Weight Percent----- Total Structures Analytical Sensitivity			
		Chry	Amph	Cleavage	Non Asbestos	Chry	Amph Asb	Amph Cleavage Fragment	Non Asbestos
7 - RH #7	3158829	0	28	98	0	< 1.2E-5 1.2E-5	2.3E0 1.5E-5	3.4E0 9.6E-6	< 9.0E-6 9.0E-6

NOTES

- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2×10^{-3} ng/ μ m³, density of chrysotile: 2.55×10^{-3} ng/ μ m³, density of non-asbestos: 3.00×10^{-3} ng/ μ m³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
- These results are submitted pursuant to RJ Lee Group'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 these results are used or interpreted.

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These results are submitted pursuant to RJ Lee Group's current terms and conditions of sale, including the company's standard warranty and limiting provisions and 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, RJ Lee Group will store the samples for a period of ninety (90) days before discarding. A shipping and handling fee will be assessed for the return of any sample.

RJ Lee Group Job No: LLH901997-22
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/04/2020

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos 5 μm

Client Sample Number	RJLG Sample Number	-----Structures 5 μm-----				-----Weight Percent----- Structures 5 μm Analytical Sensitivity			
		Chry	Amph	Cleavage	Non-Asbestos	Amphibole			
						Chry	Asb	Cleavage Fragment	Non-Asbestos
7 - RH #7	3158829	0	17	12	0	<u>< 1.2E-4</u> 1.2E-4	<u>2.3E0</u> 1.5E-4	<u>2.2E0</u> 9.6E-5	<u>< 9.0E-5</u> 9.0E-5

NOTES

- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2 * 10⁻³ ng/ μ m³, density of chrysotile: 2.55 * 10⁻³ ng/ μ m³, density of non-asbestos: 3.00 * 10⁻³ ng/ μ m³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
- These results are submitted pursuant to RJ Lee Group'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 these results are used or interpreted.

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RJ Lee Group, Inc.

RJ Lee Group Job No: LLH901997-22
Client Job No/Name:

Final Laboratory Report (cont'd)

Client: K & L Gates
Report Date: 08/04/2020

Client Sample Number	RJLG Sample Number	Material Used (gm)	Area Analyzed Total (mm ²)	Area Analyzed 5 μm (mm ²)	Effective Filter Area (mm ²)	Dilution Factor
7 - RH #7	3158829	0.0001	0.25463	0.25463	1220	1.0

Authorized Signature: 
Ashleigh Sload, Scientist

NOTES

- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2×10^{-3} ng/μm³, density of chrysotile: 2.55×10^{-3} ng/μm³, density of non-asbestos: 3.00×10^{-3} ng/μm³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
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RJL: LLH901997-22	3158829.HTA2	Microscope tem2000fx2	Grid Openings	4
7 - RH #7	K & L Gates	Magnification 21 KX	Asbestos	15.0
Wt: 0.0001 gm	Grid: 0.0088 mm ²	Acc. Voltage 120 KV	Asbestos >= 5µm	4.0
Dil: 1.	Filter Size: 47 mm	Operator: Jon Swope	Nonasbestos	91.0
HQ45440		Cv = 2.688	Nonasbestos >= 5µm	5.0
			% Wt of largest asbestos structure	%

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1	1	1.6	0.25	Amphibole		MgSiCaFe	15771D	Image1	Diff1	Acti	Cle
1	2	1.8	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
1	3	1.4	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
1	4	1.2	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
1	5	1.8	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
1	6	1.3	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
1	7	1.3	0.2	Amphibole	F	MgSiCaFe	15772D	Image2	Diff2	Acti	Asb
1	8	4.8	0.55	Amphibole		MgSiCaFe			X	Acti	Cle
1	9	1.5	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
1	10	2.6	0.4	Amphibole		MgSiCaFe			X	Acti	Cle
1	11	1.9	0.22	Amphibole		MgSiCaFe			X	Acti	Cle
1	12	6.3	0.1	Amphibole	F	MgSiCaFe			X	Acti	Asb
1	13	2.2	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
1	14	4.3	0.4	Amphibole		MgSiCaFe			X	Acti	Cle
1	15	3.4	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
1	16	7.6	0.5	Amphibole		MgSiCaFe			X	Acti	Cle
1	17	8.1	0.6	Amphibole		MgSiCaFe			X	Acti	Cle
1	18	1.7	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
1	19	1.3	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
1	20	8.5	0.2	Amphibole	F	MgSiCaFe			X	Acti	Asb
1	21	1.7	0.25	Amphibole		MgSiCaFe	15780D	Image3	Diff3	Acti	Cle
1	22	2.3	0.4	Amphibole		MgSiCaFe			X	Acti	Cle
1	23	3.6	0.4	Amphibole		MgSiCaFe			X	Acti	Cle
1	24	1.3	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
1	25	1.4	0.05	Amphibole	F	MgSiCaFe			X	Acti	Asb
1	26	3.2	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
2	1	4.3	0.1	Amphibole	F	MgSiCaFe			X	Acti	Asb
2	2	1.4	0.1	Amphibole	F	MgSiCaFe			X	Acti	Asb
2	3	2.3	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
2	4	1.3	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
2	5	1.95	0.35	Amphibole		MgSiCaFe	15773D	Image4	Diff4	Acti	Cle
2	6	2.3	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
2	7	1.9	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
2	8	3.5	0.4	Amphibole		MgSiCaFe			X	Acti	Cle
2	9	1.3	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
2	10	4.5	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
2	11	4.3	0.6	Amphibole		MgSiCaFe			X	Acti	Cle
2	12	1.4	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
2	13	1.2	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
2	14	2.5	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
2	15	3.7	0.4	Amphibole		MgSiCaFe			X	Acti	Cle
2	16	3.6	0.18	Amphibole	F	MgSiCaFe	15774D	Image5	Diff5	Acti	Asb
2	17	1.4	0.15	Amphibole		MgSiCaFe			X	Acti	Cle
2	18	1.5	0.2	Amphibole		MgSiCaFe			X	Acti	Cle

RJL: LLH901997-22	3158829.HTA2	Microscope tem2000fx2	Grid Openings	4
7 - RH #7	K & L Gates	Magnification 21 KX	Asbestos	15.0
Wt: 0.0001 gm	Grid: 0.0088 mm ²	Acc. Voltage 120 KV	Asbestos >= 5µm	4.0
Dil: 1.	Filter Size: 47 mm	Operator: Jon Swope	Nonasbestos	91.0
HQ45440		Cv = 2.688	Nonasbestos >= 5µm	5.0
			% Wt of largest asbestos structure	%

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
2	19	2.2	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
2	20	2.3	0.05	Amphibole	F	MgSiCaFe			X	Acti	Asb
2	21	2.1	0.4	Amphibole		MgSiCaFe			X	Acti	Cle
2	22	7.6	1.2	Amphibole		MgSiCaFe			X	Acti	Cle
2	23	1.2	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
2	24	1.7	0.05	Amphibole	F	MgSiCaFe			X	Acti	Asb
3	1	1.2	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
3	2	1.45	0.2	Amphibole		MgSiCaFe	15775D	Image6	Diff6	Acti	Cle
3	3	1.3	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
3	4	2.5	0.4	Amphibole		MgSiCaFe			X	Acti	Cle
3	5	3.4	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
3	6	3.4	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
3	7	3.9	0.5	Amphibole		MgSiCaFe			X	Acti	Cle
3	8	2.3	0.4	Amphibole		MgSiCaFe			X	Acti	Cle
3	9	4.1	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
3	10	12.4	0.9	Amphibole		MgSiCaFe			X	Acti	Cle
3	11	4.85	0.5	Amphibole		MgSiCaFe			X	Acti	Cle
3	12	1.2	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
3	13	3.8	0.4	Amphibole		MgSiCaFe			X	Acti	Cle
3	14	1.4	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
3	15	1.8	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
3	16	3.7	0.4	Amphibole		MgSiCaFe			X	Acti	Cle
3	17	1.7	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
3	18	1.4	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
3	19	2.6	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
3	20	2.2	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
3	21	5.8	0.15	Amphibole	F	MgSiCaFe	15776D	Image7	Diff7	Acti	Asb
3	22	2.5	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
3	23	3.6	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
3	24	5.2	0.5	Amphibole		MgSiCaFe			X	Acti	Cle
3	25	1.4	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
3	26	3.1	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
3	27	1.5	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
4	1	16.5	0.5	Amphibole	F	MgSiCaFe			X	Acti	Asb
4	2	3.2	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
4	3	2.1	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
4	4	2.65	0.06	Amphibole	F	MgSiCaFe	15777D	Image8	Diff8	Acti	Asb
4	5	3.2	0.5	Amphibole		MgSiCaFe			X	Acti	Cle
4	6	2.6	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
4	7	1.2	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
4	8	1.5	0.05	Amphibole	F	MgSiCaFe			X	Acti	Asb
4	9	2.6	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
4	10	1.3	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
4	11	4.3	0.5	Amphibole		MgSiCaFe			X	Acti	Cle

RJ Lee Group, Inc.
TEM Count Sheet

RJL: LLH901997-22	3158829.HTA2	Microscope tem2000fx2	Grid Openings	4
7 - RH #7	K & L Gates	Magnification 21 KX	Asbestos	15.0
Wt: 0.0001 gm	Grid: 0.0088 mm ²	Acc. Voltage 120 KV	Asbestos >= 5µm	4.0
Dil: 1.	Filter Size: 47 mm	Operator: Jon Swope	Nonasbestos	91.0
HQ45440		Cv = 2.688	Nonasbestos >= 5µm	5.0
			% Wt of largest asbestos structure	%

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
4	12	3.2	0.5	Amphibole		MgSiCaFe			X	Acti	Cle
4	13	2.1	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
4	14	1.85	0.25	Amphibole		MgSiCaFeAl	15778D	Image9	Diff9	Acti	Cle
4	15	1.2	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
4	16	2.3	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
4	17	2.7	0.4	Amphibole		MgSiCaFe			X	Acti	Cle
4	18	1.5	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
4	19	2.1	0.05	Amphibole	F	MgSiCaFeAl			X	Acti	Asb
4	20	2.4	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
4	21	2.1	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
4	22	1.9	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
4	23	1.3	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
4	24	1.05	0.2	Amphibole		MgSiCaFeAl	15779D	Image10	Diff10	Acti	Cle
4	25	1.4	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
4	26	2.3	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
4	27	3.2	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
4	28	1.5	0.05	Amphibole	F	MgSiCaFe			X	Acti	Asb
4	29	1.9	0.3	Amphibole		MgSiCaFe			X	Acti	Cle

18% Particulate

Analyst's Comments: N/A

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 7/31/2020 11:14:44 AM approve by Jon Swope

Final Review: 8/4/20 11:55 AM approve by Ashleigh Sload

RJL: LLH901997-22	3158829.HTA2	Microscope tem2000fx2	Grid Openings	25
7 - RH #7	K & L Gates	Magnification 10 KX	Asbestos	13.0
Wt: 0.0001 gm	Grid: 0.0088 mm ²	Acc. Voltage 120 KV	Nonasbestos	7.0
Dil: 1.	Filter Size: 47 mm	Operator: Jon Swope	% Wt of largest asbestos structure	%
HQ45440		Cv = 0.49		

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1	1	5.8	0.1	Amphibole	F	MgSiCaFe				Acti	Asb
2				NSD							
3				NSD							
4	1	6.3	0.1	Amphibole	F	MgSiCaFe	15770D	Image1	Diff1	Acti	Asb
4	2	11.7	1.4	Amphibole		MgSiCaFe			X	Acti	Cle
4	3	7.9	0.05	Amphibole	F	MgSiCaFe			X	Acti	Asb
5	1	8.5	0.1	Amphibole	F	MgSiCaFe			X	Acti	Asb
5	2	5.7	0.05	Amphibole	F	MgSiCaFe			X	Acti	Asb
6				NSD							
7				NSD							
8				NSD							
9	1	18.9	2.2	Amphibole	B	MgSiCaFe			X	Acti	Asb
10				NSD							
11	1	5.8	0.1	Amphibole	F	MgSiCaFe			X	Acti	Asb
11	2	6.8	0.5	Amphibole		MgSiCaFe			X	Acti	Cle
12				NSD							
13				NSD							
14	1	11.5	0.55	Amphibole	B	MgSiCaFe	15781D	Image2	Diff2	Acti	Asb
14	2	7.9	0.1	Amphibole	F	MgSiCaFe			X	Acti	Asb
15				NSD							
16				NSD							
17	1	5.6	0.4	Amphibole		MgSiCaFe			X	Acti	Cle
17	2	6.4	0.5	Amphibole		MgSiCaFe			X	Acti	Cle
18	1	5.4	0.1	Amphibole	F	MgSiCaFe			X	Acti	Asb
19				NSD							
20	1	19.7	1.5	Amphibole	B	MgSiCaFe			X	Acti	Asb
20	2	7.3	0.5	Amphibole		MgSiCaFe			X	Acti	Cle
21				NSD							
22	1	5.3	0.2	Amphibole	F	MgSiCaFe			X	Acti	Asb
23				NSD							
24				NSD							
25	1	12.6	2.1	Amphibole		MgSiCaFe			X	Acti	Cle
25	2	11.5	0.15	Amphibole	F	MgSiCaFe			X	Acti	Asb
25	3	6.6	0.5	Amphibole		MgSiCaFe			X	Acti	Cle

18% Particulate

Analyst's Comments: N/A

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 7/31/2020 8:35:10 AM approve by Jon Swope

Final Review: 8/4/20 11:56 AM approve by Ashleigh Sload

Final Laboratory Report

TEM Bulk Protocol

Attention: David Raphael
K & L Gates
17 North Second Street
Harrisburg, PA 17101
US

Report Date: 08/04/2020
Sample Receipt Date:
RJ Lee Group Job No.: LLH901997-22
Authorization/P.O. No.:
Samples Received: 1
Client Job No.:

Method: ISO 22262-2

TABLE 1 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos

Client Sample Number	RJLG Sample Number	<u>Total Structures</u>				-----Weight Percent----- <u>Total Structures</u> Analytical Sensitivity			
		Chry	Amph	Cleavage	Non Asbestos	Chry	Amph Asb	Amph Cleavage Fragment	Non Asbestos
7 - RH #7	3158829	0	28	98	0	<u>< 1.2E-5</u> 1.2E-5	<u>1.5E0</u> 9.6E-6	<u>3.4E0</u> 9.6E-6	<u>< 9.0E-6</u> 9.0E-6

NOTES

1. "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
2. Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
3. If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
4. Density of amphibole: 3.2×10^{-3} ng/ μ m³, density of chrysotile: 2.55×10^{-3} ng/ μ m³, density of non-asbestos: 3.00×10^{-3} ng/ μ m³.
5. Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
6. Samples will be held for 90 days and then disposed of per Federal regulations.
7. These results are submitted pursuant to RJ Lee Group'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 these results are used or interpreted.

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RJ Lee Group Job No: LLH901997-22
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/04/2020

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos 5 μm

Client Sample Number	RJLG Sample Number	-----Structures 5 μm-----				-----Weight Percent----- Structures 5 μm Analytical Sensitivity			
		Chry	Amph	Cleavage	Non-Asbestos	Amphibole			
						Chry	Asb	Cleavage Fragment	Non-Asbestos
7 - RH #7	3158829	0	17	12	0	<u>< 1.2E-4</u> 1.2E-4	<u>1.5E0</u> 9.6E-5	<u>2.2E0</u> 9.6E-5	<u>< 9.0E-5</u> 9.0E-5

NOTES

- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2 * 10⁻³ ng/ μ m³, density of chrysotile: 2.55 * 10⁻³ ng/ μ m³, density of non-asbestos: 3.00 * 10⁻³ ng/ μ m³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
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RJ Lee Group, Inc.

RJ Lee Group Job No: LLH901997-22
Client Job No/Name:

Final Laboratory Report (cont'd)

Client: K & L Gates
Report Date: 08/04/2020

Client Sample Number	RJLG Sample Number	Material Used (gm)	Area Analyzed Total (mm ²)	Area Analyzed 5 μm (mm ²)	Effective Filter Area (mm ²)	Dilution Factor
7 - RH #7	3158829	0.0001	0.25463	0.25463	1220	1.0

Authorized Signature: 
Ashleigh Sload, Scientist

NOTES

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- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2×10^{-3} ng/μm³, density of chrysotile: 2.55×10^{-3} ng/μm³, density of non-asbestos: 3.00×10^{-3} ng/μm³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
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RJ Lee Group, Inc
LLH901997-22
3158829.HTA2

K & L Gates
7 - RH #7

31-Jul-20

Air volume:

Area of collection filter:

Volume flowrate:

Level of analysis (chrysotile):

NA

Level of analysis (amphibole):

AZQ

0

Magnification used for structure counting:

Aspect ratio for fibre definition:

3:1

Mean dimension of grid openings:

0.00878032

Initials of analyst:

JS

Number of grid openings examined:

35

Analytical sensitivity:

Number of primary asbestos structures:

126

Number of asbestos structures counted:

126

Number of asbestos structures >5 µm:

29

Number of fibres and bundles > 5 µm:

29

Number of PCM equivalent asbestos structures:

16

Number of PCM equivalent asbestos fibres:

16

TEM asbestos structure count					
Report Number:	LLH901997-22				
Sample Number:	3158829.HTA2		Sample Weight:	0.0001	
Sample Description:	7 - RH #7		Filter area (mm ²):	1220	
			Magnification:	10/20 KX	
			Grid opening dimension (mm ²)	0.00878032	
Preparation date:	06/5/20	By:	Mk		
Analysis date:	07/31/20	By:	JS	Level of analysis (chrysotile)	NA
Computer entry date:	08/9/20	By:	MMK	Level of analysis (amphibole)	AZQ

Grid	Grid Opening	Structures		Identification	Structure type	Length (µm)	Width (µm)	Fibre Type	Comments
		primary	total						
1	H1	1	1	AZQ	F	1.6	0.25	Actinolite	
		2	2	ADX	F	1.8	0.3	Actinolite	
		3	3	ADX	F	1.4	0.2	Actinolite	
		4	4	ADX	F	1.2	0.2	Actinolite	
		5	5	ADX	F	1.8	0.2	Actinolite	
		6	6	ADX	F	1.3	0.2	Actinolite	
		7	7	AZQ	F	1.3	0.2	Actinolite	
		8	8	ADX	F	4.8	0.55	Actinolite	
		9	9	ADX	F	1.5	0.3	Actinolite	
		10	10	ADX	F	2.6	0.4	Actinolite	
		11	11	ADX	F	1.9	0.22	Actinolite	
		12	12	ADX	F	6.3	0.1	Actinolite	
		13	13	ADX	F	2.2	0.3	Actinolite	
		14	14	ADX	F	4.3	0.4	Actinolite	
		15	15	ADX	F	3.4	0.3	Actinolite	
		16	16	ADX	F	7.6	0.5	Actinolite	
		17	17	ADX	F	8.1	0.6	Actinolite	
		18	18	ADX	F	1.7	0.3	Actinolite	
		19	19	ADX	F	1.3	0.2	Actinolite	
		20	20	ADX	F	8.5	0.2	Actinolite	
		21	21	AZQ	F	1.7	0.25	Actinolite	
		22	22	ADX	F	2.3	0.4	Actinolite	
		23	23	ADX	F	3.6	0.4	Actinolite	
		24	24	ADX	F	1.3	0.2	Actinolite	
		25	25	ADX	F	1.4	0.05	Actinolite	
		26	26	ADX	F	3.2	0.2	Actinolite	
	H3	27	27	ADX	F	4.3	0.1	Actinolite	
		28	28	ADX	F	1.4	0.1	Actinolite	
		29	29	ADX	F	2.3	0.2	Actinolite	
		30	30	ADX	F	1.3	0.2	Actinolite	
		31	31	AZQ	F	1.95	0.35	Actinolite	
		32	32	ADX	F	2.3	0.3	Actinolite	
		33	33	ADX	F	1.9	0.3	Actinolite	
		34	34	ADX	F	3.5	0.4	Actinolite	
		35	35	ADX	F	1.3	0.2	Actinolite	
		36	36	ADX	F	4.5	0.3	Actinolite	
		37	37	ADX	F	4.3	0.6	Actinolite	
		38	38	ADX	F	1.4	0.2	Actinolite	
		39	39	ADX	F	1.2	0.2	Actinolite	
		40	40	ADX	F	2.5	0.3	Actinolite	
		41	41	ADX	F	3.7	0.4	Actinolite	
		42	42	AZQ	F	3.6	0.18	Actinolite	

TEM asbestos structure count					
Report Number:	LLH901997-22				
Sample Number:	3158829.HTA2		Sample Weight:	0.0001	
Sample Description:	7 - RH #7		Filter area (mm ²):	1220	
			Magnification:	10/20 KX	
			Grid opening dimension (mm ²)	0.00878032	
Preparation date:	06/5/20	By:	Mk		
Analysis date:	07/31/20	By:	JS	Level of analysis (chrysotile)	NA
Computer entry date:	08/9/20	By:	MMK	Level of analysis (amphibole)	AZQ

Grid	Grid Opening	Structures		Identification	Structure type	Length (µm)	Width (µm)	Fibre Type	Comments
		primary	total						
		43	43	ADX	F	1.4	0.15	Actinolite	
		44	44	ADX	F	1.5	0.2	Actinolite	
		45	45	ADX	F	2.2	0.2	Actinolite	
		46	46	ADX	F	2.3	0.05	Actinolite	
		47	47	ADX	F	2.1	0.4	Actinolite	
		48	48	ADX	F	7.6	1.2	Actinolite	
		49	49	ADX	F	1.2	0.2	Actinolite	
		50	50	ADX	F	1.7	0.05	Actinolite	
	B3	51	51	ADX	F	5.8	0.1	Actinolite	
	B5								
	B9								
	B7	52	52	AZQ	F	6.3	0.1	Actinolite	
		53	53	ADX	F	11.7	1.4	Actinolite	
		54	54	ADX	F	7.9	0.05	Actinolite	
	D9	55	55	ADX	F	8.5	0.1	Actinolite	
		56	56	ADX	F	5.7	0.05	Actinolite	
	D7								
	D5								
	D3								
	D1	57	57	ADX	F	18.9	2.2	Actinolite	
	F1								
	F3	58	58	ADX	F	5.8	0.1	Actinolite	
		59	59	ADX	F	6.8	0.5	Actinolite	
	F7								
	F9								
2	B1	60	60	ADX	F	11.5	0.55	Actinolite	
		61	61	ADX	F	7.9	0.1	Actinolite	
	B3								
	B5								
	B7	62	62	ADX	F	5.6	0.4	Actinolite	
		63	63	ADX	F	6.4	0.5	Actinolite	
	B9	64	64	ADX	F	5.4	0.1	Actinolite	
	D9								
	D7	65	65	ADX	F	19.7	1.5	Actinolite	
		66	66	ADX	F	7.3	0.5	Actinolite	
	D5								
	D3	67	67	ADX	F	5.3	0.2	Actinolite	
	D1								
	F1								
	F3	68	68	ADX	F	12.6	2.1	Actinolite	
		69	69	ADX	F	11.5	0.15	Actinolite	
		70	70	ADX	F	6.6	0.5	Actinolite	

TEM asbestos structure count					
Report Number:	LLH901997-22				
Sample Number:	3158829.HTA2		Sample Weight:	0.0001	
Sample Description:	7 - RH #7		Filter area (mm ²):	1220	
			Magnification:	10/20 KX	
			Grid opening dimension (mm ²)	0.00878032	
Preparation date:	06/5/20	By:	Mk		
Analysis date:	07/31/20	By:	JS	Level of analysis (chrysotile)	NA
Computer entry date:	08/9/20	By:	MMK	Level of analysis (amphibole)	AZQ

Grid	Grid Opening	Structures		Identification	Structure type	Length (µm)	Width (µm)	Fibre Type	Comments
		primary	total						
	H1	71	71	ADX	F	1.2	0.2	Actinolite	
		72	72	AZQ	F	1.45	0.2	Actinolite	
		73	73	ADX	F	1.3	0.2	Actinolite	
		74	74	ADX	F	2.5	0.4	Actinolite	
		75	75	ADX	F	3.4	0.3	Actinolite	
		76	76	ADX	F	3.4	0.2	Actinolite	
		77	77	ADX	F	3.9	0.5	Actinolite	
		78	78	ADX	F	2.3	0.4	Actinolite	
		79	79	ADX	F	4.1	0.3	Actinolite	
		80	80	ADX	F	12.4	0.9	Actinolite	
		81	81	ADX	F	4.85	0.5	Actinolite	
		82	82	ADX	F	1.2	0.2	Actinolite	
		83	83	ADX	F	3.8	0.4	Actinolite	
		84	84	ADX	F	1.4	0.2	Actinolite	
		85	85	ADX	F	1.8	0.3	Actinolite	
		86	86	ADX	F	3.7	0.4	Actinolite	
		87	87	ADX	F	1.7	0.3	Actinolite	
		88	88	ADX	F	1.4	0.2	Actinolite	
		89	89	ADX	F	2.6	0.3	Actinolite	
		90	90	ADX	F	2.2	0.3	Actinolite	
		91	91	AZQ	F	5.8	0.15	Actinolite	
		92	92	ADX	F	2.5	0.3	Actinolite	
		93	93	ADX	F	3.6	0.3	Actinolite	
		94	94	ADX	F	5.2	0.5	Actinolite	
		95	95	ADX	F	1.4	0.3	Actinolite	
		96	96	ADX	F	3.1	0.2	Actinolite	
		97	97	ADX	F	1.5	0.2	Actinolite	
	H3	98	98	ADX	F	16.5	0.5	Actinolite	
		99	99	ADX	F	3.2	0.3	Actinolite	
		100	100	ADX	F	2.1	0.2	Actinolite	
		101	101	AZQ	F	2.65	0.06	Actinolite	
		102	102	ADX	F	3.2	0.5	Actinolite	
		103	103	ADX	F	2.6	0.3	Actinolite	
		104	104	ADX	F	1.2	0.2	Actinolite	
		105	105	ADX	F	1.5	0.05	Actinolite	
		106	106	ADX	F	2.6	0.3	Actinolite	
		107	107	ADX	F	1.3	0.2	Actinolite	
		108	108	ADX	F	4.3	0.5	Actinolite	
		109	109	ADX	F	3.2	0.5	Actinolite	
		110	110	ADX	F	2.1	0.2	Actinolite	
		111	111	AZQ	F	1.85	0.25	Actinolite	
		112	112	ADX	F	1.2	0.2	Actinolite	

TEM asbestos structure count					
Report Number:	LLH901997-22				
Sample Number:	3158829.HTA2		Sample Weight:	0.0001	
Sample Description:	7 - RH #7		Filter area (mm ²):	1220	
			Magnification:	10/20 KX	
			Grid opening dimension (mm ²)	0.00878032	
Preparation date:	06/5/20	By:	Mk		
Analysis date:	07/31/20	By:	JS	Level of analysis (chrysotile)	NA
Computer entry date:	08/9/20	By:	MMK	Level of analysis (amphibole)	AZQ

Grid	Grid Opening	Structures		Identification	Structure type	Length (µm)	Width (µm)	Fibre Type	Comments
		primary	total						
		113	113	ADX	F	2.3	0.3	Actinolite	
		114	114	ADX	F	2.7	0.4	Actinolite	
		115	115	ADX	F	1.5	0.2	Actinolite	
		116	116	ADX	F	2.1	0.05	Actinolite	
		117	117	ADX	F	2.4	0.3	Actinolite	
		118	118	ADX	F	2.1	0.2	Actinolite	
		119	119	ADX	F	1.9	0.2	Actinolite	
		120	120	ADX	F	1.3	0.2	Actinolite	
		121	121	AZQ	F	1.05	0.2	Actinolite	
		122	122	ADX	F	1.4	0.2	Actinolite	
		123	123	ADX	F	2.3	0.2	Actinolite	
		124	124	ADX	F	3.2	0.3	Actinolite	
		125	125	ADX	F	1.5	0.05	Actinolite	
		126	126	ADX	F	1.9	0.3	Actinolite	

Final Laboratory Report

TEM Bulk Protocol

Attention: David Raphael
K & L Gates
17 North Second Street
Harrisburg, PA 17101
US

Report Date: 08/13/2020
Sample Receipt Date:
RJ Lee Group Job No.: LLH901997-23
Authorization/P.O. No.:
Samples Received: 1
Client Job No.:

Method: EPA/R-93/600/116

TABLE 1 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos

Client Sample Number	RJLG Sample Number	Total Structures				-----Weight Percent----- Total Structures Analytical Sensitivity			
		Chry	Amph	Cleavage	Non Asbestos	Chry	Amph Asb	Amph Cleavage Fragment	Non Asbestos
8 - RH #8	3158830	0	0	20	0	< 3.3E-6 3.3E-6	< 4.2E-6 4.2E-6	1.3E-1 2.6E-6	< 2.5E-6 2.5E-6

NOTES

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- Density of amphibole: 3.2×10^{-3} ng/ μ m³, density of chrysotile: 2.55×10^{-3} ng/ μ m³, density of non-asbestos: 3.00×10^{-3} ng/ μ m³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
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RJ Lee Group Job No: LLH901997-23
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/13/2020

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos 5 μm

Client Sample Number	RJLG Sample Number	-----Structures 5 μm-----				-----Weight Percent----- Structures 5 μm Analytical Sensitivity			
		Chry	Amph	Cleavage	Non-Asbestos	Amphibole			
						Chry	Asb	Cleavage Fragment	Non-Asbestos
8 - RH #8	3158830	0	0	3	0	<u>< 3.3E-5</u> 3.3E-5	<u>< 4.2E-5</u> 4.2E-5	<u>9.9E-2</u> 2.6E-5	<u>< 2.5E-5</u> 2.5E-5

NOTES

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- Density of amphibole: 3.2 * 10⁻³ ng/ μ m³, density of chrysotile: 2.55 * 10⁻³ ng/ μ m³, density of non-asbestos: 3.00 * 10⁻³ ng/ μ m³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
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RJ Lee Group, Inc.

RJ Lee Group Job No: LLH901997-23
Client Job No/Name:

Final Laboratory Report (cont'd)

Client: K & L Gates
Report Date: 08/13/2020

Client Sample Number	RJLG Sample Number	Material Used (gm)	Area Analyzed Total (mm ²)	Area Analyzed 5 μm (mm ²)	Effective Filter Area (mm ²)	Dilution Factor
8 - RH #8	3158830	0.0003	0.30731	0.30731	1220	1.0

Authorized Signature: 
Ashleigh Sload, Scientist

NOTES

- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2×10^{-3} ng/μm³, density of chrysotile: 2.55×10^{-3} ng/μm³, density of non-asbestos: 3.00×10^{-3} ng/μm³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
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RJL: LLH901997-23	3158830.HTA1	Microscope tem2000fx2	Grid Openings	10
8 - RH #8	K & L Gates	Magnification 21 KX	Asbestos	0.0
Wt: 0.0003 gm	Grid: 0.0088 mm ²	Acc. Voltage 120 KV	Asbestos >= 5µm	0.0
Dil: 1.0	Filter Size: 47 mm	Operator: Jon Swope	Nonasbestos	18.0
HQ45446		Cv = 0	Nonasbestos >= 5µm	1.0
			% Wt of largest asbestos structure	%

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1				NSD							
2	1	1.25	0.25	Amphibole		MgSiCaFeAl	15867D	Image4	Diff3	Acti	Cle
2	2	1.3	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
3	1	2.5	0.4	Amphibole		MgSiCaFe			X	Acti	Cle
3	2	2.4	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
4	1	2.3	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
4	2	1.7	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
5	1	2.6	0.5	Amphibole		MgSiCaFe			X	Acti	Cle
5	2	2.1	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
6	1	1.4	0.22	Amphibole		MgSiCaFe			X	Acti	Cle
7	1	6.5	1.1	Amphibole		MgSiCaFe			X	Acti	Cle
7	2	1.3	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
7	3	1.6	0.3	Amphibole		MgSiCaFeAl	15868D	Image5	Diff4	Acti	Cle
8	1	2.6	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
9	1	2.7	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
9	2	1.55	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
9	3	3.6	0.4	Amphibole		MgSiCaFe			X	Acti	Cle
10	1	1.7	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
10	2	4.6	0.4	Amphibole		MgSiCaFe			X	Acti	Cle

10% Particulate

Analyst's Comments: N/A

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 8/4/2020 8:51:05 AM approve by Jacquelyn Mershon

Final Review: 8/13/20 10:05 AM approve by Ashleigh Sload

RJL: LLH901997-23	3158830.HTA1	Microscope tem2000fx2	Grid Openings	25
8 - RH #8	K & L Gates	Magnification 10 KX	Asbestos	0.0
Wt: 0.0003 gm	Grid: 0.0088 mm ²	Acc. Voltage 120 KV	Nonasbestos	2.0
Dil: 1.0	Filter Size: 47 mm	Operator: Jon Swope	% Wt of largest asbestos structure	%
HQ45446		Cv = 0		

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1	1	10.1	1.1	Amphibole		MgSiCaFeAl	15869D	Image2	Diff2	Acti	Cle
2				NSD							
3				NSD							
4				NSD							
5				NSD							
6				NSD							
7				NSD							
8				NSD							
9				NSD							
10				NSD							
11				NSD							
12				NSD							
13				NSD							
14				NSD							
15				NSD							
16				NSD							
17				NSD							
18				NSD							
19				NSD							
20				NSD							
21	1	6.5	0.6	Amphibole		MgSiCaFe			X	Acti	Cle
22				NSD							
23				NSD							
24				NSD							
25				NSD							

10% Particulate

Analyst's Comments: N/A

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 8/4/2020 9:17:14 AM approve by Jacquelyn Mershon

Final Review: 8/13/20 10:05 AM approve by Ashleigh Sload

Final Laboratory Report

TEM Bulk Protocol

Attention: David Raphael
K & L Gates
17 North Second Street
Harrisburg, PA 17101
US

Report Date: 08/13/2020
Sample Receipt Date:
RJ Lee Group Job No.: LLH901997-23
Authorization/P.O. No.:
Samples Received: 1
Client Job No.:

Method: ISO 22262-2

TABLE 1 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos

Client Sample Number	RJLG Sample Number	Total Structures				-----Weight Percent----- Total Structures Analytical Sensitivity			
		Chry	Amph	Cleavage	Non Asbestos	Chry	Amph Asb	Amph Cleavage Fragment	Non Asbestos
8 - RH #8	3158830	0	0	20	0	< 3.3E-6 3.3E-6	< 2.6E-6 2.6E-6	1.3E-1 2.6E-6	< 2.5E-6 2.5E-6

NOTES

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- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2×10^{-3} ng/ μ m³, density of chrysotile: 2.55×10^{-3} ng/ μ m³, density of non-asbestos: 3.00×10^{-3} ng/ μ m³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
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RJ Lee Group Job No: LLH901997-23
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/13/2020

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos 5 μm

Client Sample Number	RJLG Sample Number	-----Structures 5 μm-----				-----Weight Percent----- Structures 5 μm Analytical Sensitivity Amphibole			
		Chry	Amph	Cleavage	Non-Asbestos	Chry	Asb	Cleavage Fragment	Non-Asbestos
8 - RH #8	3158830	0	0	3	0	<u>< 3.3E-5</u> 3.3E-5	<u>< 2.6E-5</u> 2.6E-5	<u>9.9E-2</u> 2.6E-5	<u>< 2.5E-5</u> 2.5E-5

NOTES

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- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2 * 10⁻³ ng/ μ m³, density of chrysotile: 2.55 * 10⁻³ ng/ μ m³, density of non-asbestos: 3.00 * 10⁻³ ng/ μ m³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
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RJ Lee Group, Inc.

RJ Lee Group Job No: LLH901997-23
Client Job No/Name:

Final Laboratory Report (cont'd)

Client: K & L Gates
Report Date: 08/13/2020

Client Sample Number	RJLG Sample Number	Material Used (gm)	Area Analyzed Total (mm ²)	Area Analyzed 5 μm (mm ²)	Effective Filter Area (mm ²)	Dilution Factor
8 - RH #8	3158830	0.0003	0.30731	0.30731	1220	1.0

Authorized Signature: 
Ashleigh Sload, Scientist

NOTES

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- Density of amphibole: 3.2×10^{-3} ng/μm³, density of chrysotile: 2.55×10^{-3} ng/μm³, density of non-asbestos: 3.00×10^{-3} ng/μm³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
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RJ Lee Group, Inc
LLH901997-23
3158830.HTA1

K & L Gates
8 - RH #8

04-Aug-20

Air volume:
Area of collection filter:
Volume flowrate:
Level of analysis (chrysotile): NA
Level of analysis (amphibole): AZQ
Magnification used for structure counting:
Aspect ratio for fibre definition: 3:1
Mean dimension of grid openings: 0.00878032
Initials of analyst: JM
Number of grid openings examined: 35
Analytical sensitivity:
Number of primary asbestos structures: 20
Number of asbestos structures counted: 20
Number of asbestos structures >5 µm: 3
Number of fibres and bundles > 5 µm: 3
Number of PCM equivalent asbestos structures: 3
Number of PCM equivalent asbestos fibres: 3

TEM asbestos structure count					
Report Number:	LLH901997-23				
Sample Number:	3158830.HTA1		Sample Weight:	0.0003	
Sample Description:	8 - RH #8		Filter area (mm ²):	1220	
			Magnification:	10/20 KX	
			Grid opening dimension (mm ²):	0.00878032	
Preparation date:	06/9/20	RAM	RAM		
Analysis date:	08/4/20	By:	JM	Level of analysis (chrysotile)	NA
Computer entry date:	08/9/20	By:	MMK	Level of analysis (amphibole)	AZQ

Grid	Grid Opening	Structures		Identification	Structure type	Length (µm)	Width (µm)	Fibre Type	Comments
		primary	total						
1	H1			No Fibres					
	H3	1	1	AZQ	F	1.25	0.25	Actinolite	
		2	2	ADX	F	1.3	0.2	Actinolite	
	H5	3	3	ADX	F	2.5	0.4	Actinolite	
		4	4	ADX	F	2.4	0.3	Actinolite	
	H7	5	5	ADX	F	2.6	0.2	Actinolite	
		6	6	ADX	F	1.7	0.3	Actinolite	
	H9	7	7	ADX	F	2.6	0.5	Actinolite	
		8	8	ADX	F	2.1	0.2	Actinolite	
2	H1	9	9	ADX	F	1.4	0.22	Actinolite	
	H3	10	10	ADX	F	6.5	1.1	Actinolite	
		11	11	ADX	F	1.3	0.2	Actinolite	
		12	12	AZQ	F	1.6	0.3	Actinolite	
	H5	13	13	ADX	F	2.6	0.3	Actinolite	
	H7	14	14	ADX	F	2.7	0.3	Actinolite	
		15	15	ADX	F	1.55	0.2	Actinolite	
		16	16	ADX	F	3.6	0.4	Actinolite	
	H9	17	17	ADX	F	1.7	0.2	Actinolite	
		18	18	ADX	F	4.6	0.4	Actinolite	
1	B1	19	19	AZQ	F	10.1	1.1	Actinolite	
	B3			No Fibres					
	B5			No Fibres					
	B7			No Fibres					
	B9			No Fibres					
	D9			No Fibres					
	D7			No Fibres					
	D5			No Fibres					
	D3			No Fibres					
	D1			No Fibres					
	F1			No Fibres					
	F3			No Fibres					
	F7			No Fibres					
2	B1			No Fibres					
	B3			No Fibres					
	B5			No Fibres					
	B7			No Fibres					
	B9			No Fibres					
	D9			No Fibres					
	D7			No Fibres					
	D5	20	20	ADX	F	6.5	0.6	Actinolite	
	D3			No Fibres					
	D1			No Fibres					

TEM asbestos structure count					
Report Number:	LLH901997-23				
Sample Number:	3158830.HTA1		Sample Weight:	0.0003	
Sample Description:	8 - RH #8		Filter area (mm ²):	1220	
			Magnification:	10/20 KX	
			Grid opening dimension (mm ²):	0.00878032	
Preparation date:	06/9/20	RAM	RAM		
Analysis date:	08/4/20	By:	JM	Level of analysis (chrysotile)	NA
Computer entry date:	08/9/20	By:	MMK	Level of analysis (amphibole)	AZQ

Grid	Grid Opening	Structues		Identification	Structure type	Length (µm)	Width (µm)	Fibre Type	Comments
		primary	total						
	F1			No Fibres					
	F3			No Fibres					

Final Laboratory Report

TEM Bulk Protocol

Attention: David Raphael
K & L Gates
17 North Second Street
Harrisburg, PA 17101
US

Report Date: 08/13/2020
Sample Receipt Date:
RJ Lee Group Job No.: LLH901997-23
Authorization/P.O. No.:
Samples Received: 1
Client Job No.:

Method: EPA/R-93/600/116

TABLE 1 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos

Client Sample Number	RJLG Sample Number	Total Structures				-----Weight Percent----- Total Structures Analytical Sensitivity			
		Chry	Amph	Cleavage	Non Asbestos	Chry	Amph Asb	Amph Cleavage Fragment	Non Asbestos
9 - RH #10	3158831	0	0	14	3	< 2.5E-6 2.5E-6	< 3.1E-6 3.1E-6	6.9E-3 2.0E-6	2.5E-3 1.9E-6

NOTES

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- Density of amphibole: 3.2×10^{-3} ng/ μ m³, density of chrysotile: 2.55×10^{-3} ng/ μ m³, density of non-asbestos: 3.00×10^{-3} ng/ μ m³.
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RJ Lee Group Job No: LLH901997-23
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/13/2020

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos 5 μm

Client Sample Number	RJLG Sample Number	-----Structures 5 μm-----				-----Weight Percent----- Structures 5 μm Analytical Sensitivity			
		Chry	Amph	Cleavage	Non-Asbestos	Chry	Asb	Cleavage Fragment	Non-Asbestos
9 - RH #10	3158831	0	0	0	0	<u>< 2.5E-5</u> 2.5E-5	<u>< 3.1E-5</u> 3.1E-5	<u>< 2.0E-5</u> 2.0E-5	<u>< 1.9E-5</u> 1.9E-5

NOTES

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- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
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RJ Lee Group, Inc.

RJ Lee Group Job No: LLH901997-23
Client Job No/Name:

Final Laboratory Report (cont'd)

Client: K & L Gates
Report Date: 08/13/2020

Client Sample Number	RJLG Sample Number	Material Used (gm)	Area Analyzed Total (mm ²)	Area Analyzed 5 μm (mm ²)	Effective Filter Area (mm ²)	Dilution Factor
9 - RH #10	3158831	0.0004	0.30731	0.30731	1220	1.0

Authorized Signature: 
Ashleigh Sload, Scientist

NOTES

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- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
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RJL: LLH901997-23	3158831.HTA2	Microscope tem2000fx2	Grid Openings	10
9 - RH #10	K & L Gates	Magnification 21 KX	Asbestos	0.0
Wt: 0.0004 gm	Grid: 0.0088 mm ²	Acc. Voltage 120 KV	Asbestos >= 5µm	0.0
Dil: 1.	Filter Size: 47 mm	Operator: Jon Swope	Nonasbestos	17.0
HQ45446		Cv = 0	Nonasbestos >= 5µm	0.0
			% Wt of largest asbestos structure	%

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1	1	0.95	0.2	Non-Asbestos		MgAlSiFeCa	16650D	Image6	Diff5		
1	2	1.2	0.2	Amphibole		MgSiCaFeAl	16651D	Image7	Diff6	Acti	Cle
2	1	2.3	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
2	2	1.2	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
3	1	1.8	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
3	2	1.5	0.22	Amphibole		MgSiCaFe			X	Acti	Cle
3	3	1.4	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
4	1	2.1	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
5	1	1.3	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
5	2	1.3	0.18	Amphibole		MgSiCaFe			X	Acti	Cle
6	1	1.2	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
7	1	2.2	0.4	Non-Asbestos		MgAlSiFeCa			X		
7	2	1.25	0.25	Non-Asbestos		MgSiFeAlCa	16652D	Image8	Diff7	OPX	
8	1	1.2	0.2	Amphibole		MgSiCaFe				Acti	Cle
9	1	1.7	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
9	2	1.5	0.22	Amphibole		MgSiCaFe			X	Acti	Cle
10	1	2.2	0.3	Amphibole		MgSiCaFeAl	16653D	Image9 Image10	Diff8	Acti	Cle

10% Particulate

Analyst's Comments: N/A

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 8/4/2020 11:21:32 AM approve by Jacquelyn Mershon

Final Review: 8/13/20 10:17 AM approve by Ashleigh Sload

RJL: LLH901997-23	3158831.HTA2	Microscope tem2000fx2	Grid Openings	25
9 - RH #10	K & L Gates	Magnification 10 KX	Asbestos	0.0
Wt: 0.0004 gm	Grid: 0.0088 mm ²	Acc. Voltage 120 KV	Nonasbestos	0.0
Dil: 1.	Filter Size: 47 mm	Operator: Jon Swope	% Wt of largest asbestos structure	%
HQ45446		Cv = 0		

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1				NSD							
2				NSD							
3				NSD							
4				NSD							
5				NSD							
6				NSD							
7				NSD							
8				NSD							
9				NSD							
10				NSD							
11				NSD							
12				NSD							
13				NSD							
14				NSD							
15				NSD							
16				NSD							
17				NSD							
18				NSD							
19				NSD							
20				NSD							
21				NSD							
22				NSD							
23				NSD							
24				NSD							
25				NSD							

10% Particulate

Analyst's Comments: N/A

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 8/4/2020 12:16:12 PM approve by Jacquelyn Mershon

Final Review: 8/13/20 10:18 AM approve by Ashleigh Sload

Final Laboratory Report

TEM Bulk Protocol

Attention: David Raphael
K & L Gates
17 North Second Street
Harrisburg, PA 17101
US

Report Date: 08/13/2020
Sample Receipt Date:
RJ Lee Group Job No.: LLH901997-23
Authorization/P.O. No.:
Samples Received: 1
Client Job No.:

Method: ISO 22262-2

TABLE 1 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos

Client Sample Number	RJLG Sample Number	Total Structures				-----Weight Percent----- Total Structures Analytical Sensitivity			
		Chry	Amph	Cleavage	Non Asbestos	Chry	Amph Asb	Amph Cleavage Fragment	Non Asbestos
9 - RH #10	3158831	0	0	14	3	< 2.5E-6 2.5E-6	< 2.0E-6 2.0E-6	6.9E-3 2.0E-6	2.5E-3 1.9E-6

NOTES

- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2×10^{-3} ng/ μ m³, density of chrysotile: 2.55×10^{-3} ng/ μ m³, density of non-asbestos: 3.00×10^{-3} ng/ μ m³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
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RJ Lee Group Job No: LLH901997-23
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/13/2020

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos 5 μm

Client Sample Number	RJLG Sample Number	-----Structures 5 μm-----				-----Weight Percent----- Structures 5 μm Analytical Sensitivity			
		Chry	Amph	Cleavage	Non-Asbestos	Chry	Asb	Cleavage Fragment	Non-Asbestos
9 - RH #10	3158831	0	0	0	0	<u>< 2.5E-5</u> 2.5E-5	<u>< 2.0E-5</u> 2.0E-5	<u>< 2.0E-5</u> 2.0E-5	<u>< 1.9E-5</u> 1.9E-5

NOTES

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RJ Lee Group, Inc.

RJ Lee Group Job No: LLH901997-23
Client Job No/Name:

Final Laboratory Report (cont'd)

Client: K & L Gates
Report Date: 08/13/2020

Client Sample Number	RJLG Sample Number	Material Used (gm)	Area Analyzed Total (mm ²)	Area Analyzed 5 μm (mm ²)	Effective Filter Area (mm ²)	Dilution Factor
9 - RH #10	3158831	0.0004	0.30731	0.30731	1220	1.0

Authorized Signature: 
Ashleigh Sload, Scientist

NOTES

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- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
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RJ Lee Group, Inc
LLH901997-23
3158831.HTA2

K & L Gates
9 - RH #10

04-Aug-20

Air volume:
Area of collection filter:
Volume flowrate:
Level of analysis (chrysotile): NA
Level of analysis (amphibole): AZQ
Magnification used for structure counting:
Aspect ratio for fibre definition: 3:1
Mean dimension of grid openings: 0.00878032
Initials of analyst: JM
Number of grid openings examined: 35
Analytical sensitivity:
Number of primary asbestos structures: 15
Number of asbestos structures counted: 15
Number of asbestos structures >5 µm: 0
Number of fibres and bundles > 5 µm: 0
Number of PCM equivalent asbestos structures: 0
Number of PCM equivalent asbestos fibres: 0

TEM asbestos structure count					
Report Number:	LLH901997-23				
Sample Number:	3158831.HTA2		Sample Weight:	0.0003	
Sample Description:	9 - RH #10		Filter area (mm ²):	1220	
			Magnification:	10/20 KX	
			Grid opening dimension (mm ²)	0.00878032	
Preparation date:	06/9/20	RAM	RAM		
Analysis date:	08/4/20	By:	JM	Level of analysis (chrysotile)	NA
Computer entry date:	08/9/20	By:	MMK	Level of analysis (amphibole)	AZQ

Grid	Grid Opening	Structures		Identification	Structure type	Length (µm)	Width (µm)	Fibre Type	Comments
		primary	total						
1	G3			NAM		0.95	0.2		
		1	1	AZQ	F	1.2	0.2	Actinolite	
		2	2	ADX	F	2.3	0.2	Actinolite	
	G5	3	3	ADX	F	1.2	0.2	Actinolite	
		4	4	ADX	F	1.8	0.3	Actinolite	
	G7	5	5	ADX	F	1.5	0.22	Actinolite	
		6	6	ADX	F	1.4	0.2	Actinolite	
		7	7	ADX	F	2.1	0.3	Actinolite	
	I8	8	8	ADX	F	1.3	0.2	Actinolite	
		9	9	ADX	F	1.3	0.18	Actinolite	
	B2			No Fibres					
	B4			No Fibres					
	B6			No Fibres					
	B8			No Fibres					
	B10			No Fibres					
	D10			No Fibres					
	D8			No Fibres					
	D5			No Fibres					
	D3			No Fibres					
	D1			No Fibres					
	F1			No Fibres					
	F3			No Fibres					
	F7			No Fibres					
2	H1	10	10	ADX	F	1.2	0.2	Actinolite	
	H3	11	11	ADX	F	2.2	0.4	Actinolite	
				NAM		1.25	0.25		
	H5	12	12	ADX	F	1.2	0.2	Actinolite	
	H7	13	13	ADX	F	1.7	0.3	Actinolite	
		14	14	ADX	F	1.5	0.22	Actinolite	
	H9	15	15	AZQ	F	2.2	0.3	Actinolite	
	B1			No Fibres					
	B3			No Fibres					
	B5			No Fibres					
	B7			No Fibres					
	B9			No Fibres					
	D10			No Fibres					
	D8			No Fibres					
	D6			No Fibres					
	D4			No Fibres					
	D2			No Fibres					
	F1			No Fibres					
	F3			No Fibres					

Final Laboratory Report

TEM Bulk Protocol

Attention: David Raphael
K & L Gates
17 North Second Street
Harrisburg, PA 17101
US

Report Date: 08/11/2020
Sample Receipt Date:
RJ Lee Group Job No.: LLH901997-23
Authorization/P.O. No.:
Samples Received: 1
Client Job No.:

Method: EPA/R-93/600/116

TABLE 1 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos

Client Sample Number	RJLG Sample Number	<u>Total Structures</u>				-----Weight Percent----- <u>Total Structures</u> Analytical Sensitivity			
		Chry	Amph	Cleavage	Non Asbestos	Chry	Amph Asb	Amph Cleavage Fragment	Non Asbestos
10 - RH #11	3158832	0	0	5	1	< 3.3E-6 3.3E-6	< 4.2E-6 4.2E-6	4.2E-2 2.6E-6	5.6E-5 2.5E-6

NOTES

1. "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
2. Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
3. If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
4. Density of amphibole: 3.2×10^{-3} ng/ μ m³, density of chrysotile: 2.55×10^{-3} ng/ μ m³, density of non-asbestos: 3.00×10^{-3} ng/ μ m³.
5. Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
6. Samples will be held for 90 days and then disposed of per Federal regulations.
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RJ Lee Group Job No: LLH901997-23
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/11/2020

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos 5 μm

Client Sample Number	RJLG Sample Number	-----Structures 5 μm-----				-----Weight Percent----- Structures 5 μm Analytical Sensitivity Amphibole			
		Chry	Amph	Cleavage	Non-Asbestos	Chry	Asb	Cleavage Fragment	Non-Asbestos
10 - RH #11	3158832	0	0	2	0	<u>< 3.3E-5</u> 3.3E-5	<u>< 4.2E-5</u> 4.2E-5	<u>2.8E-2</u> 2.6E-5	<u>< 2.5E-5</u> 2.5E-5

NOTES

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RJ Lee Group, Inc.

RJ Lee Group Job No: LLH901997-23
Client Job No/Name:

Final Laboratory Report (cont'd)

Client: K & L Gates
Report Date: 08/11/2020

Client Sample Number	RJLG Sample Number	Material Used (gm)	Area Analyzed Total (mm ²)	Area Analyzed 5 μm (mm ²)	Effective Filter Area (mm ²)	Dilution Factor
10 - RH #11	3158832	0.0003	0.30731	0.30731	1220	1.0

Authorized Signature: 
Ashleigh Sload, Scientist

NOTES

- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
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- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
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RJL: LLH901997-23	3158832.HTA2	Microscope tem2000fx2	Grid Openings	10
10 - RH #11	K & L Gates	Magnification 21 KX	Asbestos	0.0
Wt: 0.0003 gm	Grid: 0.0088 mm ²	Acc. Voltage 120 KV	Asbestos >= 5µm	0.0
Dil: 1.	Filter Size: 47 mm	Operator: Jon Swope	Nonasbestos	4.0
HQ45446		Cv = 0	Nonasbestos >= 5µm	0.0
			% Wt of largest asbestos structure	%

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1	1	2.9	0.5	Amphibole		MgSiFeAlCa	15800D	Image1	Diff1 Diff2	Anth	Cle
2	1	2.6	0.3	Amphibole		MgSiCaFeAl	15801D	Image2	Diff3	Acti	Cle
3				NSD							
4				NSD							
5				NSD							
6	1	3.9	0.5	Amphibole		MgSiCaFe			X	Acti	Cle
7				NSD							
8				NSD							
9				NSD							
10	1	3.3	0.05	Non-Asbestos		SiAlCaMgF	15802D	Image3	X		

12% Particulate

Analyst's Comments: N/A

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 8/4/2020 11:32:07 AM approve by Jon Swope

Final Review: 8/11/20 7:15 AM approve by Ashleigh Sload

RJL: LLH901997-23	3158832.HTA2	Microscope tem2000fx2	Grid Openings	25
10 - RH #11	K & L Gates	Magnification 10 KX	Asbestos	0.0
Wt: 0.0003 gm	Grid: 0.0088 mm ²	Acc. Voltage 120 KV	Nonasbestos	2.0
Dil: 1.	Filter Size: 47 mm	Operator: Jon Swope	% Wt of largest asbestos structure	%
HQ45446		Cv = 0		

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1				NSD							
2				NSD							
3				NSD							
4	1	8.6	0.95	Amphibole		MgSiCaFeAl	15803D	Image1	Diff1	Acti	Cle
5				NSD							
6				NSD							
7				NSD							
8				NSD							
9				NSD							
10				NSD							
11				NSD							
12				NSD							
13				NSD							
14				NSD							
15				NSD							
16				NSD							
17				NSD							
18				NSD							
19				NSD							
20				NSD							
21	1	7.3	0.5	Amphibole		MgSiCaFe			X	Acti	Cle
22				NSD							
23				NSD							
24				NSD							
25				NSD							

12% Particulate

Analyst's Comments: N/A

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 8/4/2020 11:44:59 AM approve by Jon Swope

Final Review: 8/11/20 7:16 AM approve by Ashleigh Sload

Final Laboratory Report

TEM Bulk Protocol

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US

Report Date: 08/11/2020
Sample Receipt Date:
RJ Lee Group Job No.: LLH901997-23
Authorization/P.O. No.:
Samples Received: 1
Client Job No.:

Method: ISO 22262-2

TABLE 1 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos

Client Sample Number	RJLG Sample Number	Total Structures				-----Weight Percent----- Total Structures Analytical Sensitivity			
		Chry	Amph	Cleavage	Non Asbestos	Chry	Amph Asb	Amph Cleavage Fragment	Non Asbestos
10 - RH #11	3158832	0	0	5	1	< 3.3E-6 3.3E-6	< 2.6E-6 2.6E-6	4.2E-2 2.6E-6	5.6E-5 2.5E-6

NOTES

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RJ Lee Group Job No: LLH901997-23
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/11/2020

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos 5 μm

Client Sample Number	RJLG Sample Number	-----Structures 5 μm-----				-----Weight Percent----- Structures 5 μm Analytical Sensitivity			
		Chry	Amph	Cleavage	Non-Asbestos	Amphibole			
						Chry	Asb	Cleavage Fragment	Non-Asbestos
10 - RH #11	3158832	0	0	2	0	<u>< 3.3E-5</u> 3.3E-5	<u>< 2.6E-5</u> 2.6E-5	<u>2.8E-2</u> 2.6E-5	<u>< 2.5E-5</u> 2.5E-5

NOTES

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- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2 * 10⁻³ ng/ μ m³, density of chrysotile: 2.55 * 10⁻³ ng/ μ m³, density of non-asbestos: 3.00 * 10⁻³ ng/ μ m³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
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RJ Lee Group, Inc.

RJ Lee Group Job No: LLH901997-23
Client Job No/Name:

Final Laboratory Report (cont'd)

Client: K & L Gates
Report Date: 08/11/2020

Client Sample Number	RJLG Sample Number	Material Used (gm)	Area Analyzed Total (mm ²)	Area Analyzed 5 μm (mm ²)	Effective Filter Area (mm ²)	Dilution Factor
10 - RH #11	3158832	0.0003	0.30731	0.30731	1220	1.0

Authorized Signature: 
Ashleigh Sload, Scientist

NOTES

- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2×10^{-3} ng/μm³, density of chrysotile: 2.55×10^{-3} ng/μm³, density of non-asbestos: 3.00×10^{-3} ng/μm³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
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RJ Lee Group, Inc
LLH901997-23
3158832.HTA2

K & L Gates
10 - RH #11

04-Aug-20

Air volume:
Area of collection filter:
Volume flowrate:
Level of analysis (chrysotile): NA
Level of analysis (amphibole): AZZQ
Magnification used for structure counting:
Aspect ratio for fibre definition: 3:1
Mean dimension of grid openings: 0.00878032
Initials of analyst: JS
Number of grid openings examined: 35
Analytical sensitivity:
Number of primary asbestos structures: 5
Number of asbestos structures counted: 5
Number of asbestos structures >5 µm: 2
Number of fibres and bundles > 5 µm: 2
Number of PCM equivalent asbestos structures: 2
Number of PCM equivalent asbestos fibres: 2

TEM asbestos structure count					
Report Number:	LLH901997-23				
Sample Number:	3158832.HTA2			Sample Weight:	0.0003
Sample Description:	10 - RH #11			Filter area (mm ²):	1220
				Magnification:	10/20 KX
				Grid opening dimension (mm ²)	0.00878032
Preparation date:	06/9/20	RAM	RAM		
Analysis date:	08/4/20	By:	JS	Level of analysis (chrysotile)	NA
Computer entry date:	08/9/20	By:	MMK	Level of analysis (amphibole)	AZZQ

Grid	Grid Opening	Structures		Identification	Structure type	Length (µm)	Width (µm)	Fibre Type	Comments
		primary	total						
1	H1	1	1	AZZQ	F	2.9	0.5	Anthophyllite	
	H3	2	2	AZQ	F	2.6	0.3	Actinolite	
	H5								
	H7								
	H9								
	B1								
	B3								
	B4								
	B6	3	3	AZQ	F	8.6	0.95	Actinolite	
	B8								
	B10								
	D9								
	D7								
	D5								
	D3								
D1									
F1									
F3									
F7									
2	B1								
	B3								
	B5								
	B7								
	B9								
	D9								
	D7								
	D5	4	4	ADX	F	7.3	0.5	Actinolite	
	D3								
	D1								
F1									
F3									
I1	5	5	ADX	F	3.9	0.5	Actinolite		
H3									
H5									
H7									
H9			NAM		3.3	0.05			

Final Laboratory Report

TEM Bulk Protocol

Attention: David Raphael
K & L Gates
17 North Second Street
Harrisburg, PA 17101
US

Report Date: 08/07/2020
Sample Receipt Date:
RJ Lee Group Job No.: LLH901997-23
Authorization/P.O. No.:
Samples Received: 1
Client Job No.:

Method: EPA/R-93/600/116

TABLE 1 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos

Client Sample Number	RJLG Sample Number	Total Structures				-----Weight Percent----- Total Structures Analytical Sensitivity			
		Chry	Amph	Cleavage	Non Asbestos	Chry	Amph Asb	Amph Cleavage Fragment	Non Asbestos
11 - RH #12	3158833	0	9	54	2	< 5.0E-6 5.0E-6	1.9E-3 6.2E-6	9.0E-2 4.0E-6	5.6E-2 3.7E-6

NOTES

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- Density of amphibole: 3.2×10^{-3} ng/ μ m³, density of chrysotile: 2.55×10^{-3} ng/ μ m³, density of non-asbestos: 3.00×10^{-3} ng/ μ m³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
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RJ Lee Group Job No: LLH901997-23
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/07/2020

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos 5 μm

Client Sample Number	RJLG Sample Number	-----Structures 5 μm-----				-----Weight Percent----- Structures 5 μm Analytical Sensitivity			
		Chry	Amph	Cleavage	Non-Asbestos	Amphibole			
						Chry	Asb	Cleavage Fragment	Non-Asbestos
11 - RH #12	3158833	0	0	0	2	<u>< 5.0E-5</u> 5.0E-5	<u>< 6.2E-5</u> 6.2E-5	<u>< 4.0E-5</u> 4.0E-5	<u>5.6E-2</u> 3.7E-5

NOTES

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- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2 * 10⁻³ ng/ μ m³, density of chrysotile: 2.55 * 10⁻³ ng/ μ m³, density of non-asbestos: 3.00 * 10⁻³ ng/ μ m³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
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RJ Lee Group, Inc.

RJ Lee Group Job No: LLH901997-23
Client Job No/Name:

Final Laboratory Report (cont'd)

Client: K & L Gates
Report Date: 08/07/2020

Client Sample Number	RJLG Sample Number	Material Used (gm)	Area Analyzed Total (mm ²)	Area Analyzed 5 μm (mm ²)	Effective Filter Area (mm ²)	Dilution Factor
11 - RH #12	3158833	0.0002	0.30731	0.30731	1220	1.0

Authorized Signature: 
Ashleigh Sload, Scientist

NOTES

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- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2×10^{-3} ng/μm³, density of chrysotile: 2.55×10^{-3} ng/μm³, density of non-asbestos: 3.00×10^{-3} ng/μm³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
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RJL: LLH901997-23	3158833.HTA2	Microscope tem2000fx2	Grid Openings	10
11 - RH #12	K & L Gates	Magnification 21 KX	Asbestos	9.0
Wt: 0.0002 gm	Grid: 0.0088 mm ²	Acc. Voltage 120 KV	Asbestos >= 5µm	0.0
Dil: 1.	Filter Size: 47 mm	Operator: Jon Swope	Nonasbestos	54.0
HQ45446		Cv = 1.09	Nonasbestos >= 5µm	0.0
			% Wt of largest asbestos structure	%

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1	1	1.65	0.2	Amphibole		MgSiCaFeAl	5804D	Image1	Diff1	Acti	Cle
1	2	3.2	0.4	Amphibole		MgSiCaFe			X	Acti	Cle
1	3	2.6	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
1	4	2.75	0.05	Amphibole	F	MgSiCaFeAl	5805D	Image2	Diff2	Acti	Asb
1	5	1.3	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
1	6	1.6	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
1	7	3.2	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
1	8	1.1	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
1	9	1.2	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
1	10	1.3	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
2	1	1.4	0.1	Amphibole	F	MgSiCaFe			X	Acti	Asb
2	2	1.3	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
2	3	2.5	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
2	4	1.6	0.1	Amphibole	F	MgSiCaFe			X	Acti	Asb
2	5	1.5	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
2	6	1.4	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
2	7	2.1	0.1	Amphibole	F	MgSiCaFe			X	Acti	Asb
3	1	1.2	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
3	2	2.3	0.05	Amphibole	F	MgSiCaFe			X	Acti	Asb
3	3	2.2	0.05	Amphibole	F	MgSiCaFe			X	Acti	Asb
3	4	1.5	0.2	Amphibole		MgSiCaFeAl	5806D	Image3	Diff3	Acti	Cle
3	5	1.1	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
3	6	1.6	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
3	7	1.4	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
4	1	1.2	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
4	2	2.7	0.1	Amphibole	F	MgSiCaFe			X	Acti	Asb
4	3	3.2	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
4	4	2.3	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
4	5	1.6	0.15	Amphibole		MgSiCaFe			X	Acti	Cle
4	6	4.7	0.4	Amphibole		MgSiCaFe			X	Acti	Cle
5	1	1.7	0.25	Amphibole		MgSiCaFeAl	5807D	Image4	Diff4	Acti	Cle
5	2	2.9	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
5	3	1.2	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
6	1	1.3	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
6	2	1.2	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
6	3	3.5	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
6	4	2.9	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
6	5	3.3	0.4	Amphibole		MgSiCaFe			X	Acti	Cle
6	6	4.1	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
6	7	1.4	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
6	8	2.5	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
6	9	2.2	0.3	Amphibole		MgSiCaFeAl	5810D	Image5	Diff5	Acti	Cle
7	1	1.2	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
7	2	2.3	0.2	Amphibole		MgSiCaFe			X	Acti	Cle

RJ Lee Group, Inc.
TEM Count Sheet

RJL: LLH901997-23	3158833.HTA2	Microscope tem2000fx2	Grid Openings	10
11 - RH #12	K & L Gates	Magnification 21 KX	Asbestos	9.0
Wt: 0.0002 gm	Grid: 0.0088 mm ²	Acc. Voltage 120 KV	Asbestos >= 5µm	0.0
Dil: 1.	Filter Size: 47 mm	Operator: Jon Swope	Nonasbestos	54.0
HQ45446		Cv = 1.09	Nonasbestos >= 5µm	0.0
			% Wt of largest asbestos structure	%

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
7	3	1.3	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
7	4	3.2	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
8	1	2.1	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
8	2	3.8	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
8	3	1.5	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
8	4	1.2	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
8	5	3.4	0.25	Amphibole		MgSiCaFe			X	Acti	Cle
8	6	2.9	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
8	7	3.4	0.4	Amphibole		MgSiCaFe	15811D	Image6	Diff6	Acti	Cle
8	8	2.1	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
9	1	1.3	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
9	2	1.6	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
9	3	2.3	0.4	Amphibole		MgSiCaFe			X	Acti	Cle
9	4	1.2	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
9	5	1.7	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
10	1	1.2	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
10	2	2.2	0.06	Amphibole	F	MgSiCaFe	15812D	Image7	Diff7	Acti	Asb
10	3	3.1	0.06	Amphibole	F	MgSiCaFe			X	Acti	Asb
10	4	2.3	0.2	Amphibole		MgSiCaFe			X	Acti	Cle

12% Particulate

Analyst's Comments: N/A

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 8/4/2020 11:50:58 AM approve by Jon Swope

Final Review: 8/7/20 10:27 AM approve by Ashleigh Sload

RJL: LLH901997-23	3158833.HTA2	Microscope tem2000fx2	Grid Openings	25
11 - RH #12	K & L Gates	Magnification 10 KX	Asbestos	0.0
Wt: 0.0002 gm	Grid: 0.0088 mm ²	Acc. Voltage 120 KV	Nonasbestos	2.0
Dil: 1.	Filter Size: 47 mm	Operator: Jon Swope	% Wt of largest asbestos structure	%
HQ45446		Cv = 0		

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1				NSD							
2	1	9.6	0.95	Non-Asbestos		MgSiCaFeAl	15808D	Image1	Diff1	CPX	
3				NSD							
4				NSD							
5				NSD							
6				NSD							
7				NSD							
8				NSD							
9				NSD							
10				NSD							
11				NSD							
12				NSD							
13				NSD							
14				NSD							
15				NSD							
16				NSD							
17				NSD							
18				NSD							
19				NSD							
20				NSD							
21				NSD							
22				NSD							
23				NSD							
24				NSD							
25	1	6.7	0.85	Non-Asbestos		MgSiCaFeAl	15809D	Image2	Diff2	CPX	

12% Particulate

Analyst's Comments: N/A

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 8/4/2020 1:18:54 PM approve by Jon Swope

Final Review: 8/7/20 10:27 AM approve by Ashleigh Sload

Final Laboratory Report

TEM Bulk Protocol

Attention: David Raphael
K & L Gates
17 North Second Street
Harrisburg, PA 17101
US

Report Date: 08/07/2020
Sample Receipt Date:
RJ Lee Group Job No.: LLH901997-23
Authorization/P.O. No.:
Samples Received: 1
Client Job No.:

Method: ISO 22262-2

TABLE 1 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos

Client Sample Number	RJLG Sample Number	Total Structures				-----Weight Percent----- Total Structures Analytical Sensitivity			
		Chry	Amph	Cleavage	Non Asbestos	Chry	Amph Asb	Amph Cleavage Fragment	Non Asbestos
11 - RH #12	3158833	0	9	54	2	< 5.0E-6 5.0E-6	1.2E-3 4.0E-6	9.0E-2 4.0E-6	5.6E-2 3.7E-6

NOTES

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- Density of amphibole: 3.2×10^{-3} ng/ μ m³, density of chrysotile: 2.55×10^{-3} ng/ μ m³, density of non-asbestos: 3.00×10^{-3} ng/ μ m³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
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RJ Lee Group Job No: LLH901997-23
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/07/2020

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos 5 μm

Client Sample Number	RJLG Sample Number	-----Structures 5 μm-----				-----Weight Percent----- Structures 5 μm Analytical Sensitivity			
		Chry	Amph	Cleavage	Non-Asbestos	Amphibole			
						Chry	Asb	Cleavage Fragment	Non-Asbestos
11 - RH #12	3158833	0	0	0	2	<u>< 5.0E-5</u> 5.0E-5	<u>< 4.0E-5</u> 4.0E-5	<u>< 4.0E-5</u> 4.0E-5	<u>5.6E-2</u> 3.7E-5

NOTES

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- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2 * 10⁻³ ng/ μ m³, density of chrysotile: 2.55 * 10⁻³ ng/ μ m³, density of non-asbestos: 3.00 * 10⁻³ ng/ μ m³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
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RJ Lee Group, Inc.

RJ Lee Group Job No: LLH901997-23
Client Job No/Name:

Final Laboratory Report (cont'd)

Client: K & L Gates
Report Date: 08/07/2020

Client Sample Number	RJLG Sample Number	Material Used (gm)	Area Analyzed Total (mm ²)	Area Analyzed 5 μm (mm ²)	Effective Filter Area (mm ²)	Dilution Factor
11 - RH #12	3158833	0.0002	0.30731	0.30731	1220	1.0

Authorized Signature: 
Ashleigh Sload, Scientist

NOTES

- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2×10^{-3} ng/μm³, density of chrysotile: 2.55×10^{-3} ng/μm³, density of non-asbestos: 3.00×10^{-3} ng/μm³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
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RJ Lee Group, Inc
LLH901997-23
3158833.HTA2

K & L Gates
11 - RH #12

04-Aug-20

Air volume:
Area of collection filter:
Volume flowrate:
Level of analysis (chrysotile): NA
Level of analysis (amphibole): AZQ
Magnification used for structure counting:
Aspect ratio for fibre definition: 3:1
Mean dimension of grid openings: 0.00878032
Initials of analyst: JS
Number of grid openings examined: 35
Analytical sensitivity:
Number of primary asbestos structures: 63
Number of asbestos structures counted: 63
Number of asbestos structures >5 µm: 0
Number of fibres and bundles > 5 µm: 0
Number of PCM equivalent asbestos structures: 0
Number of PCM equivalent asbestos fibres: 0

TEM asbestos structure count					
Report Number:	LLH901997-23				
Sample Number:	3158833.HTA2		Sample Weight:	0.0002	
Sample Description:	11 - RH #12		Filter area (mm ²):	1220	
			Magnification:	10/20 KX	
			Grid opening dimension (mm ²)	0.00878032	
Preparation date:	06/9/20	RAM	RAM		
Analysis date:	08/4/20	By:	JS	Level of analysis (chrysotile)	NA
Computer entry date:	08/9/20	By:	MMK	Level of analysis (amphibole)	AZQ

Grid	Grid Opening	Structures		Identification	Structure type	Length (µm)	Width (µm)	Fibre Type	Comments
		primary	total						
1	H1	1	1	AZQ	F	1.65	0.2	Actinolite	
		2	2	ADX	F	3.2	0.4	Actinolite	
		3	3	AZQ	F	2.6	0.3	Actinolite	
		4	4	ADX	F	2.75	0.05	Actinolite	
		5	5	ADX	F	1.3	0.2	Actinolite	
		6	6	ADX	F	1.6	0.3	Actinolite	
		7	7	ADX	F	3.2	0.3	Actinolite	
		8	8	ADX	F	1.1	0.2	Actinolite	
		9	9	ADX	F	1.2	0.2	Actinolite	
		10	10	ADX	F	1.3	0.2	Actinolite	
	H3	11	11	ADX	F	1.4	0.1	Actinolite	
		12	12	ADX	F	1.3	0.2	Actinolite	
		13	13	ADX	F	2.5	0.3	Actinolite	
		14	14	ADX	F	1.6	0.1	Actinolite	
		15	15	ADX	F	1.5	0.2	Actinolite	
		16	16	ADX	F	1.4	0.2	Actinolite	
		17	17	ADX	F	2.1	0.1	Actinolite	
	H5	18	18	ADX	F	1.2	0.2	Actinolite	
		19	19	ADX	F	2.3	0.05	Actinolite	
		20	20	ADX	F	2.2	0.05	Actinolite	
		21	21	AZQ	F	1.5	0.2	Actinolite	
		22	22	ADX	F	1.1	0.2	Actinolite	
		23	23	ADX	F	1.6	0.2	Actinolite	
		24	24	ADX	F	1.4	0.2	Actinolite	
	H7	25	25	ADX	F	1.2	0.2	Actinolite	
		26	26	ADX	F	2.7	0.1	Actinolite	
		27	27	ADX	F	3.2	0.3	Actinolite	
		28	28	ADX	F	2.3	0.2	Actinolite	
		29	29	ADX	F	1.6	0.15	Actinolite	
		30	30	ADX	F	4.7	0.4	Actinolite	
	H9	31	31	AZQ	F	1.7	0.25	Actinolite	
		32	32	ADX	F	2.9	0.2	Actinolite	
		33	33	ADX	F	1.2	0.2	Actinolite	
	B1			No Fibres					
	B3			NAM		9.6	0.95	CPX	
	B5			No Fibres					
	B7			No Fibres					
	B9			No Fibres					
	D9			No Fibres					
	D7			No Fibres					
	D5			No Fibres					
	D3			No Fibres					

TEM asbestos structure count					
Report Number:	LLH901997-23				
Sample Number:	3158833.HTA2		Sample Weight:	0.0002	
Sample Description:	11 - RH #12		Filter area (mm ²):	1220	
			Magnification:	10/20 KX	
			Grid opening dimension (mm ²)	0.00878032	
Preparation date:	06/9/20	RAM	RAM		
Analysis date:	08/4/20	By:	JS	Level of analysis (chrysotile)	NA
Computer entry date:	08/9/20	By:	MMK	Level of analysis (amphibole)	AZQ

Grid	Grid Opening	Structures		Identification	Structure type	Length (µm)	Width (µm)	Fibre Type	Comments
		primary	total						
	D1			No Fibres					
	F1			No Fibres					
	F3			No Fibres					
	F7			No Fibres					
2	B1			No Fibres					
	B3			No Fibres					
	B5			No Fibres					
	B7			No Fibres					
	B9			No Fibres					
	D10			No Fibres					
	D8			No Fibres					
	D6			No Fibres					
	D4			No Fibres					
	D2			No Fibres					
	F1			No Fibres					
	F3			NAM		6.7	0.85	CPX	
	G1	34	34	ADX	F	1.3	0.2	Actinolite	
		35	35	ADX	F	1.2	0.2	Actinolite	
		36	36	ADX	F	3.5	0.3	Actinolite	
		37	37	ADX	F	2.9	0.2	Actinolite	
		38	38	ADX	F	3.3	0.4	Actinolite	
		39	39	ADX	F	4.1	0.3	Actinolite	
		40	40	ADX	F	1.4	0.2	Actinolite	
		41	41	ADX	F	2.5	0.2	Actinolite	
		42	42	AZQ	F	2.2	0.3	Actinolite	
	G3	43	43	ADX	F	1.2	0.2	Actinolite	
		44	44	ADX	F	2.3	0.2	Actinolite	
		45	45	ADX	F	1.3	0.2	Actinolite	
		46	46	ADX	F	3.2	0.3	Actinolite	
	G5	47	47	ADX	F	2.1	0.2	Actinolite	
		48	48	ADX	F	3.8	0.3	Actinolite	
		49	49	ADX	F	1.5	0.2	Actinolite	
		50	50	ADX	F	1.2	0.2	Actinolite	
		51	51	ADX	F	3.4	0.25	Actinolite	
		52	52	ADX	F	2.9	0.3	Actinolite	
		53	53	AZQ	F	3.4	0.4	Actinolite	
		54	54	ADX	F	2.1	0.2	Actinolite	
	G7	55	55	ADX	F	1.3	0.2	Actinolite	
		56	56	ADX	F	1.6	0.2	Actinolite	
		57	57	ADX	F	2.3	0.4	Actinolite	
		58	58	ADX	F	1.2	0.2	Actinolite	
		59	59	ADX	F	1.7	0.3	Actinolite	

TEM asbestos structure count					
Report Number:	LLH901997-23				
Sample Number:	3158833.HTA2		Sample Weight:	0.0002	
Sample Description:	11 - RH #12		Filter area (mm ²):	1220	
			Magnification:	10/20 KX	
			Grid opening dimension (mm ²)	0.00878032	
Preparation date:	06/9/20	RAM	RAM		
Analysis date:	08/4/20	By:	JS	Level of analysis (chrysotile)	NA
Computer entry date:	08/9/20	By:	MMK	Level of analysis (amphibole)	AZQ

Grid	Grid Opening	Structues		Identification	Structure type	Length (µm)	Width (µm)	Fibre Type	Comments
		primary	total						
	G9	60	60	ADX	F	1.2	0.2	Actinolite	
		61	61	AZQ	F	2.2	0.06	Actinolite	
		62	62	ADX	F	3.1	0.06	Actinolite	
		63	63	ADX	F	2.3	0.2	Actinolite	

Final Laboratory Report

TEM Bulk Protocol

Attention: David Raphael
K & L Gates
17 North Second Street
Harrisburg, PA 17101
US

Report Date: 08/12/2020
Sample Receipt Date:
RJ Lee Group Job No.: LLH901997-23
Authorization/P.O. No.:
Samples Received: 1
Client Job No.:

Method: EPA/R-93/600/116

TABLE 1 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos

Client Sample Number	RJLG Sample Number	Total Structures				-----Weight Percent----- Total Structures Analytical Sensitivity			
		Chry	Amph	Cleavage	Non Asbestos	Chry	Amph Asb	Amph Cleavage Fragment	Non Asbestos
12 - RH #14	3158834	0	0	58	1	< 9.9E-6 9.9E-6	< 1.2E-5 1.2E-5	1.6E0 7.9E-6	8.8E-3 7.4E-6

NOTES

- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2×10^{-3} ng/ μ m³, density of chrysotile: 2.55×10^{-3} ng/ μ m³, density of non-asbestos: 3.00×10^{-3} ng/ μ m³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
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RJ Lee Group Job No: LLH901997-23
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/12/2020

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos 5 μm

Client Sample Number	RJLG Sample Number	-----Structures 5 μm-----				-----Weight Percent----- Structures 5 μm Analytical Sensitivity			
		Chry	Amph	Cleavage	Non-Asbestos	Amphibole			
						Chry	Asb	Cleavage Fragment	Non-Asbestos
12 - RH #14	3158834	0	0	13	1	<u>< 9.9E-5</u> 9.9E-5	<u>< 1.2E-4</u> 1.2E-4	<u>1.3E0</u> 7.9E-5	<u>8.8E-3</u> 7.4E-5

NOTES

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- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2 * 10⁻³ ng/ μ m³, density of chrysotile: 2.55 * 10⁻³ ng/ μ m³, density of non-asbestos: 3.00 * 10⁻³ ng/ μ m³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
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RJ Lee Group, Inc.

RJ Lee Group Job No: LLH901997-23
Client Job No/Name:

Final Laboratory Report (cont'd)

Client: K & L Gates
Report Date: 08/12/2020

Client Sample Number	RJLG Sample Number	Material Used (gm)	Area Analyzed Total (mm ²)	Area Analyzed 5 μm (mm ²)	Effective Filter Area (mm ²)	Dilution Factor
12 - RH #14	3158834	0.0001	0.30880	0.30880	1220	1.0

Authorized Signature: 
Ashleigh Sload, Scientist

NOTES

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- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2×10^{-3} ng/μm³, density of chrysotile: 2.55×10^{-3} ng/μm³, density of non-asbestos: 3.00×10^{-3} ng/μm³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
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RJL: LLH901997-23	3158834.HTA3	Microscope tem2000fx1	Grid Openings	10
12 - RH #14	K & L Gates	Magnification 21 KX	Asbestos	0.0
Wt: 0.0001 gm	Grid: 0.0088 mm ²	Acc. Voltage 120 KV	Asbestos >= 5µm	0.0
Dil: 1.	Filter Size: 47 mm	Operator: Jacquelyn Mershon	Nonasbestos	50.0
HQ45592		Cv = 0	Nonasbestos >= 5µm	5.0
			% Wt of largest asbestos structure	%

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1	1	6.31	0.25	Amphibole		MgSiCaFeAl	6692C	Image1	Diff1 Diff2	Acti	Cle
1	2	1.15	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
1	3	1.84	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
1	4	2.07	0.28	Amphibole		MgSiCaFe			X	Acti	Cle
2	1	1.15	0.1	Amphibole		MgSiCaFe			X	Acti	Cle
2	2	1.84	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
2	3	1.38	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
2	4	1.73	0.28	Amphibole		MgSiCaFe			X	Acti	Cle
2	5	1.61	0.23	Amphibole		MgSiCaFe			X	Acti	Cle
2	6	2.19	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
2	7	2.91	0.46	Amphibole		MgSiCaFeAl	6693C	Image2	Diff3	Acti	Cle
2	8	3.68	0.69	Amphibole		MgSiCaFe			X	Acti	Cle
2	9	3.34	0.25	Amphibole		MgSiCaFe			X	Acti	Cle
3	1	2.19	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
3	2	3.22	0.56	Amphibole		MgSiCaFe			X	Acti	Cle
3	3	1.61	0.28	Amphibole		MgSiCaFe			X	Acti	Cle
3	4	2.53	0.23	Amphibole		MgSiCaFe			X	Acti	Cle
4	1	1.84	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
4	2	2.53	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
4	3	3.17	0.45	Amphibole		MgSiCaFe			X	Acti	Cle
4	4	2.44	0.25	Amphibole		MgSiCaFeAl	6694C	Image3	Diff4	Acti	Cle
4	5	1.73	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
5	1	3.22	0.51	Amphibole		MgSiCaFe			X	Acti	Cle
5	2	3.44	0.61	Amphibole		MgSiCaFe			X	Acti	Cle
5	3	2.65	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
5	4	1.15	0.12	Amphibole		MgSiCaFe			X	Acti	Cle
6	1	2.29	0.35	Amphibole		MgSiCaFe			X	Acti	Cle
6	2	2.49	0.45	Amphibole		MgSiCaFe			X	Acti	Cle
6	3	2.53	0.28	Amphibole		MgSiCaFe			X	Acti	Cle
6	4	1.84	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
6	5	1.58	0.15	Amphibole		MgSiCaFeAl	6701C	Image4	Diff5	Acti	Cle
7	1	1.53	0.25	Amphibole		MgSiCaFe			X	Acti	Cle
7	2	2.76	0.25	Amphibole		MgSiCaFe			X	Acti	Cle
7	3	2.65	0.4	Amphibole		MgSiCaFe			X	Acti	Cle
7	4	1.84	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
8	1	2.76	0.33	Amphibole		MgSiCaFe			X	Acti	Cle
8	2	1.43	0.15	Amphibole		MgSiCaFe			X	Acti	Cle
8	3	2.14	0.4	Amphibole		MgSiCaFe			X	Acti	Cle
8	4	2.99	0.46	Amphibole		MgSiCaFe			X	Acti	Cle
8	5	5.98	0.61	Amphibole		MgSiCaFe			X	Acti	Cle
8	6	4.03	0.46	Amphibole		MgSiCaFeAl	6702C	Image5	Diff6	Acti	Cle
9	1	9.16	1.02	Amphibole		MgSiCaFe			X	Acti	Cle
9	2	2.14	0.15	Amphibole		MgSiCaFe			X	Acti	Cle

RJL: LLH901997-23	3158834.HTA3	Microscope tem2000fx1	Grid Openings	10
12 - RH #14	K & L Gates	Magnification 21 KX	Asbestos	0.0
Wt: 0.0001 gm	Grid: 0.0088 mm ²	Acc. Voltage 120 KV	Asbestos >= 5µm	0.0
Dil: 1.	Filter Size: 47 mm	Operator: Jacquelyn Mershon	Nonasbestos	50.0
HQ45592		Cv = 0	Nonasbestos >= 5µm structure	5.0
			% Wt of largest asbestos	%

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
9	3	8.74	0.69	Amphibole		MgSiCaFe		X	Acti		Cle
9	4	1.84	0.2	Amphibole		MgSiCaFe		X	Acti		Cle
9	5	1.61	0.28	Amphibole		MgSiCaFe		X	Acti		Cle
10	1	1.84	0.2	Amphibole		MgSiCaFe		X	Acti		Cle
10	2	1.73	0.25	Amphibole		MgSiCaFe		X	Acti		Cle
10	3	11.45	1.04	Amphibole		MgSiCaFe		X	Acti		Cle
10	4	2.2	0.5	Amphibole		MgSiCaFe		X	Acti		Cle

10% Particulate

Analyst's Comments: N/A

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 8/7/2020 9:21:49 AM approve by Jacquelyn Mershon

Final Review: 8/12/20 11:46 AM approve by Ashleigh Sload

RJL: LLH901997-23	3158834.HTA3	Microscope tem2000fx1	Grid Openings	25
12 - RH #14	K & L Gates	Magnification 10 KX	Asbestos	0.0
Wt: 0.0001 gm	Grid: 0.0088 mm ²	Acc. Voltage 120 KV	Nonasbestos	9.0
Dil: 1.	Filter Size: 47 mm	Operator: Jacquelyn Mershon	% Wt of largest asbestos	%
HQ45592		Cv = 0	structure	

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1				NSD							
2	1	6.3	0.54	Amphibole		MgSiCaFeAl	6691C	Image1	Diff1	Acti	Cle
3	1	11.23	2.15	Amphibole		MgSiCaFe			X	Acti	Cle
4				NSD							
5	1	5.4	1.04	Amphibole		MgSiCaFe			X	Acti	Cle
6	1	5.67	1.08	Amphibole		MgSiCaFe			X	Acti	Cle
7				NSD							
8				NSD							
9				NSD							
10				NSD							
11				NSD							
12				NSD							
13				NSD							
14	1	5.85	0.9	Amphibole		MgSiCaFe			X	Acti	Cle
14	2	7.2	0.23	Amphibole		MgSiCaFe		Image2	X	Acti	Cle
15				NSD							
16				NSD							
17				NSD							
18	1	5.18	0.45	Non-Asbestos		MgSiCaFe	16700C	Image3	Diff2	CPX	
18	2	5.4	0.72	Amphibole		MgSiCaFe			X	Acti	Cle
19				NSD							
20				NSD							
21				NSD							
22				NSD							
23				NSD							
24	1	6.53	0.63	Amphibole		MgSiCaFe			X	Acti	Cle
25				NSD							

10% Particulate

Analyst's Comments: N/A

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 8/7/2020 7:42:12 AM approve by Jacquelyn Mershon

Final Review: 8/7/20 2:45 PM approve by Ashleigh Sload

Final Laboratory Report

TEM Bulk Protocol

Attention: David Raphael
K & L Gates
17 North Second Street
Harrisburg, PA 17101
US

Report Date: 08/12/2020
Sample Receipt Date:
RJ Lee Group Job No.: LLH901997-23
Authorization/P.O. No.:
Samples Received: 1
Client Job No.:

Method: ISO 22262-2

TABLE 1 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos

Client Sample Number	RJLG Sample Number	<u>Total Structures</u>				-----Weight Percent----- <u>Total Structures</u> Analytical Sensitivity			
		Chry	Amph	Cleavage	Non Asbestos	Chry	Amph Asb	Amph Cleavage Fragment	Non Asbestos
12 - RH #14	3158834	0	0	58	1	< 9.9E-6 9.9E-6	< 7.9E-6 7.9E-6	1.6E0 7.9E-6	8.8E-3 7.4E-6

NOTES

1. "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
2. Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
3. If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
4. Density of amphibole: 3.2×10^{-3} ng/ μ m³, density of chrysotile: 2.55×10^{-3} ng/ μ m³, density of non-asbestos: 3.00×10^{-3} ng/ μ m³.
5. Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
6. Samples will be held for 90 days and then disposed of per Federal regulations.
7. These results are submitted pursuant to RJ Lee Group'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 these results are used or interpreted.

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RJ Lee Group Job No: LLH901997-23
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/12/2020

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos 5 μm

Client Sample Number	RJLG Sample Number	-----Structures 5 μm-----				-----Weight Percent----- Structures 5 μm Analytical Sensitivity			
		Chry	Amph	Cleavage	Non-Asbestos	Amphibole			
						Chry	Asb	Cleavage Fragment	Non-Asbestos
12 - RH #14	3158834	0	0	13	1	<u>< 9.9E-5</u> 9.9E-5	<u>< 7.9E-5</u> 7.9E-5	<u>1.3E0</u> 7.9E-5	<u>8.8E-3</u> 7.4E-5

NOTES

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- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2 * 10⁻³ ng/ μ m³, density of chrysotile: 2.55 * 10⁻³ ng/ μ m³, density of non-asbestos: 3.00 * 10⁻³ ng/ μ m³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
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RJ Lee Group, Inc.

RJ Lee Group Job No: LLH901997-23
Client Job No/Name:

Final Laboratory Report (cont'd)

Client: K & L Gates
Report Date: 08/12/2020

Client Sample Number	RJLG Sample Number	Material Used (gm)	Area Analyzed Total (mm ²)	Area Analyzed 5 μm (mm ²)	Effective Filter Area (mm ²)	Dilution Factor
12 - RH #14	3158834	0.0001	0.30880	0.30880	1220	1.0

Authorized Signature: 
Ashleigh Sload, Scientist

NOTES

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- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2×10^{-3} ng/μm³, density of chrysotile: 2.55×10^{-3} ng/μm³, density of non-asbestos: 3.00×10^{-3} ng/μm³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
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RJ Lee Group, Inc
LLH901997-23
3158834.HTA3

K & L Gates
11 - RH #12

04-Aug-20

Air volume:
Area of collection filter:
Volume flowrate:
Level of analysis (chrysotile): NA
Level of analysis (amphibole): AZZQ
Magnification used for structure counting:
Aspect ratio for fibre definition: 3:1
Mean dimension of grid openings: 0.00882281
Initials of analyst: JM
Number of grid openings examined: 35
Analytical sensitivity:
Number of primary asbestos structures: 58
Number of asbestos structures counted: 58
Number of asbestos structures >5 µm: 13
Number of fibres and bundles > 5 µm: 13
Number of PCM equivalent asbestos structures: 13
Number of PCM equivalent asbestos fibres: 13

TEM asbestos structure count					
Report Number:	LLH901997-23				
Sample Number:	3158834.HTA3		Sample Weight:	0.0001	
Sample Description:	11 - RH #12		Filter area (mm2):	1220	
			Magnification:	10/20 KX	
			Grid opening dimension (mm2)	0.00882281	
Preparation date:	08/5/20	By:	MK		
Analysis date:	08/4/20	By:	JM	Level of analysis (chrysotile)	NA
Computer entry date:	08/9/20	By:	MMK	Level of analysis (amphibole)	AZZQ

Grid	Grid Opening	Structures		Identification	Structure type	Length (µm)	Width (µm)	Fibre Type	Comments
		primary	total						
1	H1	1	1	AZZQ	F	6.31	0.25	Actinolite	
		2	2	ADX	F	1.15	0.2	Actinolite	
		3	3	ADX	F	1.84	0.2	Actinolite	
		4	4	ADX	F	2.07	0.28	Actinolite	
	H3	5	5	ADX	F	1.15	0.1	Actinolite	
		6	6	ADX	F	1.84	0.3	Actinolite	
		7	7	ADX	F	1.38	0.2	Actinolite	
		8	8	ADX	F	1.73	0.28	Actinolite	
		9	9	ADX	F	1.61	0.23	Actinolite	
		10	10	ADX	F	2.19	0.3	Actinolite	
		11	11	AZQ	F	2.91	0.46	Actinolite	
	H5	12	12	ADX	F	3.68	0.69	Actinolite	
		13	13	ADX	F	3.34	0.25	Actinolite	
14		14	ADX	F	2.19	0.3	Actinolite		
15		15	ADX	F	3.22	0.56	Actinolite		
16		16	ADX	F	1.61	0.28	Actinolite		
17		17	ADX	F	2.53	0.23	Actinolite		
H7		18	18	ADX	F	1.84	0.2	Actinolite	
	19	19	ADX	F	2.53	0.3	Actinolite		
	20	20	ADX	F	3.17	0.45	Actinolite		
	21	21	AZQ	F	2.44	0.25	Actinolite		
	22	22	ADX	F	1.73	0.2	Actinolite		
H9	23	23	ADX	F	3.22	0.51	Actinolite		
	24	24	ADX	F	3.44	0.61	Actinolite		
	25	25	ADX	F	2.65	0.3	Actinolite		
	26	26	ADX	F	1.15	0.12	Actinolite		
B4			No Fibres						
B6	27	27	AZQ	F	6.3	0.54	Actinolite		
B8	28	28	ADX	F	11.23	2.15	Actinolite		
B10			No Fibres						
D10	29	29	ADX	F	5.4	1.04	Actinolite		
D8	30	30	ADX	F	5.67	1.08	Actinolite		
D6			No Fibres						
D4			No Fibres						
D2			No Fibres						
F1			No Fibres						
F3			No Fibres						
F7			No Fibres						
F9			No Fibres						
2	B3	31	31	ADX	F	5.85	0.9	Actinolite	
		32	32	ADX	F	14.4	0.23	Actinolite	
B5			No Fibres						
B7			No Fibres						

TEM asbestos structure count					
Report Number:	LLH901997-23				
Sample Number:	3158834.HTA3			Sample Weight:	0.0001
Sample Description:	11 - RH #12			Filter area (mm ²):	1220
				Magnification:	10/20 KX
				Grid opening dimension (mm ²)	0.00882281
Preparation date:	08/5/20	By:	MK		
Analysis date:	08/4/20	By:	JM	Level of analysis (chrysotile)	NA
Computer entry date:	08/9/20	By:	MMK	Level of analysis (amphibole)	AZZQ

Grid	Grid Opening	Structures		Identification	Structure type	Length (µm)	Width (µm)	Fibre Type	Comments
		primary	total						
	B9			No Fibres					
	D10			NAM		5.18	0.45	CPX	
		33	33	ADX	F	5.4	0.72	Actinolite	
	D8			No Fibres					
	D6			No Fibres					
	D4			No Fibres					
	D2			No Fibres					
	F2			No Fibres					
	F4	34	34	ADX	F	6.53	0.63	Actinolite	
	F7			No Fibres					
	H1	35	35	ADX	F	2.29	0.35	Actinolite	
		36	36	ADX	F	2.49	0.45	Actinolite	
		37	37	ADX	F	2.53	0.28	Actinolite	
		38	38	ADX	F	1.84	0.2	Actinolite	
		39	39	AZQ	F	1.58	0.15	Actinolite	
	H3	40	40	ADX	F	1.53	0.25	Actinolite	
		41	41	ADX	F	2.76	0.25	Actinolite	
		42	42	ADX	F	2.65	0.4	Actinolite	
		43	43	ADX	F	1.84	0.2	Actinolite	
	H5	44	44	ADX	F	2.76	0.33	Actinolite	
		45	45	ADX	F	1.43	0.15	Actinolite	
		46	46	ADX	F	2.14	0.4	Actinolite	
		47	47	ADX	F	2.99	0.46	Actinolite	
		48	48	ADX	F	5.98	0.61	Actinolite	
		49	49	AZQ	F	4.03	0.46	Actinolite	
	H7	50	50	ADX	F	9.16	1.02	Actinolite	
		51	51	ADX	F	2.14	0.15	Actinolite	
		52	52	ADX	F	8.74	0.69	Actinolite	
		53	53	ADX	F	1.84	0.2	Actinolite	
		54	54	ADX	F	1.61	0.28	Actinolite	
	H9	55	55	ADX	F	1.84	0.2	Actinolite	
		56	56	ADX	F	1.73	0.25	Actinolite	
		57	57	ADX	F	11.45	1.04	Actinolite	
		57	57	ADX	F	2.2	0.5	Actinolite	

Final Laboratory Report

TEM Bulk Protocol

Attention: David Raphael
K & L Gates
17 North Second Street
Harrisburg, PA 17101
US

Report Date: 08/12/2020
Sample Receipt Date:
RJ Lee Group Job No.: LLH901997-23
Authorization/P.O. No.:
Samples Received: 1
Client Job No.:

Method: EPA/R-93/600/116

TABLE 1 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos

Client Sample Number	RJLG Sample Number	Total Structures				-----Weight Percent----- Total Structures Analytical Sensitivity			
		Chry	Amph	Cleavage	Non Asbestos	Chry	Amph Asb	Amph Cleavage Fragment	Non Asbestos
13 - RH #18	3158835	0	0	120	0	< 4.8E-5 4.8E-5	< 6.1E-5 6.1E-5	2.4E1 3.9E-5	< 3.6E-5 3.6E-5

NOTES

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- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2×10^{-3} ng/ μ m³, density of chrysotile: 2.55×10^{-3} ng/ μ m³, density of non-asbestos: 3.00×10^{-3} ng/ μ m³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
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RJ Lee Group Job No: LLH901997-23
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/12/2020

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos 5 µm

Client Sample Number	RJLG Sample Number	-----Structures 5 µm-----				-----Weight Percent----- Structures 5 µm Analytical Sensitivity			
		Chry	Amph	Cleavage	Non-Asbestos	Amphibole			
						Chry	Asb	Cleavage Fragment	Non-Asbestos
13 - RH #18	3158835	0	0	21	0	<u>< 4.8E-4</u> 4.8E-4	<u>< 6.1E-4</u> 6.1E-4	<u>2.1E1</u> 3.9E-4	<u>< 3.6E-4</u> 3.6E-4

NOTES

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- Density of amphibole: 3.2 * 10⁻³ ng/µm³, density of chrysotile: 2.55 * 10⁻³ ng/µm³, density of non-asbestos: 3.00 * 10⁻³ ng/µm³.
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RJ Lee Group, Inc.

RJ Lee Group Job No: LLH901997-23
Client Job No/Name:

Final Laboratory Report (cont'd)

Client: K & L Gates
Report Date: 08/12/2020

Client Sample Number	RJLG Sample Number	Material Used (gm)	Area Analyzed Total (mm ²)	Area Analyzed 5 μm (mm ²)	Effective Filter Area (mm ²)	Dilution Factor
13 - RH #18	3158835	0.00002	0.29998	0.29998	1220	1.0

Authorized Signature: 
Ashleigh Sload, Scientist

NOTES

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RJL: LLH901997-23	3158835.HTA4	Microscope tem2000fx1	Grid Openings	9
13 - RH #18	K & L Gates	Magnification 21 KX	Asbestos	0.0
Wt: 0.0 gm	Grid: 0.0088 mm ²	Acc. Voltage 120 KV	Asbestos >= 5µm	0.0
Dil: 1.	Filter Size: 47 mm	Operator: Jacquelyn Mershon	Nonasbestos	105.0
HQ45592		Cv = 0	Nonasbestos >= 5µm % Wt of largest asbestos structure	6.0 %

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1	1	2.49	0.28	Amphibole		MgSiCaFeAl	6668C	Image1	Diff1	Acti	Cle
1	2	4.14	0.56	Amphibole		MgSiCaFe			X	Acti	Cle
1	3	3.91	0.46	Amphibole		MgSiCaFe			X	Acti	Cle
1	4	1.15	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
1	5	1.84	0.35	Amphibole		MgSiCaFe			X	Acti	Cle
1	6	1.53	0.25	Amphibole		MgSiCaFe			X	Acti	Cle
1	7	1.38	0.15	Amphibole		MgSiCaFe			X	Acti	Cle
1	8	2.39	0.4	Amphibole		MgSiCaFe			X	Acti	Cle
1	9	1.84	0.33	Amphibole		MgSiCaFe			X	Acti	Cle
2	1	2.53	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
2	2	1.96	0.23	Amphibole		MgSiCaFeAl	6669C	Image2	Diff2	Acti	Cle
2	3	1.53	0.15	Amphibole		MgSiCaFe			X	Acti	Cle
2	4	10.58	1.15	Amphibole		MgSiCaFe			X	Acti	Cle
2	5	2.76	0.45	Amphibole		MgSiCaFe			X	Acti	Cle
2	6	2.07	0.35	Amphibole		MgSiCaFe			X	Acti	Cle
2	7	2.29	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
2	8	1.84	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
2	9	1.38	0.25	Amphibole		MgSiCaFe			X	Acti	Cle
2	10	1.61	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
2	11	1.53	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
2	12	2.19	0.23	Amphibole		MgSiCaFeAl	6670C	Image3	Diff3	Acti	Cle
3	1	2.76	0.46	Amphibole		MgSiCaFe			X	Acti	Cle
3	2	2.65	0.51	Amphibole		MgSiCaFe			X	Acti	Cle
3	3	1.2	0.23	Amphibole		MgSiCaFe			X	Acti	Cle
3	4	4.37	0.82	Amphibole		MgSiCaFe			X	Acti	Cle
3	5	1.26	0.25	Amphibole		MgSiCaFe			X	Acti	Cle
3	6	2.07	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
3	7	1.38	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
3	8	1.53	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
3	9	1.61	0.25	Amphibole		MgSiCaFe			X	Acti	Cle
3	10	4.37	0.45	Amphibole		MgSiCaFeAl	6671C	Image4	Diff4	Acti	Cle
3	11	2.53	0.23	Amphibole		MgSiCaFe			X	Acti	Cle
3	12	1.38	0.12	Amphibole		MgSiCaFe			X	Acti	Cle
3	13	1.15	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
3	14	1.53	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
4	1	17.64	2.76	Amphibole		MgSiCaFe			X	Acti	Cle
4	2	1.2	0.15	Amphibole		MgSiCaFe			X	Acti	Cle
4	3	5.73	0.82	Amphibole		MgSiCaFe			X	Acti	Cle
4	4	2.45	0.23	Amphibole		MgSiCaFe			X	Acti	Cle
4	5	1.04	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
4	6	3.44	0.25	Amphibole		MgSiCaFeAl	6672C	Image5	Diff5	Acti	Cle
4	7	1.53	0.25	Amphibole		MgSiCaFe			X	Acti	Cle
4	8	2.99	0.56	Amphibole		MgSiCaFe			X	Acti	Cle
4	9	1.15	0.18	Amphibole		MgSiCaFe			X	Acti	Cle

RJL: LLH901997-23	3158835.HTA4	Microscope tem2000fx1	Grid Openings	9
13 - RH #18	K & L Gates	Magnification 21 KX	Asbestos	0.0
Wt: 0.0 gm	Grid: 0.0088 mm ²	Acc. Voltage 120 KV	Asbestos >= 5µm	0.0
Dil: 1.	Filter Size: 47 mm	Operator: Jacquelyn Mershon	Nonasbestos	105.0
HQ45592		Cv = 0	Nonasbestos >= 5µm % Wt of largest asbestos structure	6.0 %

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
4	10	1.7	0.5	Amphibole		MgSiCaFe		Image13	X	Acti	Cle
5	1	2.44	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
5	2	2.07	0.4	Amphibole		MgSiCaFe			X	Acti	Cle
5	3	5.73	1.15	Amphibole		MgSiCaFe			X	Acti	Cle
5	4	2.39	0.45	Amphibole		MgSiCaFe			X	Acti	Cle
5	5	1.33	0.23	Amphibole		MgSiCaFe			X	Acti	Cle
5	6	1.84	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
5	7	2.14	0.3	Amphibole		MgSiCaFe	All6673C	Image6	Diff6	Acti	Cle
5	8	2.76	0.45	Amphibole		MgSiCaFe			X	Acti	Cle
5	9	1.04	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
6	1	1.38	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
6	2	2.76	0.35	Amphibole		MgSiCaFe			X	Acti	Cle
6	3	0.92	0.15	Amphibole		MgSiCaFe			X	Acti	Cle
6	4	1.38	0.25	Amphibole		MgSiCaFe			X	Acti	Cle
6	5	1.26	0.25	Amphibole		MgSiCaFe			X	Acti	Cle
6	6	1.61	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
6	7	3.22	0.4	Amphibole		MgSiCaFe			X	Acti	Cle
6	8	1.73	0.25	Amphibole		MgSiCaFe	All6674C	Image7	Diff7	Acti	Cle
6	9	2.53	0.45	Amphibole		MgSiCaFe			X	Acti	Cle
6	10	2	0.5	Amphibole		MgSiCaFe			X	Acti	Cle
7	1	5.06	0.35	Amphibole		MgSiCaFe		Image8	X	Acti	Cle
7	2	3.68	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
7	3	2.53	0.25	Amphibole		MgSiCaFe			X	Acti	Cle
7	4	1.84	0.25	Amphibole		MgSiCaFe			X	Acti	Cle
7	5	3.22	0.51	Amphibole		MgSiCaFe			X	Acti	Cle
7	6	1.48	0.25	Amphibole		MgSiCaFe			X	Acti	Cle
7	7	2.76	0.12	Amphibole		MgSiCaFe			X	Acti	Cle
7	8	2.34	0.46	Amphibole		MgSiCaFe			X	Acti	Cle
7	9	5.52	0.15	Amphibole		MgSiCaFe	All6675C	Image9	Diff8	Acti	Cle
7	10	2.29	0.4	Amphibole		MgSiCaFe			X	Acti	Cle
7	11	1.04	0.15	Amphibole		MgSiCaFe			X	Acti	Cle
7	12	1.33	0.25	Amphibole		MgSiCaFe			X	Acti	Cle
8	1	2.34	0.46	Amphibole		MgSiCaFe			X	Acti	Cle
8	2	1.84	0.25	Amphibole		MgSiCaFe			X	Acti	Cle
8	3	2.07	0.23	Amphibole		MgSiCaFe			X	Acti	Cle
8	4	1.96	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
8	5	1.61	0.28	Amphibole		MgSiCaFe			X	Acti	Cle
8	6	1.73	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
8	7	2.44	0.4	Amphibole		MgSiCaFe	All6676C	Image10	Diff9	Acti	Cle
8	8	1.04	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
8	9	2.29	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
8	10	2.07	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
8	11	2.76	0.46	Amphibole		MgSiCaFe			X	Acti	Cle
8	12	1.33	0.1	Amphibole		MgSiCaFe			X	Acti	Cle

RJ Lee Group, Inc.
TEM Count Sheet

RJL: LLH901997-23	3158835.HTA4	Microscope tem2000fx1	Grid Openings	9
13 - RH #18	K & L Gates	Magnification 21 KX	Asbestos	0.0
Wt: 0.0 gm	Grid: 0.0088 mm ²	Acc. Voltage 120 KV	Asbestos >= 5µm	0.0
Dil: 1.	Filter Size: 47 mm	Operator: Jacquelyn Mershon	Nonasbestos	105.0
HQ45592		Cv = 0	Nonasbestos >= 5µm	6.0
			% Wt of largest asbestos structure	%

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
8	13	2.44	0.25	Amphibole		MgSiCaFe			X	Acti	Cle
8	14	1.38	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
9	1	1.61	0.1	Amphibole		MgSiCaFe			X	Acti	Cle
9	2	1.96	0.35	Amphibole		MgSiCaFe			X	Acti	Cle
9	3	2.07	0.28	Amphibole		MgSiCaFeAl	6677C	Image11	Diff10	Acti	Cle
9	4	1.04	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
9	5	1.73	0.28	Amphibole		MgSiCaFe			X	Acti	Cle
9	6	1.26	0.15	Amphibole		MgSiCaFe			X	Acti	Cle
9	7	2.29	0.46	Amphibole		MgSiCaFe			X	Acti	Cle
9	8	1.15	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
9	9	2.29	0.45	Amphibole		MgSiCaFe			X	Acti	Cle
9	10	1.38	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
9	11	1.38	0.15	Amphibole		MgSiCaFe			X	Acti	Cle
9	12	4.14	0.46	Amphibole		MgSiCaFe			X	Acti	Cle
9	13	3.57	0.35	Amphibole		MgSiCaFeAl	6678C	Image12	Diff11	Acti	Cle
9	14	1.73	0.25	Amphibole		MgSiCaFe			X	Acti	Cle
9	15	2.76	0.46	Amphibole		MgSiCaFe			X	Acti	Cle

7% Particulate

Analyst's Comments: N/A

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 8/5/2020 1:54:31 PM approve by Jacquelyn Mershon

Final Review: 8/12/20 12:05 PM approve by Ashleigh Sload

RJL: LLH901997-23	3158835.HTA4	Microscope tem2000fx1	Grid Openings	25
13 - RH #18	K & L Gates	Magnification 10 KX	Asbestos	0.0
Wt: 0.0 gm	Grid: 0.0088 mm ²	Acc. Voltage 120 KV	Nonasbestos	15.0
Dil: 1.	Filter Size: 47 mm	Operator: Jacquelyn Mershon	% Wt of largest asbestos	%
HQ45592		Cv = 0	structure	

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1				NSD							
2	1	5.4	1.03	Amphibole		MgSiCaFeAl	6679C	Image1	Diff1	Acti	Cle
3				NSD							
4				NSD							
5				NSD							
6				NSD							
7				NSD							
8	1	5.18	0.36	Amphibole		MgSiCaFe			X	Acti	Cle
9	1	6.12	1.08	Amphibole		MgSiCaFe			X	Acti	Cle
10	1	5.58	0.18	Amphibole		MgSiCaFe			X	Acti	Cle
11				NSD							
12	1	6.12	0.41	Amphibole		MgSiCaFe			X	Acti	Cle
12	2	6.3	1.08	Amphibole		MgSiCaFe			X	Acti	Cle
12	3	6.3	0.45	Amphibole		MgSiCaFe			X	Acti	Cle
13	1	5.85	0.72	Amphibole		MgSiCaFe			X	Acti	Cle
14	1	6.74	0.45	Amphibole		MgSiCaFeAl	6680C	Image2	Diff2	Acti	Cle
15				NSD							
16				NSD							
17	1	6.74	0.72	Amphibole		MgSiCaFe			X	Acti	Cle
18				NSD							
19				NSD							
20				NSD							
21	1	8.98	0.72	Amphibole		MgSiCaFe			X	Acti	Cle
22	1	5.76	1.08	Amphibole		MgSiCaFe			X	Acti	Cle
23				NSD							
24	1	17.96	1.17	Amphibole		MgSiCaFe			X	Acti	Cle
24	2	5.33	0.36	Amphibole		MgSiCaFe			X	Acti	Cle
25	1	6.3	0.99	Amphibole		MgSiCaFe			X	Acti	Cle

7% Particulate

Analyst's Comments: N/A

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 8/5/2020 2:47:25 PM approve by Jacquelyn Mershon

Final Review: 8/12/20 12:05 PM approve by Ashleigh Sload

Final Laboratory Report

TEM Bulk Protocol

Attention: David Raphael
K & L Gates
17 North Second Street
Harrisburg, PA 17101
US

Report Date: 08/12/2020
Sample Receipt Date:
RJ Lee Group Job No.: LLH901997-23
Authorization/P.O. No.:
Samples Received: 1
Client Job No.:

Method: ISO 22262-2

TABLE 1 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos

Client Sample Number	RJLG Sample Number	<u>Total Structures</u>				-----Weight Percent----- <u>Total Structures</u> Analytical Sensitivity			
		Chry	Amph	Cleavage	Non Asbestos	Chry	Amph Asb	Amph Cleavage Fragment	Non Asbestos
13 - RH #18	3158835	0	0	120	0	<u>< 4.8E-5</u> 4.8E-5	<u>< 3.9E-5</u> 3.9E-5	<u>2.4E1</u> 3.9E-5	<u>< 3.6E-5</u> 3.6E-5

NOTES

1. "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
2. Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
3. If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
4. Density of amphibole: 3.2×10^{-3} ng/ μ m³, density of chrysotile: 2.55×10^{-3} ng/ μ m³, density of non-asbestos: 3.00×10^{-3} ng/ μ m³.
5. Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
6. Samples will be held for 90 days and then disposed of per Federal regulations.
7. These results are submitted pursuant to RJ Lee Group'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 these results are used or interpreted.

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These results are submitted pursuant to RJ Lee Group's current terms and conditions of sale, including the company's standard warranty and limiting provisions and 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, RJ Lee Group will store the samples for a period of ninety (90) days before discarding. A shipping and handling fee will be assessed for the return of any sample.

RJ Lee Group Job No: LLH901997-23
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/12/2020

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos 5 μm

Client Sample Number	RJLG Sample Number	-----Structures 5 μm-----				-----Weight Percent----- Structures 5 μm Analytical Sensitivity			
		Chry	Amph	Cleavage	Non-Asbestos	Chry	Asb	Cleavage Fragment	Non-Asbestos
13 - RH #18	3158835	0	0	21	0	<u>< 4.8E-4</u> 4.8E-4	<u>< 3.9E-4</u> 3.9E-4	<u>2.1E1</u> 3.9E-4	<u>< 3.6E-4</u> 3.6E-4

NOTES

- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2×10^{-3} ng/μm³, density of chrysotile: 2.55×10^{-3} ng/μm³, density of non-asbestos: 3.00×10^{-3} ng/μm³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
- These results are submitted pursuant to RJ Lee Group'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 these results are used or interpreted.

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RJ Lee Group, Inc.

RJ Lee Group Job No: LLH901997-23
Client Job No/Name:

Final Laboratory Report (cont'd)

Client: K & L Gates
Report Date: 08/12/2020

Client Sample Number	RJLG Sample Number	Material Used (gm)	Area Analyzed Total (mm ²)	Area Analyzed 5 μm (mm ²)	Effective Filter Area (mm ²)	Dilution Factor
13 - RH #18	3158835	0.00002	0.29998	0.29998	1220	1.0

Authorized Signature:



Ashleigh Sload, Scientist

NOTES

- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2×10^{-3} ng/μm³, density of chrysotile: 2.55×10^{-3} ng/μm³, density of non-asbestos: 3.00×10^{-3} ng/μm³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
- These results are submitted pursuant to RJ Lee Group'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 these results are used or interpreted.

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RJ Lee Group, Inc
LLH901997-23
3158835.HTA4

K & L Gates
13 - RH #18

05-Aug-20

Air volume:
Area of collection filter:
Volume flowrate:
Level of analysis (chrysotile): NA
Level of analysis (amphibole): AZZQ
Magnification used for structure counting:
Aspect ratio for fibre definition: 3:1
Mean dimension of grid openings: 0.00882281
Initials of analyst: JM
Number of grid openings examined: 34
Analytical sensitivity:
Number of primary asbestos structures: 119
Number of asbestos structures counted: 119
Number of asbestos structures >5 µm: 20
Number of fibres and bundles > 5 µm: 20
Number of PCM equivalent asbestos structures: 18
Number of PCM equivalent asbestos fibres: 18

TEM asbestos structure count					
Report Number:	LLH901997-23			Sample Weight:	0.000021
Sample Number:	3158835.HTA4			Filter area (mm ²):	1220
Sample Description:	13 - RH #18			Magnification:	10/20 KX
				Grid opening dimension (mm ²)	0.00882281
Preparation date:	08/5/20	By:	MK		
Analysis date:	08/5/20	By:	JM	Level of analysis (chrysotile)	NA
Computer entry date:	08/9/20	By:	MMK	Level of analysis (amphibole)	AZZQ

Grid	Grid Opening	Structures		Identification	Structure type	Length (µm)	Width (µm)	Fibre Type	Comments
		primary	total						
1	H1	1	1	AZQ	F	2.49	0.28	Actinolite	
		2	2	ADX	F	4.14	0.56	Actinolite	
		3	3	ADX	F	3.91	0.46	Actinolite	
		4	4	ADX	F	1.15	0.2	Actinolite	
		5	5	ADX	F	1.84	0.35	Actinolite	
		6	6	ADX	F	1.53	0.25	Actinolite	
		7	7	ADX	F	1.38	0.15	Actinolite	
		8	8	ADX	F	2.39	0.4	Actinolite	
		9	9	ADX	F	1.84	0.33	Actinolite	
	H3	10	10	ADX	F	2.53	0.3	Actinolite	
		11	11	AZQ	F	1.96	0.23	Actinolite	
		12	12	ADX	F	1.53	0.15	Actinolite	
		13	13	ADX	F	10.58	1.15	Actinolite	
		14	14	ADX	F	2.76	0.45	Actinolite	
		15	15	ADX	F	2.07	0.35	Actinolite	
		16	16	ADX	F	2.29	0.3	Actinolite	
		17	17	ADX	F	1.84	0.3	Actinolite	
		18	18	ADX	F	1.38	0.25	Actinolite	
		19	19	ADX	F	1.61	0.3	Actinolite	
		20	20	ADX	F	1.53	0.2	Actinolite	
		21	21	AZQ	F	2.19	0.23	Actinolite	
	I6	22	22	ADX	F	2.76	0.46	Actinolite	
		23	23	ADX	F	2.65	0.51	Actinolite	
		24	24	ADX	F	1.2	0.23	Actinolite	
		25	25	ADX	F	4.37	0.82	Actinolite	
		26	26	ADX	F	1.26	0.25	Actinolite	
		27	27	ADX	F	2.07	0.3	Actinolite	
		28	28	ADX	F	1.38	0.2	Actinolite	
		29	29	ADX	F	1.53	0.3	Actinolite	
		30	30	ADX	F	1.61	0.25	Actinolite	
		31	31	AZQ	F	4.37	0.45	Actinolite	
		32	32	ADX	F	2.53	0.23	Actinolite	
		33	33	ADX	F	1.38	0.12	Actinolite	
		34	34	ADX	F	1.15	0.2	Actinolite	
		35	35	ADX	F	1.53	0.2	Actinolite	
	I8	36	36	ADX	F	17.64	2.76	Actinolite	
		37	37	ADX	F	1.2	0.15	Actinolite	
		38	38	ADX	F	5.73	0.82	Actinolite	
		39	39	ADX	F	2.45	0.23	Actinolite	
		40	40	ADX	F	1.04	0.2	Actinolite	
		41	41	AZQ	F	3.44	0.25	Actinolite	
		42	42	ADX	F	1.53	0.25	Actinolite	
		43	43	ADX	F	2.99	0.56	Actinolite	

TEM asbestos structure count					
Report Number:	LLH901997-23				
Sample Number:	3158835.HTA4			Sample Weight:	0.000021
Sample Description:	13 - RH #18			Filter area (mm ²):	1220
				Magnification:	10/20 KX
				Grid opening dimension (mm ²):	0.00882281
Preparation date:	08/5/20	By:	MK		
Analysis date:	08/5/20	By:	JM	Level of analysis (chrysotile)	NA
Computer entry date:	08/9/20	By:	MMK	Level of analysis (amphibole)	AZZQ

Grid	Grid Opening	Structures		Identification	Structure type	Length (µm)	Width (µm)	Fibre Type	Comments
		primary	total						
		44	44	ADX	F	1.15	0.18	Actinolite	
		45	45	ADX	F	1.7	0.5	Actinolite	
	J10	46	46	ADX	F	2.44	0.3	Actinolite	
		47	47	ADX	F	2.07	0.4	Actinolite	
		48	48	ADX	F	5.73	1.15	Actinolite	
		49	49	ADX	F	2.39	0.45	Actinolite	
		50	50	ADX	F	1.33	0.23	Actinolite	
		51	51	AZQ	F	1.84	0.3	Actinolite	
		52	52	ADX	F	2.14	0.3	Actinolite	
		53	53	ADX	F	2.76	0.45	Actinolite	
		54	54	ADX	F	1.04	0.2	Actinolite	
	B2			No Fibres					
	B4			AZQ		10.8	1.03	Actinolite	Not tabulated; touches left grid bar
	B8			No Fibres					
	B10			No Fibres					
	D10			No Fibres					
	D8			No Fibres					
	D6			No Fibres					
	D4	55	55	ADX	F	5.18	0.36	Actinolite	
	D2	56	56	ADX	F	6.12	1.08	Actinolite	
	F1	57	57	ADX	F	5.58	0.18	Actinolite	
	F3			No Fibres					
	F7	58	58	ADX	F	6.12	0.41	Actinolite	
		59	59	ADX	F	6.3	1.08	Actinolite	
		60	60	ADX	F	6.3	0.45	Actinolite	
2	F9	61	61	ADX	F	5.85	0.72	Actinolite	
	B2	62	62	ADX	F	6.74	0.45	Actinolite	
	B4			No Fibres					
	B6			No Fibres					
	D9	63	63	ADX	F	6.74	0.72	Actinolite	
	D7			No Fibres					
	D5			No Fibres					
	D3			No Fibres					
	D1	64	64	ADX	F	8.98	0.72	Actinolite	
	F2	65	65	ADX	F	5.76	1.08	Actinolite	
	F4			No Fibres					
	F8	66	66	ADX	F	17.96	1.17	Actinolite	
		67	67	ADX	F	5.33	0.36	Actinolite	
	F10	68	68	ADX	F	6.3	0.99	Actinolite	
	H1	69	69	ADX	F	1.38	0.2	Actinolite	

TEM asbestos structure count					
Report Number:	LLH901997-23			Sample Weight:	0.000021
Sample Number:	3158835.HTA4			Filter area (mm ²):	1220
Sample Description:	13 - RH #18			Magnification:	10/20 KX
				Grid opening dimension (mm ²)	0.00882281
Preparation date:	08/5/20	By:	MK		
Analysis date:	08/5/20	By:	JM	Level of analysis (chrysotile)	NA
Computer entry date:	08/9/20	By:	MMK	Level of analysis (amphibole)	AZZQ

Grid	Grid Opening	Structures		Identification	Structure type	Length (µm)	Width (µm)	Fibre Type	Comments
		primary	total						
		70	70	ADX	F	2.76	0.35	Actinolite	
		71	71	ADX	F	0.92	0.15	Actinolite	
		72	72	ADX	F	1.38	0.25	Actinolite	
		73	73	ADX	F	1.26	0.25	Actinolite	
		74	74	ADX	F	1.61	0.3	Actinolite	
		75	75	ADX	F	3.22	0.4	Actinolite	
		76	76	AZQ	F	1.73	0.25	Actinolite	
		77	77	ADX	F	2.53	0.45	Actinolite	
		78	78	ADX	F	2	0.5	Actinolite	
	H3	79	79	ADX	F	5.06	0.35	Actinolite	
		80	80	ADX	F	3.68	0.3	Actinolite	
		81	81	ADX	F	2.53	0.25	Actinolite	
		82	82	ADX	F	1.84	0.25	Actinolite	
		83	83	ADX	F	3.22	0.51	Actinolite	
		84	84	ADX	F	1.48	0.25	Actinolite	
		85	85	ADX	F	2.76	0.12	Actinolite	
		86	86	ADX	F	2.34	0.46	Actinolite	
		87	87	AZQ	F	5.52	0.15	Actinolite	
		88	88	ADX	F	2.29	0.4	Actinolite	
		89	89	ADX	F	1.04	0.15	Actinolite	
		90	90	ADX	F	1.33	0.25	Actinolite	
	H5	91	91	ADX	F	2.34	0.46	Actinolite	
		92	92	ADX	F	1.84	0.25	Actinolite	
		93	93	ADX	F	2.07	0.23	Actinolite	
		94	94	ADX	F	1.96	0.3	Actinolite	
		95	95	ADX	F	1.61	0.28	Actinolite	
		96	96	ADX	F	1.73	0.3	Actinolite	
		97	97	AZQ	F	2.44	0.4	Actinolite	
		98	98	ADX	F	1.04	0.2	Actinolite	
		99	99	ADX	F	2.29	0.2	Actinolite	
		100	100	ADX	F	2.07	0.3	Actinolite	
		101	101	ADX	F	2.76	0.46	Actinolite	
		102	102	ADX	F	1.33	0.1	Actinolite	
		103	103	ADX	F	2.44	0.25	Actinolite	
		104	104	ADX	F	1.38	0.2	Actinolite	
	H7	105	105	ADX	F	1.61	0.1	Actinolite	
		106	106	ADX	F	1.96	0.35	Actinolite	
		107	107	AZQ	F	2.07	0.28	Actinolite	
		108	108	ADX	F	1.04	0.2	Actinolite	
		109	109	ADX	F	1.73	0.28	Actinolite	
		110	110	ADX	F	1.26	0.15	Actinolite	
		111	111	ADX	F	2.29	0.46	Actinolite	
		112	112	ADX	F	1.15	0.2	Actinolite	

TEM asbestos structure count					
Report Number:	LLH901997-23				
Sample Number:	3158835.HTA4		Sample Weight:	0.000021	
Sample Description:	13 - RH #18		Filter area (mm ²):	1220	
			Magnification:	10/20 KX	
			Grid opening dimension (mm ²)	0.00882281	
Preparation date:	08/5/20	By:	MK		
Analysis date:	08/5/20	By:	JM	Level of analysis (chrysotile)	NA
Computer entry date:	08/9/20	By:	MMK	Level of analysis (amphibole)	AZZQ

Grid	Grid Opening	Structues		Identification	Structure type	Length (µm)	Width (µm)	Fibre Type	Comments
		primary	total						
		113	113	ADX	F	2.29	0.45	Actinolite	
		114	114	ADX	F	1.38	0.2	Actinolite	
		115	115	ADX	F	1.38	0.15	Actinolite	
		116	116	ADX	F	4.14	0.46	Actinolite	
		117	117	AZQ	F	3.57	0.35	Actinolite	
		118	118	ADX	F	1.73	0.25	Actinolite	
		119	119	ADX	F	2.76	0.46	Actinolite	

Final Laboratory Report

TEM Bulk Protocol

Attention: David Raphael
K & L Gates
17 North Second Street
Harrisburg, PA 17101
US

Report Date: 08/13/2020
Sample Receipt Date:
RJ Lee Group Job No.: LLH901997-23
Authorization/P.O. No.:
Samples Received: 1
Client Job No.:

Method: EPA/R-93/600/116

TABLE 1 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos

Client Sample Number	RJLG Sample Number	<u>Total Structures</u>				-----Weight Percent----- <u>Total Structures</u> Analytical Sensitivity			
		Chry	Amph	Cleavage	Non Asbestos	Chry	Amph Asb	Amph Cleavage Fragment	Non Asbestos
14 - RH #22	3158836	0	0	2	5	< 2.0E-6 2.0E-6	< 2.5E-6 2.5E-6	3.6E-3 1.6E-6	2.4E-2 1.5E-6

NOTES

1. "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
2. Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
3. If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
4. Density of amphibole: 3.2×10^{-3} ng/ μ m³, density of chrysotile: 2.55×10^{-3} ng/ μ m³, density of non-asbestos: 3.00×10^{-3} ng/ μ m³.
5. Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
6. Samples will be held for 90 days and then disposed of per Federal regulations.
7. These results are submitted pursuant to RJ Lee Group'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 these results are used or interpreted.

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RJ Lee Group Job No: LLH901997-23
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/13/2020

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos 5 µm

Client Sample Number	RJLG Sample Number	-----Structures 5 µm-----				-----Weight Percent----- Structures 5 µm Analytical Sensitivity			
		Chry	Amph	Cleavage	Non-Asbestos	Amphibole			
						Chry	Asb	Cleavage Fragment	Non-Asbestos
14 - RH #22	3158836	0	0	0	1	<u>< 2.0E-5</u> 2.0E-5	<u>< 2.5E-5</u> 2.5E-5	<u>< 1.6E-5</u> 1.6E-5	<u>1.8E-2</u> 1.5E-5

NOTES

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- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2×10^{-3} ng/µm³, density of chrysotile: 2.55×10^{-3} ng/µm³, density of non-asbestos: 3.00×10^{-3} ng/µm³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
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RJ Lee Group, Inc.

RJ Lee Group Job No: LLH901997-23
Client Job No/Name:

Final Laboratory Report (cont'd)

Client: K & L Gates
Report Date: 08/13/2020

Client Sample Number	RJLG Sample Number	Material Used (gm)	Area Analyzed Total (mm ²)	Area Analyzed 5 μm (mm ²)	Effective Filter Area (mm ²)	Dilution Factor
14 - RH #22	3158836	0.0005	0.30731	0.30731	1220	1.0

Authorized Signature: 
Ashleigh Sload, Scientist

NOTES

- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2×10^{-3} ng/μm³, density of chrysotile: 2.55×10^{-3} ng/μm³, density of non-asbestos: 3.00×10^{-3} ng/μm³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
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RJL: LLH901997-23	3158836.HTA1	Microscope tem2000fx1	Grid Openings	10
14 - RH #22	K & L Gates	Magnification 21 KX	Asbestos	0.0
Wt: 0.0005 gm	Grid: 0.0088 mm ²	Acc. Voltage 120 KV	Asbestos >= 5µm	0.0
Dil: 1.0	Filter Size: 47 mm	Operator: Jacquelyn Mershon	Nonasbestos	7.0
HQ45446		Cv = 0	Nonasbestos >= 5µm	1.0
			% Wt of largest asbestos structure	%

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1	1	2.37	0.35	Non-Asbestos		NaAlSiCaFe	16755C	Image5	X		
2				NSD							
3				NSD							
4				NSD							
5	1	1.45	0.45	Non-Asbestos		NaAlSiCaFe			X		
5	2	1.45	0.11	Amphibole		MgSiCaFeAl	16756C	Image6	Diff3	Acti	Cle
6	1	2.32	0.35	Non-Asbestos		NaAlSiCaFe			X		
6	2	2.7	0.56	Amphibole		MgSiCaFe			X	Acti	Cle
7				NSD							
8				NSD							
9	1	6.07	0.85	Non-Asbestos		MgAlCaFe	16757C	Image8	Diff5 Diff6	OPX	
10	1	2.42	0.45	Non-Asbestos		NaAlSiCaFe			X		

14% Particulate

Analyst's Comments: Grids 4 and 5

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 8/5/2020 8:48:11 AM approve by Jacquelyn Mershon

Final Review: 8/13/20 10:39 AM approve by Ashleigh Sload

RJL: LLH901997-23	3158836.HTA1	Microscope tem2000fx1	Grid Openings	25
14 - RH #22	K & L Gates	Magnification 10 KX	Asbestos	0.0
Wt: 0.0005 gm	Grid: 0.0088 mm ²	Acc. Voltage 120 KV	Nonasbestos	0.0
Dil: 1.0	Filter Size: 47 mm	Operator: Jacquelyn Mershon	% Wt of largest asbestos	%
HQ45446		Cv = 0	structure	

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1				NSD							
2				NSD							
3				NSD							
4				NSD							
5				NSD							
6				NSD							
7				NSD							
8				NSD							
9				NSD							
10				NSD							
11				NSD							
12				NSD							
13				NSD							
14				NSD							
15				NSD							
16				NSD							
17				NSD							
18				NSD							
19				NSD							
20				NSD							
21				NSD							
22				NSD							
23				NSD							
24				NSD							
25				NSD							

14% Particulate

Analyst's Comments: Grids 4 and 5

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 8/5/2020 7:34:16 AM approve by Jacquelyn Mershon

Final Review: 8/13/20 10:39 AM approve by Ashleigh Sload

Final Laboratory Report

TEM Bulk Protocol

Attention: David Raphael
K & L Gates
17 North Second Street
Harrisburg, PA 17101
US

Report Date: 08/13/2020
Sample Receipt Date:
RJ Lee Group Job No.: LLH901997-23
Authorization/P.O. No.:
Samples Received: 1
Client Job No.:

Method: ISO 22262-2

TABLE 1 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos

Client Sample Number	RJLG Sample Number	<u>Total Structures</u>				-----Weight Percent----- <u>Total Structures</u> Analytical Sensitivity			
		Chry	Amph	Cleavage	Non Asbestos	Chry	Amph Asb	Amph Cleavage Fragment	Non Asbestos
14 - RH #22	3158836	0	0	2	5	< 2.0E-6 2.0E-6	< 1.6E-6 1.6E-6	3.6E-3 1.6E-6	2.4E-2 1.5E-6

NOTES

1. "<" indicates results less than analytical sensitivity. "----" indicates that sample was not analyzed.
2. Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
3. If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
4. Density of amphibole: 3.2×10^{-3} ng/ μ m³, density of chrysotile: 2.55×10^{-3} ng/ μ m³, density of non-asbestos: 3.00×10^{-3} ng/ μ m³.
5. Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
6. Samples will be held for 90 days and then disposed of per Federal regulations.
7. These results are submitted pursuant to RJ Lee Group'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 these results are used or interpreted.

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RJ Lee Group Job No: LLH901997-23
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/13/2020

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos 5 μm

Client Sample Number	RJLG Sample Number	-----Structures 5 μm-----				-----Weight Percent----- Structures 5 μm Analytical Sensitivity			
		Chry	Amph	Cleavage	Non-Asbestos	Amphibole			
						Chry	Asb	Cleavage Fragment	Non-Asbestos
14 - RH #22	3158836	0	0	0	1	<u>< 2.0E-5</u> 2.0E-5	<u>< 1.6E-5</u> 1.6E-5	<u>< 1.6E-5</u> 1.6E-5	<u>1.8E-2</u> 1.5E-5

NOTES

- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2 * 10⁻³ ng/ μ m³, density of chrysotile: 2.55 * 10⁻³ ng/ μ m³, density of non-asbestos: 3.00 * 10⁻³ ng/ μ m³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
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RJ Lee Group, Inc.

RJ Lee Group Job No: LLH901997-23
Client Job No/Name:

Final Laboratory Report (cont'd)

Client: K & L Gates
Report Date: 08/13/2020

Client Sample Number	RJLG Sample Number	Material Used (gm)	Area Analyzed Total (mm ²)	Area Analyzed 5 μm (mm ²)	Effective Filter Area (mm ²)	Dilution Factor
14 - RH #22	3158836	0.0005	0.30731	0.30731	1220	1.0

Authorized Signature: 
Ashleigh Sload, Scientist

NOTES

- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2×10^{-3} ng/μm³, density of chrysotile: 2.55×10^{-3} ng/μm³, density of non-asbestos: 3.00×10^{-3} ng/μm³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
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RJ Lee Group, Inc
LLH901997-23
3158836.HTA1

K & L Gates
14 - RH #22

04-Aug-20

Air volume:
Area of collection filter:
Volume flowrate:
Level of analysis (chrysotile): NA
Level of analysis (amphibole): AZQ 0
Magnification used for structure counting:
Aspect ratio for fibre definition: 3:1
Mean dimension of grid openings: 0.00878032
Initials of analyst: JM
Number of grid openings examined: 35
Analytical sensitivity:
Number of primary asbestos structures: 2
Number of asbestos structures counted: 2
Number of asbestos structures >5 µm: 0
Number of fibres and bundles > 5 µm: 0
Number of PCM equivalent asbestos structures: 0
Number of PCM equivalent asbestos fibres: 0

TEM asbestos structure count					
Report Number:	LLH901997-23				
Sample Number:	3158836.HTA1		Sample Weight:	0.0005	
Sample Description:	14 - RH #22		Filter area (mm ²):	1220	
			Magnification:	10/20 KX	
			Grid opening dimension (mm ²)	0.00878032	
Preparation date:	06/9/20	By:	RAM		
Analysis date:	08/4/20	By:	JM	Level of analysis (chrysotile)	NA
Computer entry date:	08/9/20	By:	MMK	Level of analysis (amphibole)	AZQ

Grid	Grid Opening	Structures		Identification	Structure type	Length (µm)	Width (µm)	Fibre Type	Comments
		primary	total						
4	I1			NAM		2.37	0.35		
	I3			No Fibres					
	I5			No Fibres					
	I7			No Fibres					
	I9			NAM		1.45	0.45		
		1	1	AZQ	F	1.45	0.11		
5	I2			NAM		2.32	0.35		
		2	2	AZQ		2.7	0.56		
	I4			No Fibres					
	I6			No Fibres					
	I8			NAM		6.07	0.85		
	I10			NAM		2.42	0.45		
4	B1			No Fibres					
	B3			No Fibres					
	B5			No Fibres					
	B9			No Fibres					
	D10			No Fibres					
	D6			No Fibres					
	D4			No Fibres					
	D2			No Fibres					
	F1			No Fibres					
	F3			No Fibres					
	F7			No Fibres					
	F9			No Fibres					
5	A1			No Fibres					
	A3			No Fibres					
	A5			No Fibres					
	C10			No Fibres					
	C8			No Fibres					
	C6			No Fibres					
	C4			No Fibres					
	C2			No Fibres					
	E1			No Fibres					
	E8			No Fibres					
	E10			No Fibres					
	G9			No Fibres					
	G7			No Fibres					

Final Laboratory Report

TEM Bulk Protocol

Attention: David Raphael
K & L Gates
17 North Second Street
Harrisburg, PA 17101
US

Report Date: 08/11/2020
Sample Receipt Date:
RJ Lee Group Job No.: LLH901997-23
Authorization/P.O. No.:
Samples Received: 1
Client Job No.:

Method: EPA/R-93/600/116

TABLE 1 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos

Client Sample Number	RJLG Sample Number	Total Structures				-----Weight Percent----- Total Structures Analytical Sensitivity			
		Chry	Amph	Cleavage	Non Asbestos	Chry	Amph Asb	Amph Cleavage Fragment	Non Asbestos
15 - RH #23	3158837	0	0	71	14	< 3.0E-5 3.0E-5	< 3.8E-5 3.8E-5	2.6E0 2.4E-5	3.0E-2 2.3E-5

NOTES

- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2×10^{-3} ng/ μ m³, density of chrysotile: 2.55×10^{-3} ng/ μ m³, density of non-asbestos: 3.00×10^{-3} ng/ μ m³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
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RJ Lee Group Job No: LLH901997-23
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/11/2020

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos 5 μm

Client Sample Number	RJLG Sample Number	-----Structures 5 μm-----				-----Weight Percent----- Structures 5 μm Analytical Sensitivity			
		Chry	Amph	Cleavage	Non-Asbestos	Amphibole		Cleavage Fragment	Non-Asbestos
15 - RH #23	3158837	0	0	10	0	<u>< 3.0E-4</u> 3.0E-4	<u>< 3.8E-4</u> 3.8E-4	<u>1.7E0</u> 2.4E-4	<u>< 2.3E-4</u> 2.3E-4

NOTES

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RJ Lee Group, Inc.

RJ Lee Group Job No: LLH901997-23
Client Job No/Name:

Final Laboratory Report (cont'd)

Client: K & L Gates
Report Date: 08/11/2020

Client Sample Number	RJLG Sample Number	Material Used (gm)	Area Analyzed Total (mm ²)	Area Analyzed 5 μm (mm ²)	Effective Filter Area (mm ²)	Dilution Factor
15 - RH #23	3158837	0.00003	0.30880	0.30880	1220	1.0

Authorized Signature: 
Ashleigh Sload, Scientist

NOTES

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- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
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- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
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RJL: LLH901997-23	3158837.HTA4	Microscope tem2000fx1	Grid Openings	10
15 - RH #23	K & L Gates	Magnification 21 KX	Asbestos	0.0
Wt: 0.0 gm	Grid: 0.0088 mm ²	Acc. Voltage 120 KV	Asbestos >= 5µm	0.0
Dil: 1.	Filter Size: 47 mm	Operator: Jacquelyn Mershon	Nonasbestos	79.0
HQ45592		Cv = 0	Nonasbestos >= 5µm	4.0
			% Wt of largest asbestos structure	%

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1	1	0.92	0.1	Non-Asbestos		AlSi	16681C	Image1	X		
1	2	0.92	0.15	Non-Asbestos		AlSi			X		
1	3	1.96	0.18	Amphibole		MgSiCaFeAl	16682C	Image2	Diff2	Acti	Cle
1	4	1.48	0.25	Amphibole		MgSiCaFe			X	Acti	Cle
1	5	3.12	0.25	Amphibole		MgSiCaFe			X	Acti	Cle
1	6	1.38	0.25	Amphibole		MgSiCaFe			X	Acti	Cle
1	7	1.61	0.25	Amphibole		MgSiCaFe			X	Acti	Cle
1	8	1.38	0.1	Amphibole		MgSiCaFe			X	Acti	Cle
1	9	1.33	0.12	Amphibole		MgSiCaFe			X	Acti	Cle
1	10	1.1	0.15	Amphibole		MgSiCaFe			X	Acti	Cle
2	1	2.07	0.15	Amphibole		MgSiCaFe			X	Acti	Cle
2	2	1.04	0.15	Amphibole		MgSiCaFe			X	Acti	Cle
2	3	4.03	0.28	Amphibole		MgSiCaFeAl	16683C	Image3	Diff3	Acti	Cle
2	4	4.68	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
2	5	2.07	0.15	Amphibole		MgSiCaFe			X	Acti	Cle
2	6	2.65	0.46	Amphibole		MgSiCaFe			X	Acti	Cle
3	1	1.38	0.25	Amphibole		MgSiCaFe			X	Acti	Cle
3	2	1.53	0.15	Non-Asbestos		AlSi			X		
3	3	1.04	0.15	Non-Asbestos		AlSi			X		
3	4	1.84	0.25	Amphibole		MgSiCaFe			X	Acti	Cle
3	5	1.15	0.15	Amphibole		MgSiCaFe			X	Acti	Cle
3	6	1.84	0.25	Amphibole		MgSiCaFe			X	Acti	Cle
3	7	1.04	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
3	8	2.39	0.28	Amphibole		MgSiCaFe			X	Acti	Cle
3	9	4.14	0.51	Amphibole		MgSiCaFeAl	16684C	Image4	Diff4	Acti	Cle
4	1	1.04	0.12	Non-Asbestos		AlSi			X		
4	2	1.15	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
4	3	3.44	0.45	Amphibole		MgSiCaFe			X	Acti	Cle
4	4	3.91	0.56	Amphibole		MgSiCaFe			X	Acti	Cle
4	5	2.02	0.1	Amphibole		MgSiCaFe			X	Acti	Cle
4	6	2.14	0.4	Amphibole		MgSiCaFe			X	Acti	Cle
4	7	1.48	0.15	Amphibole		MgSiCaFe			X	Acti	Cle
4	8	1.96	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
4	9	2.99	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
4	10	7.36	0.4	Amphibole		MgSiCaFe		Image5	X	Acti	Cle
4	11	1.04	0.12	Non-Asbestos		AlSi			X		
4	12	2.76	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
5	1	1.25	0.08	Non-Asbestos		AlSi			X		
5	2	2.53	0.46	Amphibole		MgSiCaFeAl	16685C	Image6	Diff5	Acti	Cle
5	3	1.53	0.15	Amphibole		MgSiCaFe			X	Acti	Cle
5	4	5.73	1	Amphibole		MgSiCaFe			X	Acti	Cle
5	5	1.73	0.1	Non-Asbestos		AlSi			X		
6	1	2.29	0.35	Amphibole		MgSiCaFe			X	Acti	Cle
6	2	1.58	0.2	Non-Asbestos		AlSi			X		

RJL: LLH901997-23	3158837.HTA4	Microscope tem2000fx1	Grid Openings	10
15 - RH #23	K & L Gates	Magnification 21 KX	Asbestos	0.0
Wt: 0.0 gm	Grid: 0.0088 mm ²	Acc. Voltage 120 KV	Asbestos >= 5µm	0.0
Dil: 1.	Filter Size: 47 mm	Operator: Jacquelyn Mershon	Nonasbestos	79.0
HQ45592		Cv = 0	Nonasbestos >= 5µm	4.0
			% Wt of largest asbestos structure	%

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
6	3	2.66	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
6	4	1.58	0.2	Non-Asbestos		NaAlSiCa	16686C	Image7	X		
6	5	2.76	0.45	Amphibole		MgSiCaFe			X	Acti	Cle
6	6	1.73	0.15	Non-Asbestos		AlSi			X		
6	7	1.61	0.28	Amphibole		MgSiCaFe			X	Acti	Cle
7	1	1.15	0.12	Amphibole		MgSiCaFe			X	Acti	Cle
7	2	1.61	0.25	Non-Asbestos		AlSi			X		
7	3	1.53	0.12	Amphibole		MgSiCaFe			X	Acti	Cle
7	4	2.39	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
7	5	1.48	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
8	1	3.44	0.46	Amphibole		MgSiCaFeAl	16687C	Image8	Diff6	Acti	Cle
8	2	2.07	0.15	Amphibole		MgSiCaFe			X	Acti	Cle
8	3	0.97	0.08	Non-Asbestos		AlSi			X		
8	4	2.07	0.23	Amphibole		MgSiCaFe			X	Acti	Cle
8	5	3.91	0.45	Amphibole		MgSiCaFe			X	Acti	Cle
8	6	6.44	0.69	Amphibole		MgSiCaFe			X	Acti	Cle
8	7	5.98	0.69	Amphibole		MgSiCaFe			X	Acti	Cle
8	8	1.96	0.33	Amphibole		MgSiCaFe			X	Acti	Cle
8	9	1.15	0.1	Amphibole		MgSiCaFe			X	Acti	Cle
9	1	2.29	0.25	Amphibole		MgSiCaFe			X	Acti	Cle
9	2	2.91	0.56	Amphibole		MgSiCaFe			X	Acti	Cle
9	3	2.34	0.3	Amphibole		MgSiCaFeAl	16688C	Image9	Diff7	Acti	Cle
9	4	1.96	0.35	Amphibole		MgSiCaFe			X	Acti	Cle
9	5	1.61	0.23	Amphibole		MgSiCaFe			X	Acti	Cle
9	6	1.15	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
9	7	3.91	0.15	Amphibole		MgSiCaFe			X	Acti	Cle
9	8	1.84	0.35	Amphibole		MgSiCaFe			X	Acti	Cle
10	1	1.61	0.28	Amphibole		MgSiCaFe			X	Acti	Cle
10	2	1.15	0.15	Amphibole		MgSiCaFe			X	Acti	Cle
10	3	1.48	0.2	Non-Asbestos		AlSi			X		
10	4	1.61	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
10	5	2.53	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
10	6	2.91	0.3	Amphibole		MgSiCaFeAl	16689C	Image10	Diff8	Acti	Cle
10	7	1.04	0.15	Amphibole		MgSiCaFe			X	Acti	Cle
10	8	1.04	0.2	Amphibole		MgSiCaFe			X	Acti	Cle

7% Particulate

Analyst's Comments: N/A

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 8/6/2020 11:08:02 AM approve by Jacquelyn Mershon

Final Review: 8/11/20 7:29 AM approve by Ashleigh Sload

RJL: LLH901997-23	3158837.HTA4	Microscope tem2000fx1	Grid Openings	25
15 - RH #23	K & L Gates	Magnification 10 KX	Asbestos	0.0
Wt: 0.0 gm	Grid: 0.0088 mm ²	Acc. Voltage 120 KV	Nonasbestos	6.0
Dil: 1.	Filter Size: 47 mm	Operator: Jacquelyn Mershon	% Wt of largest asbestos	%
HQ45592		Cv = 0	structure	

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1				NSD							
2				NSD							
3				NSD							
4				NSD							
5				NSD							
6				NSD							
7				NSD							
8				NSD							
9				NSD							
10				NSD							
11				NSD							
12	1	10.17	1.35	Amphibole		MgSiCaFeAl	16690C	Image1	Diff1	Acti	Cle
13				NSD							
14				NSD							
15	1	6.53	0.36	Amphibole		MgSiCaFe		Image2	X	Acti	Cle
15	2	7.2	0.72	Amphibole		MgSiCaFe			X	Acti	Cle
16				NSD							
17				NSD							
18				NSD							
19				NSD							
20	1	6.3	0.45	Amphibole		MgSiCaFe			X	Acti	Cle
21				NSD							
22				NSD							
23	1	8.98	0.99	Amphibole		MgSiCaFe			X	Acti	Cle
24	1	7.47	0.32	Amphibole		MgSiCaFe		Image3	X	Acti	Cle
25				NSD							

7% Particulate

Analyst's Comments: N/A

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 8/6/2020 11:49:02 AM approve by Jacquelyn Mershon

Final Review: 8/11/20 7:29 AM approve by Ashleigh Sload

Final Laboratory Report

TEM Bulk Protocol

Attention: David Raphael
K & L Gates
17 North Second Street
Harrisburg, PA 17101
US

Report Date: 08/11/2020
Sample Receipt Date:
RJ Lee Group Job No.: LLH901997-23
Authorization/P.O. No.:
Samples Received: 1
Client Job No.:

Method: ISO 22262-2

TABLE 1 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos

Client Sample Number	RJLG Sample Number	<u>Total Structures</u>				-----Weight Percent----- <u>Total Structures</u> Analytical Sensitivity			
		Chry	Amph	Cleavage	Non Asbestos	Chry	Amph Asb	Amph Cleavage Fragment	Non Asbestos
15 - RH #23	3158837	0	0	71	14	< 3.0E-5 3.0E-5	< 2.4E-5 2.4E-5	2.6E0 2.4E-5	3.0E-2 2.3E-5

NOTES

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- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
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RJ Lee Group Job No: LLH901997-23
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/11/2020

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos 5 μm

Client Sample Number	RJLG Sample Number	-----Structures 5 μm-----				-----Weight Percent----- Structures 5 μm Analytical Sensitivity			
		Chry	Amph	Cleavage	Non-Asbestos	Amphibole		Cleavage Fragment	Non-Asbestos
15 - RH #23	3158837	0	0	10	0	<u>< 3.0E-4</u> 3.0E-4	<u>< 2.4E-4</u> 2.4E-4	<u>1.7E0</u> 2.4E-4	<u>< 2.3E-4</u> 2.3E-4

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- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
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RJ Lee Group, Inc.

RJ Lee Group Job No: LLH901997-23
Client Job No/Name:

Final Laboratory Report (cont'd)

Client: K & L Gates
Report Date: 08/11/2020

Client Sample Number	RJLG Sample Number	Material Used (gm)	Area Analyzed Total (mm ²)	Area Analyzed 5 μm (mm ²)	Effective Filter Area (mm ²)	Dilution Factor
15 - RH #23	3158837	0.00003	0.30880	0.30880	1220	1.0

Authorized Signature: 
Ashleigh Sload, Scientist

NOTES

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- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2×10^{-3} ng/μm³, density of chrysotile: 2.55×10^{-3} ng/μm³, density of non-asbestos: 3.00×10^{-3} ng/μm³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
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RJ Lee Group, Inc
LLH901997-23
3158837.HTA4

K & L Gates
15 - RH #23

06-Aug-20

Air volume:

Area of collection filter:

Volume flowrate:

Level of analysis (chrysotile):

NA

Level of analysis (amphibole):

AZQ

0

Magnification used for structure counting:

Aspect ratio for fibre definition:

3:1

Mean dimension of grid openings:

0.00882281

Initials of analyst:

JM

Number of grid openings examined:

35

Analytical sensitivity:

Number of primary asbestos structures:

70

Number of asbestos structures counted:

70

Number of asbestos structures >5 µm:

10

Number of fibres and bundles > 5 µm:

10

Number of PCM equivalent asbestos structures:

10

Number of PCM equivalent asbestos fibres:

10

TEM asbestos structure count					
Report Number:	LLH901997-23				
Sample Number:	3158837.HTA4		Sample Weight:	0.000033	
Sample Description:	15 - RH #23		Filter area (mm ²):	1220	
			Magnification:	10/20 KX	
			Grid opening dimension (mm ²)	0.00882281	
Preparation date:	08/5/20	By:	MK		
Analysis date:	08/6/20	By:	JM	Level of analysis (chrysotile)	NA
Computer entry date:	08/9/20	By:	MMK	Level of analysis (amphibole)	AZQ

Grid	Grid Opening	Structures		Identification	Structure type	Length (µm)	Width (µm)	Fibre Type	Comments
		primary	total						
1	11			NAM		0.92	0.1		
				NAM		0.92	0.15		
		1	1	AZQ	F	1.96	0.18	Actinolite	
		2	2	ADX	F	1.48	0.25	Actinolite	
		3	3	ADX	F	3.12	0.25	Actinolite	
		4	4	ADX	F	1.38	0.25	Actinolite	
		5	5	ADX	F	1.61	0.25	Actinolite	
		6	6	ADX	F	1.38	0.1	Actinolite	
		7	7	ADX	F	1.33	0.12	Actinolite	
		8	8	ADX	F	1.1	0.15	Actinolite	
	13	9	9	ADX	F	2.07	0.15	Actinolite	
		10	10	ADX	F	1.04	0.15	Actinolite	
		11	11	AZQ	F	4.03	0.28	Actinolite	
		12	12	ADX	F	4.68	0.3	Actinolite	
		13	13	ADX	F	2.07	0.15	Actinolite	
		14	14	ADX	F	2.65	0.46	Actinolite	
	15	15	15	ADX	F	1.38	0.25	Actinolite	
				NAM		1.53	0.15		
				NAM		1.04	0.15		
		16	16	ADX	F	1.84	0.25	Actinolite	
		17	17	ADX	F	1.15	0.15	Actinolite	
		18	18	ADX	F	1.84	0.25	Actinolite	
		19	19	ADX	F	1.04	0.2	Actinolite	
		20	20	ADX	F	2.39	0.28	Actinolite	
		21	21	AZQ	F	4.14	0.51	Actinolite	
	17			NAM		1.04	0.12		
		22	22	ADX	F	1.15	0.2	Actinolite	
		23	23	ADX	F	3.44	0.45	Actinolite	
		24	24	ADX	F	3.91	0.56	Actinolite	
		25	25	ADX	F	2.02	0.1	Actinolite	
		26	26	ADX	F	2.14	0.4	Actinolite	
		27	27	ADX	F	1.48	0.15	Actinolite	
		28	28	ADX	F	1.96	0.3	Actinolite	
		29	29	ADX	F	2.99	0.3	Actinolite	
		30	30	ADX	F	7.36	0.4	Actinolite	
				NAM		1.04	0.12		
		31	31	ADX	F	2.76	0.2	Actinolite	
	19			NAM		1.25	0.08		
		32	32	AZQ	F	2.53	0.46	Actinolite	
		33	33	ADX	F	1.53	0.15	Actinolite	
		34	34	ADX	F	5.73	1	Actinolite	
				NAM		1.73	0.1		

TEM asbestos structure count					
Report Number:	LLH901997-23				
Sample Number:	3158837.HTA4		Sample Weight:	0.000033	
Sample Description:	15 - RH #23		Filter area (mm ²):	1220	
			Magnification:	10/20 KX	
			Grid opening dimension (mm ²)	0.00882281	
Preparation date:	08/5/20	By:	MK		
Analysis date:	08/6/20	By:	JM	Level of analysis (chrysotile)	NA
Computer entry date:	08/9/20	By:	MMK	Level of analysis (amphibole)	AZQ

Grid	Grid Opening	Structures		Identification	Structure type	Length (µm)	Width (µm)	Fibre Type	Comments
		primary	total						
	A1			No Fibres					
	A3			No Fibres					
	A5			No Fibres					
	A7			No Fibres					
	C8			No Fibres					
	C6			No Fibres					
	C4			No Fibres					
	C2			No Fibres					
	E1			No Fibres					
	E3			No Fibres					
	E7			No Fibres					
	E9	35	35	AZQ	F	10.17	1.35	Actinolite	
2	B2			No Fibres					
	B4			No Fibres					
	B6	36	36	ADX	F	6.53	0.36	Actinolite	
		37	37	ADX	F	7.2	0.72	Actinolite	
	B8			No Fibres					
	B10			No Fibres					
	D10			No Fibres					
	D8			No Fibres					
	D6	38	38	ADX	F	6.3	0.45	Actinolite	
	D4			No Fibres					
	D2			No Fibres					
	F1	39	39	ADX	F	8.98	0.99	Actinolite	
	F7	40	40	ADX	F	7.47	0.32	Actinolite	
	F9			No Fibres					
	H2	41	41	ADX	F	2.29	0.35	Actinolite	
				NAM		1.58	0.2		
		42	42	ADX	F	2.66	0.2	Actinolite	
				NAM		1.58	0.2		
		43	43	ADX	F	2.76	0.45	Actinolite	
				NAM		1.73	0.15		
		44	44	ADX	F	1.61	0.28	Actinolite	
	G4	45	45	ADX	F	1.15	0.12	Actinolite	
				NAM		1.61	0.25		
		46	46	ADX	F	1.53	0.12	Actinolite	
		47	47	ADX	F	2.39	0.2	Actinolite	
		48	48	ADX	F	1.48	0.2	Actinolite	
	H6			AZQ		3.44	0.46	Actinolite	Not tabulated; touches top grid bar

TEM asbestos structure count					
Report Number:	LLH901997-23				
Sample Number:	3158837.HTA4		Sample Weight:	0.000033	
Sample Description:	15 - RH #23		Filter area (mm ²):	1220	
			Magnification:	10/20 KX	
			Grid opening dimension (mm ²)	0.00882281	
Preparation date:	08/5/20	By:	MK		
Analysis date:	08/6/20	By:	JM	Level of analysis (chrysotile)	NA
Computer entry date:	08/9/20	By:	MMK	Level of analysis (amphibole)	AZQ

Grid	Grid Opening	Structures		Identification	Structure type	Length (µm)	Width (µm)	Fibre Type	Comments
		primary	total						
		49	49	ADX	F	2.07	0.15	Actinolite	
				NAM		0.97	0.08		
		50	50	ADX	F	2.07	0.23	Actinolite	
		51	51	ADX	F	3.91	0.45	Actinolite	
		52	52	ADX	F	6.44	0.69	Actinolite	
		53	53	ADX	F	5.98	0.69	Actinolite	
		54	54	ADX	F	1.96	0.33	Actinolite	
		55	55	ADX	F	1.15	0.1	Actinolite	
	H8	56	56	ADX	F	2.29	0.25	Actinolite	
		57	57	ADX	F	2.91	0.56	Actinolite	
		58	58	AZQ	F	2.34	0.3	Actinolite	
		59	59	ADX	F	1.96	0.35	Actinolite	
		60	60	ADX	F	1.61	0.23	Actinolite	
		61	61	ADX	F	1.15	0.2	Actinolite	
		62	62	ADX	F	3.91	0.15	Actinolite	
		63	63	ADX	F	1.84	0.35	Actinolite	
	H10	64	64	ADX	F	1.61	0.28	Actinolite	
		65	65	ADX	F	1.15	0.15	Actinolite	
				NAM		1.48	0.2		
		66	66	ADX	F	1.61	0.2	Actinolite	
		67	67	ADX	F	2.53	0.2	Actinolite	
		68	68	AZQ	F	2.91	0.3	Actinolite	
		69	69	ADX	F	1.04	0.15	Actinolite	
		70	70	ADX	F	1.04	0.2	Actinolite	

Final Laboratory Report

TEM Bulk Protocol

Attention: David Raphael
K & L Gates
17 North Second Street
Harrisburg, PA 17101
US

Report Date: 08/07/2020
Sample Receipt Date:
RJ Lee Group Job No.: LLH901997-23
Authorization/P.O. No.:
Samples Received: 1
Client Job No.:

Method: EPA/R-93/600/116

TABLE 1 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos

Client Sample Number	RJLG Sample Number	Total Structures				-----Weight Percent----- Total Structures Analytical Sensitivity			
		Chry	Amph	Cleavage	Non Asbestos	Chry	Amph Asb	Amph Cleavage Fragment	Non Asbestos
16 - RH #24	3158838	0	0	0	1	< 2.5E-6 2.5E-6	< 3.1E-6 3.1E-6	< 2.0E-6 2.0E-6	3.8E-4 1.9E-6

NOTES

- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2×10^{-3} ng/ μ m³, density of chrysotile: 2.55×10^{-3} ng/ μ m³, density of non-asbestos: 3.00×10^{-3} ng/ μ m³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
- These results are submitted pursuant to RJ Lee Group'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 these results are used or interpreted.

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RJ Lee Group Job No: LLH901997-23
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/07/2020

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos 5 μm

Client Sample Number	RJLG Sample Number	-----Structures 5 μm-----				-----Weight Percent----- Structures 5 μm Analytical Sensitivity			
		Chry	Amph	Cleavage	Non-Asbestos	Chry	Asb	Cleavage Fragment	Non-Asbestos
16 - RH #24	3158838	0	0	0	0	<u>< 2.5E-5</u> 2.5E-5	<u>< 3.1E-5</u> 3.1E-5	<u>< 2.0E-5</u> 2.0E-5	<u>< 1.9E-5</u> 1.9E-5

NOTES

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- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2 * 10⁻³ ng/ μ m³, density of chrysotile: 2.55 * 10⁻³ ng/ μ m³, density of non-asbestos: 3.00 * 10⁻³ ng/ μ m³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
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RJ Lee Group, Inc.

RJ Lee Group Job No: LLH901997-23
Client Job No/Name:

Final Laboratory Report (cont'd)

Client: K & L Gates
Report Date: 08/07/2020

Client Sample Number	RJLG Sample Number	Material Used (gm)	Area Analyzed Total (mm ²)	Area Analyzed 5 μm (mm ²)	Effective Filter Area (mm ²)	Dilution Factor
16 - RH #24	3158838	0.0004	0.30731	0.30731	1220	1.0

Authorized Signature: 
Ashleigh Sload, Scientist

NOTES

- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2×10^{-3} ng/μm³, density of chrysotile: 2.55×10^{-3} ng/μm³, density of non-asbestos: 3.00×10^{-3} ng/μm³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
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RJL: LLH901997-23	3158838.HTA1	Microscope tem2000fx2	Grid Openings	10
16 - RH #24	K & L Gates	Magnification 21 KX	Asbestos	0.0
Wt: 0.0004 gm	Grid: 0.0088 mm ²	Acc. Voltage 120 KV	Asbestos >= 5µm	0.0
Dil: 1.0	Filter Size: 47 mm	Operator: Jon Swope	Nonasbestos	1.0
HQ45446		Cv = 0	Nonasbestos >= 5µm	0.0
			% Wt of largest asbestos structure	%

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1				NSD							
2				NSD							
3				NSD							
4	1	3.4	0.15	Non-Asbestos		AlSiCaNa	15813D	Image1	Diff1		
5				NSD							
6				NSD							
7				NSD							
8				NSD							
9				NSD							
10				NSD							

10% Particulate

Analyst's Comments: N/A

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 8/4/2020 2:16:00 PM approve by Jon Swope

Final Review: 8/7/20 12:28 PM approve by Ashleigh Sload

RJL: LLH901997-23	3158838.HTA1	Microscope tem2000fx2	Grid Openings	25
16 - RH #24	K & L Gates	Magnification 10 KX	Asbestos	0.0
Wt: 0.0004 gm	Grid: 0.0088 mm ²	Acc. Voltage 120 KV	Nonasbestos	0.0
Dil: 1.0	Filter Size: 47 mm	Operator: Jon Swope	% Wt of largest asbestos structure	%
HQ45446		Cv = 0		

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1				NSD							
2				NSD							
3				NSD							
4				NSD							
5				NSD							
6				NSD							
7				NSD							
8				NSD							
9				NSD							
10				NSD							
11				NSD							
12				NSD							
13				NSD							
14				NSD							
15				NSD							
16				NSD							
17				NSD							
18				NSD							
19				NSD							
20				NSD							
21				NSD							
22				NSD							
23				NSD							
24				NSD							
25				NSD							

10% Particulate

Analyst's Comments: N/A

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 8/4/2020 2:28:33 PM approve by Jon Swope

Final Review: 8/7/20 12:28 PM approve by Ashleigh Sload

Final Laboratory Report

TEM Bulk Protocol

Attention: David Raphael
K & L Gates
17 North Second Street
Harrisburg, PA 17101
US

Report Date: 08/07/2020
Sample Receipt Date:
RJ Lee Group Job No.: LLH901997-23
Authorization/P.O. No.:
Samples Received: 1
Client Job No.:

Method: ISO 22262-2

TABLE 1 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos

Client Sample Number	RJLG Sample Number	<u>Total Structures</u>				-----Weight Percent----- <u>Total Structures</u> Analytical Sensitivity			
		Chry	Amph	Cleavage	Non Asbestos	Chry	Amph Asb	Amph Cleavage Fragment	Non Asbestos
16 - RH #24	3158838	0	0	0	1	<u>< 2.5E-6</u> 2.5E-6	<u>< 2.0E-6</u> 2.0E-6	<u>< 2.0E-6</u> 2.0E-6	<u>3.8E-4</u> 1.9E-6

NOTES

1. "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
2. Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
3. If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
4. Density of amphibole: 3.2×10^{-3} ng/ μ m³, density of chrysotile: 2.55×10^{-3} ng/ μ m³, density of non-asbestos: 3.00×10^{-3} ng/ μ m³.
5. Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
6. Samples will be held for 90 days and then disposed of per Federal regulations.
7. These results are submitted pursuant to RJ Lee Group'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 these results are used or interpreted.

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RJ Lee Group Job No: LLH901997-23
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/07/2020

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos 5 μm

Client Sample Number	RJLG Sample Number	-----Structures 5 μm-----				-----Weight Percent----- Structures 5 μm Analytical Sensitivity Amphibole			
		Chry	Amph	Cleavage	Non-Asbestos	Chry	Asb	Cleavage Fragment	Non-Asbestos
16 - RH #24	3158838	0	0	0	0	<u>< 2.5E-5</u> 2.5E-5	<u>< 2.0E-5</u> 2.0E-5	<u>< 2.0E-5</u> 2.0E-5	<u>< 1.9E-5</u> 1.9E-5

NOTES

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- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2 * 10⁻³ ng/ μ m³, density of chrysotile: 2.55 * 10⁻³ ng/ μ m³, density of non-asbestos: 3.00 * 10⁻³ ng/ μ m³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
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RJ Lee Group, Inc.

RJ Lee Group Job No: LLH901997-23
Client Job No/Name:

Final Laboratory Report (cont'd)

Client: K & L Gates
Report Date: 08/07/2020

Client Sample Number	RJLG Sample Number	Material Used (gm)	Area Analyzed Total (mm ²)	Area Analyzed 5 μm (mm ²)	Effective Filter Area (mm ²)	Dilution Factor
16 - RH #24	3158838	0.0004	0.30731	0.30731	1220	1.0

Authorized Signature: 
Ashleigh Sload, Scientist

NOTES

- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2×10^{-3} ng/μm³, density of chrysotile: 2.55×10^{-3} ng/μm³, density of non-asbestos: 3.00×10^{-3} ng/μm³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
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RJ Lee Group, Inc
LLH901997-23
3158838.HTA1

K & L Gates
16 - RH #24

04-Aug-20

Air volume:
Area of collection filter:
Volume flowrate:
Level of analysis (chrysotile): NA
Level of analysis (amphibole): NA 0
Magnification used for structure counting:
Aspect ratio for fibre definition: 3:1
Mean dimension of grid openings: 0.00878032
Initials of analyst: JS
Number of grid openings examined: 35
Analytical sensitivity:
Number of primary asbestos structures: 0
Number of asbestos structures counted: 0
Number of asbestos structures >5 µm: 0
Number of fibres and bundles > 5 µm: 0
Number of PCM equivalent asbestos structures: 0
Number of PCM equivalent asbestos fibres: 0

TEM asbestos structure count					
Report Number:	LLH901997-23				
Sample Number:	3158838.HTA1		Sample Weight:	0.0004	
Sample Description:	16 - RH #24		Filter area (mm ²):	1220	
			Magnification:	10/20 KX	
			Grid opening dimension (mm ²)	0.00878032	
Preparation date:	06/9/20	By:	RAM		
Analysis date:	08/4/20	By:	JS	Level of analysis (chrysotile)	NA
Computer entry date:	08/9/20	By:	MMK	Level of analysis (amphibole)	NA

Grid	Grid Opening	Structues		Identification	Structure type	Length (µm)	Width (µm)	Fibre Type	Comments
		primary	total						
1	G1								
	G3								
	G5								
	G7			NAM		3.4	0.15		
	G9								
	B1								
	B3								
	B5								
	B7								
	B9								
	D9								
	D7								
	D5								
	D3								
	D1								
	F1								
	F3								
	F7								
2	D1								
	D3								
	D5								
	D7								
	D9								
	F9								
	F7								
	F4								
	F2								
	H1								
	H3								
	H5								
	I1								
	I3								
	I5								
	I7								
	I9								

Final Laboratory Report

TEM Bulk Protocol

Attention: David Raphael
K & L Gates
17 North Second Street
Harrisburg, PA 17101
US

Report Date: 08/07/2020
Sample Receipt Date:
RJ Lee Group Job No.: LLH901997-23
Authorization/P.O. No.:
Samples Received: 1
Client Job No.:

Method: EPA/R-93/600/116

TABLE 1 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos

Client Sample Number	RJLG Sample Number	<u>Total Structures</u>				-----Weight Percent----- <u>Total Structures</u> Analytical Sensitivity			
		Chry	Amph	Cleavage	Non Asbestos	Chry	Amph Asb	Amph Cleavage Fragment	Non Asbestos
17 - RH #25	3158839	0	0	0	0	<u>< 2.5E-6</u> 2.5E-6	<u>< 3.1E-6</u> 3.1E-6	<u>< 2.0E-6</u> 2.0E-6	<u>< 1.9E-6</u> 1.9E-6

NOTES

1. "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
2. Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
3. If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
4. Density of amphibole: 3.2×10^{-3} ng/ μ m³, density of chrysotile: 2.55×10^{-3} ng/ μ m³, density of non-asbestos: 3.00×10^{-3} ng/ μ m³.
5. Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
6. Samples will be held for 90 days and then disposed of per Federal regulations.
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RJ Lee Group Job No: LLH901997-23
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/07/2020

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos 5 μm

Client Sample Number	RJLG Sample Number	-----Structures 5 μm-----				-----Weight Percent----- Structures 5 μm Analytical Sensitivity Amphibole			
		Chry	Amph	Cleavage	Non-Asbestos	Chry	Asb	Cleavage Fragment	Non-Asbestos
17 - RH #25	3158839	0	0	0	0	<u>< 2.5E-5</u> 2.5E-5	<u>< 3.1E-5</u> 3.1E-5	<u>< 2.0E-5</u> 2.0E-5	<u>< 1.9E-5</u> 1.9E-5

NOTES

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- Density of amphibole: 3.2 * 10⁻³ ng/ μ m³, density of chrysotile: 2.55 * 10⁻³ ng/ μ m³, density of non-asbestos: 3.00 * 10⁻³ ng/ μ m³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
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RJ Lee Group, Inc.

RJ Lee Group Job No: LLH901997-23
Client Job No/Name:

Final Laboratory Report (cont'd)

Client: K & L Gates
Report Date: 08/07/2020

Client Sample Number	RJLG Sample Number	Material Used (gm)	Area Analyzed Total (mm ²)	Area Analyzed 5 μm (mm ²)	Effective Filter Area (mm ²)	Dilution Factor
17 - RH #25	3158839	0.0004	0.30731	0.30731	1220	1.0

Authorized Signature: 
Ashleigh Sload, Scientist

NOTES

- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
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- Density of amphibole: 3.2×10^{-3} ng/μm³, density of chrysotile: 2.55×10^{-3} ng/μm³, density of non-asbestos: 3.00×10^{-3} ng/μm³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
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RJL: LLH901997-23	3158839.HTA1	Microscope tem2000fx2	Grid Openings	10
17 - RH #25	K & L Gates	Magnification 21 KX	Asbestos	0.0
Wt: 0.0004 gm	Grid: 0.0088 mm ²	Acc. Voltage 120 KV	Asbestos >= 5µm	0.0
Dil: 1.0	Filter Size: 47 mm	Operator: Jon Swope	Nonasbestos	0.0
HQ45446		Cv = 0	Nonasbestos >= 5µm	0.0
			% Wt of largest asbestos structure	%

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1				NSD							
2				NSD							
3				NSD							
4				NSD							
5				NSD							
6				NSD							
7				NSD							
8				NSD							
9				NSD							
10				NSD							

8% Particulate

Analyst's Comments: N/A

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 8/4/2020 2:48:58 PM approve by Jon Swope

Final Review: 8/7/20 1:04 PM approve by Ashleigh Sload

RJL: LLH901997-23	3158839.HTA1	Microscope tem2000fx2	Grid Openings	25
17 - RH #25	K & L Gates	Magnification 10 KX	Asbestos	0.0
Wt: 0.0004 gm	Grid: 0.0088 mm ²	Acc. Voltage 120 KV	Nonasbestos	0.0
Dil: 1.0	Filter Size: 47 mm	Operator: Jon Swope	% Wt of largest asbestos structure	%
HQ45446		Cv = 0		

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1				NSD							
2				NSD							
3				NSD							
4				NSD							
5				NSD							
6				NSD							
7				NSD							
8				NSD							
9				NSD							
10				NSD							
11				NSD							
12				NSD							
13				NSD							
14				NSD							
15				NSD							
16				NSD							
17				NSD							
18				NSD							
19				NSD							
20				NSD							
21				NSD							
22				NSD							
23				NSD							
24				NSD							
25				NSD							

8% Particulate

Analyst's Comments: N/A

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 8/4/2020 2:57:25 PM approve by Jon Swope

Final Review: 8/7/20 1:04 PM approve by Ashleigh Sload

Final Laboratory Report

TEM Bulk Protocol

Attention: David Raphael
K & L Gates
17 North Second Street
Harrisburg, PA 17101
US

Report Date: 08/07/2020
Sample Receipt Date:
RJ Lee Group Job No.: LLH901997-23
Authorization/P.O. No.:
Samples Received: 1
Client Job No.:

Method: ISO 22262-2

TABLE 1 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos

Client Sample Number	RJLG Sample Number	<u>Total Structures</u>				-----Weight Percent----- <u>Total Structures</u> Analytical Sensitivity			
		Chry	Amph	Cleavage	Non Asbestos	Chry	Amph Asb	Amph Cleavage Fragment	Non Asbestos
17 - RH #25	3158839	0	0	0	0	< 2.5E-6 2.5E-6	< 2.0E-6 2.0E-6	< 2.0E-6 2.0E-6	< 1.9E-6 1.9E-6

NOTES

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3. If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
4. Density of amphibole: 3.2×10^{-3} ng/ μ m³, density of chrysotile: 2.55×10^{-3} ng/ μ m³, density of non-asbestos: 3.00×10^{-3} ng/ μ m³.
5. Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
6. Samples will be held for 90 days and then disposed of per Federal regulations.
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RJ Lee Group Job No: LLH901997-23
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/07/2020

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos 5 μm

Client Sample Number	RJLG Sample Number	-----Structures 5 μm-----				-----Weight Percent----- Structures 5 μm Analytical Sensitivity			
		Chry	Amph	Cleavage	Non-Asbestos	Amphibole			
						Chry	Asb	Cleavage Fragment	Non-Asbestos
17 - RH #25	3158839	0	0	0	0	<u>< 2.5E-5</u> 2.5E-5	<u>< 2.0E-5</u> 2.0E-5	<u>< 2.0E-5</u> 2.0E-5	<u>< 1.9E-5</u> 1.9E-5

NOTES

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- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
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RJ Lee Group, Inc.

RJ Lee Group Job No: LLH901997-23
Client Job No/Name:

Final Laboratory Report (cont'd)

Client: K & L Gates
Report Date: 08/07/2020

Client Sample Number	RJLG Sample Number	Material Used (gm)	Area Analyzed Total (mm ²)	Area Analyzed 5 μm (mm ²)	Effective Filter Area (mm ²)	Dilution Factor
17 - RH #25	3158839	0.0004	0.30731	0.30731	1220	1.0

Authorized Signature: 
Ashleigh Sload, Scientist

NOTES

- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
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- Density of amphibole: 3.2×10^{-3} ng/μm³, density of chrysotile: 2.55×10^{-3} ng/μm³, density of non-asbestos: 3.00×10^{-3} ng/μm³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
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RJ Lee Group, Inc
LLH901997-23
3158839.HTA1

K & L Gates
17 - RH #25

04-Aug-20

Air volume:

Area of collection filter:

Volume flowrate:

Level of analysis (chrysotile):

NA

Level of analysis (amphibole):

NA

0

Magnification used for structure counting:

Aspect ratio for fibre definition:

3:1

Mean dimension of grid openings:

0.00878032

Initials of analyst:

JS

Number of grid openings examined:

35

Analytical sensitivity:

Number of primary asbestos structures:

0

Number of asbestos structures counted:

0

Number of asbestos structures >5 µm:

0

Number of fibres and bundles > 5 µm:

0

Number of PCM equivalent asbestos structures:

0

Number of PCM equivalent asbestos fibres:

0

TEM asbestos structure count					
Report Number:	LLH901997-23				
Sample Number:	3158839.HTA1		Sample Weight:	0.0004	
Sample Description:	17 - RH #25		Filter area (mm2):	1220	
			Magnification:	10/20 KX	
			Grid opening dimension (mm2)	0.00878032	
Preparation date:	06/9/20	By:	RAM		
Analysis date:	08/4/20	By:	JS	Level of analysis (chrysotile)	NA
Computer entry date:	08/9/20	By:	MMK	Level of analysis (amphibole)	NA

Grid	Grid Opening	Structues		Identification	Structure type	Length (µm)	Width (µm)	Fibre Type	Comments
		primary	total						
1	H1								
	H3								
	H5								
	H7								
	H9								
	B1								
	B3								
	B5								
	B7								
	B9								
	D9								
	D7								
	D5								
	D3								
	D1								
	F1								
	F3								
	F7								
2	B1								
	B3								
	B5								
	B7								
	B9								
	D9								
	D7								
	D5								
	D3								
	D1								
	F1								
	F3								
	I1								
	I3								
	I5								
	I7								
	I9								

Final Laboratory Report

TEM Bulk Protocol

Attention: David Raphael
K & L Gates
17 North Second Street
Harrisburg, PA 17101
US

Report Date: 07/30/2020
Sample Receipt Date:
RJ Lee Group Job No.: LLH901997-24
Authorization/P.O. No.:
Samples Received: 1
Client Job No.:

Method: EPA/R-93/600/116

TABLE 1 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos

Client Sample Number	RJLG Sample Number	Total Structures				-----Weight Percent----- Total Structures Analytical Sensitivity			
		Chry	Amph	Cleavage	Non Asbestos	Chry	Amph Asb	Amph Cleavage Fragment	Non Asbestos
18 - RH #26	3158840	0	0	1	10	< 9.9E-6 9.9E-6	< 1.2E-5 1.2E-5	8.3E-3 7.9E-6	1.6E-1 7.5E-6

NOTES

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- Density of amphibole: 3.2×10^{-3} ng/ μ m³, density of chrysotile: 2.55×10^{-3} ng/ μ m³, density of non-asbestos: 3.00×10^{-3} ng/ μ m³.
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RJ Lee Group Job No: LLH901997-24
 Client Job No/Name:

Client: K & L Gates
 Report Date: 07/30/2020

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos 5 μm

Client Sample Number	RJLG Sample Number	-----Structures 5 μm-----				-----Weight Percent----- Structures 5 μm Analytical Sensitivity			
		Chry	Amph	Cleavage	Non-Asbestos	Chry	Asb	Cleavage Fragment	Non-Asbestos
18 - RH #26	3158840	0	0	0	9	<u>< 9.9E-5</u> 9.9E-5	<u>< 1.2E-4</u> 1.2E-4	<u>< 7.9E-5</u> 7.9E-5	<u>1.6E-1</u> 7.5E-5

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- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
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RJ Lee Group, Inc.

RJ Lee Group Job No: LLH901997-24
Client Job No/Name:

Final Laboratory Report (cont'd)

Client: K & L Gates
Report Date: 07/30/2020

Client Sample Number	RJLG Sample Number	Material Used (gm)	Area Analyzed Total (mm ²)	Area Analyzed 5 μm (mm ²)	Effective Filter Area (mm ²)	Dilution Factor
18 - RH #26	3158840	0.0001	0.30731	0.30731	1220	1.0

Authorized Signature: 
Ashleigh Sload, Scientist

NOTES

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- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
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- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
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RJL: LLH901997-24	3158840.HTA2	Microscope tem2000fx2	Grid Openings	10
18 - RH #26	K & L Gates	Magnification 21 KX	Asbestos	0.0
Wt: 0.0001 gm	Grid: 0.0088 mm ²	Acc. Voltage 120 KV	Asbestos >= 5µm	0.0
Dil: 1.	Filter Size: 47 mm	Operator: Jon Swope	Nonasbestos	3.0
HQ45459		Cv = 0	Nonasbestos >= 5µm	1.0
			% Wt of largest asbestos structure	%

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1	1	1.55	0.1	Non-Asbestos		AlSi	15721D	Image1 Image2	Diff1		
2	1	2.4	0.4	Amphibole		MgSiCaFeAl	15722D	Image3	Diff2	Acti	Cle
3				NSD							
4				NSD							
5	1	8.1	0.6	Non-Asbestos		MgAlSiCaFe	15723D	Image4 Image5 Image6 Image7	Diff3	CPX	
6				NSD							
7				NSD							
8				NSD							
9				NSD							
10				NSD							

18% Particulate

Analyst's Comments: approximately 200-300 non asb struc/field.

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 7/27/2020 3:02:15 PM approve by Jon Swope

Final Review: 7/30/20 1:53 PM approve by Ashleigh Sload

RJL: LLH901997-24	3158840.HTA2	Microscope tem2000fx2	Grid Openings	25
18 - RH #26	K & L Gates	Magnification 10 KX	Asbestos	0.0
Wt: 0.0001 gm	Grid: 0.0088 mm ²	Acc. Voltage 120 KV	Nonasbestos	8.0
Dil: 1.	Filter Size: 47 mm	Operator: Jon Swope	% Wt of largest asbestos structure	%
HQ45459		Cv = 0		

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1				NSD							
2	1	5.8	0.25	Non-Asbestos		AlSiFe	15724D	Image1	X		
3	1	8.9	0.4	Non-Asbestos		AlSi			X		
4	1	6.7	0.5	Non-Asbestos		AlSiFe			X		
5				NSD							
6				NSD							
7				NSD							
8				NSD							
9				NSD							
10				NSD							
11				NSD							
12	1	9.5	0.6	Non-Asbestos		AlSi			X		
13	1	6.3	0.4	Non-Asbestos		AlSi			X		
14				NSD							
15	1	5.4	0.3	Non-Asbestos		AlSi			X		
16				NSD							
17				NSD							
18				NSD							
19	1	7.1	0.5	Non-Asbestos		AlSiFe			X		
20				NSD							
21				NSD							
22				NSD							
23				NSD							
24	1	6.5	0.4	Non-Asbestos		AlSiFe			X		
25				NSD							

18% Particulate

Analyst's Comments: N/A

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 7/27/2020 3:29:35 PM approve by Jon Swope

Final Review: 7/30/20 1:54 PM approve by Ashleigh Sload

Final Laboratory Report

TEM Bulk Protocol

Attention: David Raphael
K & L Gates
17 North Second Street
Harrisburg, PA 17101
US

Report Date: 07/30/2020
Sample Receipt Date:
RJ Lee Group Job No.: LLH901997-24
Authorization/P.O. No.:
Samples Received: 8
Client Job No.:

Method: ISO 22262-2

TABLE 1 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos

Client Sample Number	RJLG Sample Number	Total Structures				-----Weight Percent----- Total Structures Analytical Sensitivity			
		Chry	Amph	Cleavage	Non Asbestos	Chry	Amph Asb	Amph Cleavage Fragment	Non Asbestos
18 - RH #26	3158840	0	0	1	10	< 9.9E-6 9.9E-6	< 7.9E-6 7.9E-6	8.3E-3 7.9E-6	1.6E-1 7.5E-6

NOTES

- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2×10^{-3} ng/ μ m³, density of chrysotile: 2.55×10^{-3} ng/ μ m³, density of non-asbestos: 3.00×10^{-3} ng/ μ m³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
- These results are submitted pursuant to RJ Lee Group'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 these results are used or interpreted.

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RJ Lee Group Job No: LLH901997-24
 Client Job No/Name:

Client: K & L Gates
 Report Date: 07/30/2020

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos 5 μm

Client Sample Number	RJLG Sample Number	-----Structures 5 μm-----				-----Weight Percent----- Structures 5 μm Analytical Sensitivity			
		Chry	Amph	Cleavage	Non-Asbestos	Chry	Asb	Cleavage Fragment	Non-Asbestos
18 - RH #26	3158840	0	0	0	9	<u>< 9.9E-5</u> 9.9E-5	<u>< 7.9E-5</u> 7.9E-5	<u>< 7.9E-5</u> 7.9E-5	<u>1.6E-1</u> 7.5E-5

NOTES

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- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2 * 10⁻³ ng/ μ m³, density of chrysotile: 2.55 * 10⁻³ ng/ μ m³, density of non-asbestos: 3.00 * 10⁻³ ng/ μ m³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
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RJ Lee Group, Inc.

RJ Lee Group Job No: LLH901997-24
Client Job No/Name:

Final Laboratory Report (cont'd)

Client: K & L Gates
Report Date: 07/30/2020

Client Sample Number	RJLG Sample Number	Material Used (gm)	Area Analyzed Total (mm ²)	Area Analyzed 5 μm (mm ²)	Effective Filter Area (mm ²)	Dilution Factor
18 - RH #26	3158840	0.0001	0.30731	0.30731	1220	1.0

Authorized Signature:



Ashleigh Sload, Scientist

NOTES

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- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2×10^{-3} ng/μm³, density of chrysotile: 2.55×10^{-3} ng/μm³, density of non-asbestos: 3.00×10^{-3} ng/μm³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
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RJ Lee Group, Inc
LLH901997-24
3158840.HTA2

K & L Gates
18 - RH #26

27-Jul-20

Air volume:
Area of collection filter:
Volume flowrate:
Level of analysis (chrysotile): NA
Level of analysis (amphibole): AZQ
Magnification used for structure counting:
Aspect ratio for fibre definition: 3:1
Mean dimension of grid openings: 0.00878032
Initials of analyst: JS
Number of grid openings examined: 35
Analytical sensitivity:
Number of primary asbestos structures: 1
Number of asbestos structures counted: 1
Number of asbestos structures >5 µm: 0
Number of fibres and bundles > 5 µm: 0
Number of PCM equivalent asbestos structures: 0
Number of PCM equivalent asbestos fibres: 0

TEM asbestos structure count					
Report Number:	LLH901997-24				
Sample Number:	3158840.HTA2		Sample Weight:	0.0001	
Sample Description:	18 - RH #26		Filter area (mm2):	1220	
			Magnification:	10/20 KX	
			Grid opening dimension (mm2)	0.00878032	
Preparation date:	06/12/20	By:	RAM		
Analysis date:	07/27/20	By:	JS	Level of analysis (chrysotile)	NA
Computer entry date:	08/4/20	By:	MMK	Level of analysis (amphibole)	AZQ

Grid	Grid Opening	Structures		Identification	Structure type	Length (µm)	Width (µm)	Fibre Type	Comments
		primary	total						
1	G1			NAM		1.55	0.1		
	G3	1	1	AZQ	F	2.4	0.4	Actinolite	Cluster of NAM and single amph; NAM were rejected.
	G5								
	G7								
	G9			NAM		8.1	0.6	CPX	
	B1								
	B3			NAM		5.8	0.25		
	B5			NAM		8.9	0.4		
	B7			NAM		6.7	0.5		
	B9								
	D1								
	D3								
	D5								
	D7								
	D9								
	F1								
	F3			NAM		9.5	0.6		
	F7			NAM		6.3	0.4		
2	G1								
	G3			NAM		5.4	0.3		
	G5								
	G7								
	G9								
	B1								
	B3								
	B5								
	B7								
	B9								
	D1								
	D3								
	D5								
	D7								
	D9			NAM			7.1	0.5	
	F1			NAM			6.5	0.4	
	F3								

Final Laboratory Report

TEM Bulk Protocol

Attention: David Raphael
K & L Gates
17 North Second Street
Harrisburg, PA 17101
US

Report Date: 08/13/2020
Sample Receipt Date:
RJ Lee Group Job No.: LLH901997-24
Authorization/P.O. No.:
Samples Received: 1
Client Job No.:

Method: EPA/R-93/600/116

TABLE 1 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos

Client Sample Number	RJLG Sample Number	Total Structures				-----Weight Percent----- Total Structures Analytical Sensitivity			
		Chry	Amph	Cleavage	Non Asbestos	Chry	Amph Asb	Amph Cleavage Fragment	Non Asbestos
19 - RH #27	3158841	0	0	9	1	< 3.3E-6 3.3E-6	< 4.2E-6 4.2E-6	2.6E-2 2.6E-6	1.8E-4 2.5E-6

NOTES

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- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2×10^{-3} ng/ μ m³, density of chrysotile: 2.55×10^{-3} ng/ μ m³, density of non-asbestos: 3.00×10^{-3} ng/ μ m³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
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RJ Lee Group Job No: LLH901997-24
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/13/2020

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos 5 μm

Client Sample Number	RJLG Sample Number	-----Structures 5 μm-----				-----Weight Percent----- Structures 5 μm Analytical Sensitivity Amphibole			
		Chry	Amph	Cleavage	Non-Asbestos	Chry	Asb	Cleavage Fragment	Non-Asbestos
19 - RH #27	3158841	0	0	0	0	<u>< 3.3E-5</u> 3.3E-5	<u>< 4.2E-5</u> 4.2E-5	<u>< 2.6E-5</u> 2.6E-5	<u>< 2.5E-5</u> 2.5E-5

NOTES

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- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2 * 10⁻³ ng/ μ m³, density of chrysotile: 2.55 * 10⁻³ ng/ μ m³, density of non-asbestos: 3.00 * 10⁻³ ng/ μ m³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
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RJ Lee Group, Inc.

RJ Lee Group Job No: LLH901997-24
Client Job No/Name:

Final Laboratory Report (cont'd)

Client: K & L Gates
Report Date: 08/13/2020

Client Sample Number	RJLG Sample Number	Material Used (gm)	Area Analyzed Total (mm ²)	Area Analyzed 5 μm (mm ²)	Effective Filter Area (mm ²)	Dilution Factor
19 - RH #27	3158841	0.0003	0.30731	0.30731	1220	1.0

Authorized Signature: 
Ashleigh Sload, Scientist

NOTES

- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2×10^{-3} ng/μm³, density of chrysotile: 2.55×10^{-3} ng/μm³, density of non-asbestos: 3.00×10^{-3} ng/μm³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
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RJL: LLH901997-24	3158841.HTA2	Microscope tem2000fx1	Grid Openings	10
19 - RH #27	K & L Gates	Magnification 20 KX	Asbestos	0.0
Wt: 0.0003 gm	Grid: 0.0088 mm ²	Acc. Voltage 120 KV	Asbestos >= 5µm	0.0
Dil: 1.	Filter Size: 47 mm	Operator: Jacquelyn Mershon	Nonasbestos	10.0
HQ45459		Cv = 0	Nonasbestos >= 5µm	0.0
			% Wt of largest asbestos structure	%

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1	1	1.14	0.15	Non-Asbestos		AlSi	16753C	Image2	X		
2	1	1.45	0.25	Amphibole		MgSiCaFeAl	16754C	Image3	Diff2	Acti	Cle
2	2	1.45	0.23	Amphibole		MgSiCaFe			X	Acti	Cle
3	1	1.8	0.35	Amphibole		MgSiCaFe			X	Acti	Cle
3	2	2.7	0.5	Amphibole		MgSiCaFe			X	Acti	Cle
3	3	1.8	0.45	Amphibole		MgSiCaFe			X	Acti	Cle
3	4	2.22	0.45	Amphibole		MgSiCaFe			X	Acti	Cle
4				NSD							
5				NSD							
6	1	1.24	0.23	Amphibole		MgSiCaFe			X	Acti	Cle
7	1	2.03	0.25	Amphibole		MgSiCaFe			X	Acti	Cle
8	1	3.44	0.68	Amphibole		MgSiCaFe			X	Acti	Cle
9				NSD							
10				NSD							

18% Particulate

Analyst's Comments: Grids 5 and 6

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 7/27/2020 1:34:43 PM approve by Jacquelyn Mershon

Final Review: 8/13/20 8:10 AM approve by Ashleigh Sload

RJL: LLH901997-24	3158841.HTA2	Microscope tem2000fx1	Grid Openings	25
19 - RH #27	K & L Gates	Magnification 10 KX	Asbestos	0.0
Wt: 0.0003 gm	Grid: 0.0088 mm ²	Acc. Voltage 120 KV	Nonasbestos	0.0
Dil: 1.	Filter Size: 47 mm	Operator: Jacquelyn Mershon	% Wt of largest asbestos	%
HQ45459		Cv = 0	structure	

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1				NSD							
2				NSD							
3				NSD							
4				NSD							
5				NSD							
6				NSD							
7				NSD							
8				NSD							
9				NSD							
10				NSD							
11				NSD							
12				NSD							
13				NSD							
14				NSD							
15				NSD							
16				NSD							
17				NSD							
18				NSD							
19				NSD							
20				NSD							
21				NSD							
22				NSD							
23				NSD							
24				NSD							
25				NSD							

18% Particulate

Analyst's Comments: Grids 5 and 6

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 7/27/2020 1:08:29 PM approve by Jacquelyn Mershon

Final Review: 8/13/20 8:10 AM approve by Ashleigh Sload

Final Laboratory Report

TEM Bulk Protocol

Attention: David Raphael
K & L Gates
17 North Second Street
Harrisburg, PA 17101
US

Report Date: 08/13/2020
Sample Receipt Date:
RJ Lee Group Job No.: LLH901997-24
Authorization/P.O. No.:
Samples Received: 8
Client Job No.:

Method: ISO 22262-2

TABLE 1 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos

Client Sample Number	RJLG Sample Number	<u>Total Structures</u>				-----Weight Percent----- <u>Total Structures</u> Analytical Sensitivity			
		Chry	Amph	Cleavage	Non Asbestos	Chry	Amph Asb	Amph Cleavage Fragment	Non Asbestos
19 - RH #27	3158841	0	0	9	1	<u>< 3.3E-6</u> 3.3E-6	<u>< 2.6E-6</u> 2.6E-6	<u>2.6E-2</u> 2.6E-6	<u>1.8E-4</u> 2.5E-6

NOTES

1. "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
2. Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
3. If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
4. Density of amphibole: 3.2×10^{-3} ng/ μ m³, density of chrysotile: 2.55×10^{-3} ng/ μ m³, density of non-asbestos: 3.00×10^{-3} ng/ μ m³.
5. Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
6. Samples will be held for 90 days and then disposed of per Federal regulations.
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RJ Lee Group Job No: LLH901997-24
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/13/2020

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos 5 μm

Client Sample Number	RJLG Sample Number	-----Structures 5 μm-----				-----Weight Percent----- Structures 5 μm Analytical Sensitivity			
		Chry	Amph	Cleavage	Non-Asbestos	Chry	Asb	Cleavage Fragment	Non-Asbestos
19 - RH #27	3158841	0	0	0	0	<u>< 3.3E-5</u> 3.3E-5	<u>< 2.6E-5</u> 2.6E-5	<u>< 2.6E-5</u> 2.6E-5	<u>< 2.5E-5</u> 2.5E-5

NOTES

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- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
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RJ Lee Group, Inc.

RJ Lee Group Job No: LLH901997-24
Client Job No/Name:

Final Laboratory Report (cont'd)

Client: K & L Gates
Report Date: 08/13/2020

Client Sample Number	RJLG Sample Number	Material Used (gm)	Area Analyzed Total (mm ²)	Area Analyzed 5 μm (mm ²)	Effective Filter Area (mm ²)	Dilution Factor
19 - RH #27	3158841	0.0003	0.30731	0.30731	1220	1.0

Authorized Signature:



Ashleigh Sload, Scientist

NOTES

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RJ Lee Group, Inc
LLH901997-24
3158841.HTA2

K & L Gates
19 - RH #27

27-Jul-20

Air volume:
Area of collection filter:
Volume flowrate:
Level of analysis (chrysotile): NA
Level of analysis (amphibole): AZQ
Magnification used for structure counting:
Aspect ratio for fibre definition: 3:1
Mean dimension of grid openings: 0.00878032
Initials of analyst: JM
Number of grid openings examined: 35
Analytical sensitivity:
Number of primary asbestos structures: 9
Number of asbestos structures counted: 9
Number of asbestos structures >5 µm: 0
Number of fibres and bundles > 5 µm: 0
Number of PCM equivalent asbestos structures: 0
Number of PCM equivalent asbestos fibres: 0

TEM asbestos structure count					
Report Number:	LLH901997-24				
Sample Number:	3158841.HTA2		Sample Weight:	0.0003	
Sample Description:	19 - RH #27		Filter area (mm2):	1220	
			Magnification:	10/20 KX	
			Grid opening dimension (mm2)	0.00878032	
Preparation date:	06/12/20	By:	RAM		
Analysis date:	07/27/20	By:	JM	Level of analysis (chrysotile)	NA
Computer entry date:	08/4/20	By:	MMK	Level of analysis (amphibole)	AZQ

Grid	Grid Opening	Structures		Identification	Structure type	Length (µm)	Width (µm)	Fibre Type	Comments
		primary	total						
5	H3			NAM		1.14	0.15		
	H5	1	1	AZQ	F	1.45	0.25		
		2	2	ADX	F	1.45	0.23		
	J5	3	3	ADX	F	1.8	0.35		
		4	4	ADX	F	2.7	0.5		
		5	5	ADX	F	1.8	0.45		
	6	6	ADX	F	2.22	0.45			
	J3								
	J1								
	A4								
	A6								
	A8								
	A10								
	C10								
	C8								
	C6								
	C4								
	F2								
	F7								
	F9								
	H10								
6	A1								
	A3								
	A5								
	A7								
	A9								
	C10								
	C8								
	C6								
	C4								
	C2								
	E1								
	E3								
	E7								
I1		7	7	ADX	F	1.24	0.23		
I3		8	8	ADX	F	2.03	0.25		
I5		9	9	ADX	F	3.44	0.68		
I7									
I9									

Final Laboratory Report

TEM Bulk Protocol

Attention: David Raphael
K & L Gates
17 North Second Street
Harrisburg, PA 17101
US

Report Date: 08/12/2020
Sample Receipt Date:
RJ Lee Group Job No.: LLH901997-24
Authorization/P.O. No.:
Samples Received: 1
Client Job No.:

Method: EPA/R-93/600/116

TABLE 1 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos

Client Sample Number	RJLG Sample Number	<u>Total Structures</u>				-----Weight Percent----- <u>Total Structures</u> Analytical Sensitivity			
		Chry	Amph	Cleavage	Non Asbestos	Chry	Amph Asb	Amph Cleavage Fragment	Non Asbestos
20 - RH #28	3158842	0	0	0	18	< 1.2E-6 1.2E-6	< 1.6E-6 1.6E-6	< 9.9E-7 9.9E-7	2.8E-2 9.3E-7

NOTES

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- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
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RJ Lee Group Job No: LLH901997-24
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/12/2020

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos 5 µm

Client Sample Number	RJLG Sample Number	-----Structures 5 µm-----				-----Weight Percent----- Structures 5 µm Analytical Sensitivity			
		Chry	Amph	Cleavage	Non-Asbestos	Amphibole			
						Chry	Asb	Cleavage Fragment	Non-Asbestos
20 - RH #28	3158842	0	0	0	2	<u>< 1.2E-5</u> 1.2E-5	<u>< 1.6E-5</u> 1.6E-5	<u>< 9.9E-6</u> 9.9E-6	<u>4.8E-3</u> 9.3E-6

NOTES

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RJ Lee Group, Inc.

RJ Lee Group Job No: LLH901997-24
Client Job No/Name:

Final Laboratory Report (cont'd)

Client: K & L Gates
Report Date: 08/12/2020

Client Sample Number	RJLG Sample Number	Material Used (gm)	Area Analyzed Total (mm ²)	Area Analyzed 5 μm (mm ²)	Effective Filter Area (mm ²)	Dilution Factor
20 - RH #28	3158842	0.0008	0.30731	0.30731	1220	1.0

Authorized Signature: 
Ashleigh Sload, Scientist

NOTES

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- Density of amphibole: 3.2×10^{-3} ng/μm³, density of chrysotile: 2.55×10^{-3} ng/μm³, density of non-asbestos: 3.00×10^{-3} ng/μm³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
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RJ Lee Group, Inc.
TEM Count Sheet

RJL: LLH901997-24	3158842.HTA1	Microscope tem2000fx1	Grid Openings	10
20 - RH #28	K & L Gates	Magnification 21 KX	Asbestos	0.0
Wt: 0.0008 gm	Grid: 0.0088 mm ²	Acc. Voltage 120 KV	Asbestos >= 5µm	0.0
Dil: 1.0	Filter Size: 47 mm	Operator: Jacquelyn Mershon	Nonasbestos	16.0
HQ45459		Cv = 0	Nonasbestos >= 5µm	0.0
			% Wt of largest asbestos structure	%

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1	1	1.61	0.18	Non-Asbestos		AlSiFe	16549C	Image1	X		
1	2	1.38	0.25	Non-Asbestos		AlSiFe			X		
2	1	4.14	0.74	Non-Asbestos		Si	16550C	Image2			
2	2	2.6	0.6	Non-Asbestos		AlSiFe			X		
3	1	2.29	0.25	Non-Asbestos		MgAlSiCaFe	16551C	Image3	Diff2		CPX
3	2	2.8	0.9	Non-Asbestos		AlSiFe			X		
4	1	0.84	0.2	Non-Asbestos		AlSiFe			X		
5	1	4.83	0.35	Non-Asbestos		AlSiCa	16552C	Image4	X		
5	2	1.15	0.15	Non-Asbestos		AlSiFe			X		
6	1	0.6	0.15	Non-Asbestos		AlSiFe			X		
7	1	2.07	0.2	Non-Asbestos		AlSiFe			X		
7	2	1.5	0.2	Non-Asbestos		AlSiFe			X		
7	3	3.22	0.46	Non-Asbestos		AlSiCa			X		
7	4	4.58	0.35	Non-Asbestos		AlSiCa			X		
7	5	2.8	0.6	Non-Asbestos		MgSiCaFe			X		CPX
8				NSD							
9				NSD							
10	1	1.84	0.3	Non-Asbestos		AlSiFe			X		

18% Particulate

Analyst's Comments: N/A

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 7/28/2020 9:03:33 AM approve by Jacquelyn Mershon

Final Review: 8/12/20 12:26 PM approve by Bryan Bandli

RJL: LLH901997-24	3158842.HTA1	Microscope tem2000fx1	Grid Openings	25
20 - RH #28	K & L Gates	Magnification 10 KX	Asbestos	0.0
Wt: 0.0008 gm	Grid: 0.0088 mm ²	Acc. Voltage 120 KV	Nonasbestos	2.0
Dil: 1.0	Filter Size: 47 mm	Operator: Jacquelyn Mershon	% Wt of largest asbestos	%
HQ45459		Cv = 0	structure	

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1				NSD							
2				NSD							
3				NSD							
4				NSD							
5				NSD							
6				NSD							
7				NSD							
8				NSD							
9				NSD							
10				NSD							
11				NSD							
12				NSD							
13				NSD							
14				NSD							
15	1	5.85	0.45	Non-Asbestos		NaAlSiCaFe	66553C	Image1	X		
16				NSD							
17				NSD							
18				NSD							
19				NSD							
20				NSD							
21				NSD							
22				NSD							
23	1	11.7	0.54	Non-Asbestos		NaAlSiCaFe			X		
24				NSD							
25				NSD							

18% Particulate

Analyst's Comments: N/A

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 7/28/2020 8:12:06 AM approve by Jacquelyn Mershon

Final Review: 8/12/20 12:26 PM approve by Bryan Bandli

Final Laboratory Report

TEM Bulk Protocol

Attention: David Raphael
K & L Gates
17 North Second Street
Harrisburg, PA 17101
US

Report Date: 08/12/2020
Sample Receipt Date:
RJ Lee Group Job No.: LLH901997-24
Authorization/P.O. No.:
Samples Received: 1
Client Job No.:

Method: ISO 22262-2

TABLE 1 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos

Client Sample Number	RJLG Sample Number	Total Structures				-----Weight Percent----- Total Structures Analytical Sensitivity			
		Chry	Amph	Cleavage	Non Asbestos	Chry	Amph Asb	Amph Cleavage Fragment	Non Asbestos
20 - RH #28	3158842	0	0	0	18	< 1.2E-6 1.2E-6	< 9.9E-7 9.9E-7	< 9.9E-7 9.9E-7	2.8E-2 9.3E-7

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RJ Lee Group Job No: LLH901997-24
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/12/2020

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos 5 μm

Client Sample Number	RJLG Sample Number	-----Structures 5 μm-----				-----Weight Percent----- Structures 5 μm Analytical Sensitivity			
		Chry	Amph	Cleavage	Non-Asbestos	Chry	Asb	Cleavage Fragment	Non-Asbestos
20 - RH #28	3158842	0	0	0	2	<u>< 1.2E-5</u> 1.2E-5	<u>< 9.9E-6</u> 9.9E-6	<u>< 9.9E-6</u> 9.9E-6	<u>4.8E-3</u> 9.3E-6

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RJ Lee Group, Inc.

RJ Lee Group Job No: LLH901997-24
Client Job No/Name:

Final Laboratory Report (cont'd)

Client: K & L Gates
Report Date: 08/12/2020

Client Sample Number	RJLG Sample Number	Material Used (gm)	Area Analyzed Total (mm ²)	Area Analyzed 5 μm (mm ²)	Effective Filter Area (mm ²)	Dilution Factor
20 - RH #28	3158842	0.0008	0.30731	0.30731	1220	1.0

Authorized Signature: 
Ashleigh Sload, Scientist

NOTES

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RJ Lee Group, Inc
LLH901997-24
3158842.HTA1

K & L Gates
20 - RH #28

28-Jul-20

Air volume:
Area of collection filter:
Volume flowrate:
Level of analysis (chrysotile): NA
Level of analysis (amphibole): NA
Magnification used for structure counting:
Aspect ratio for fibre definition: 3:1
Mean dimension of grid openings: 0.00878032
Initials of analyst: JM
Number of grid openings examined: 35
Analytical sensitivity:
Number of primary asbestos structures: 0
Number of asbestos structures counted: 0
Number of asbestos structures >5 µm: 0
Number of fibres and bundles > 5 µm: 0
Number of PCM equivalent asbestos structures: 0
Number of PCM equivalent asbestos fibres: 0

TEM asbestos structure count					
Report Number:	LLH901997-24				
Sample Number:	3158842.HTA2		Sample Weight:	0.0008	
Sample Description:	20 - RH #28		Filter area (mm ²):	1220	
			Magnification:	10/20 KX	
			Grid opening dimension (mm ²)	0.00878032	
Preparation date:	06/12/20	By:	RAM		
Analysis date:	07/28/20	By:	JM	Level of analysis (chrysotile)	NA
Computer entry date:	08/4/20	By:	MMK	Level of analysis (amphibole)	NA

Grid	Grid Opening	Structures		Identification	Structure type	Length (µm)	Width (µm)	Fibre Type	Comments
		primary	total						
1	H1			NAM		1.61	0.18		
				NAM		1.38	0.25		
	H3			NAM		4.14	0.74		
				NAM		2.6	0.6		
	H5			NAM		2.29	0.25	CPX	
				NAM		2.8	0.9		
	H7			NAM		0.84	0.2		
	H9			NAM		4.83	0.35		
				NAM		1.15	0.15		
	B1			No Fibres					
	B3			No Fibres					
	B5			No Fibres					
	B7			No Fibres					
	B9			No Fibres					
	D2			No Fibres					
	D4			No Fibres					
	D6			No Fibres					
	D8			No Fibres					
	D10			No Fibres					
	F1			No Fibres					
	F3			No Fibres					
	F9			No Fibres					
2	H6			NAM		0.6	0.15		
	G8			NAM		2.07	0.2		
				NAM		1.5	0.2		
				NAM		3.22	0.46		
				NAM		4.58	0.35		
				NAM		2.8	0.6	CPX	
		I10			No Fibres				
		I6			No Fibres				
		J10			NAM		1.84	0.3	
		A2			No Fibres				
		A4			No Fibres				
		A6			No Fibres				
		A8			No Fibres				
		A10			No Fibres				
		C2			No Fibres				
		C4			No Fibres				
		C7			No Fibres				
		C10			No Fibres				
		E1			No Fibres				
	E3			No Fibres					
	E7			No Fibres					

Final Laboratory Report

TEM Bulk Protocol

Attention: David Raphael
K & L Gates
17 North Second Street
Harrisburg, PA 17101
US

Report Date: 08/12/2020
Sample Receipt Date:
RJ Lee Group Job No.: LLH901997-24
Authorization/P.O. No.:
Samples Received: 1
Client Job No.:

Method: EPA/R-93/600/116

TABLE 1 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos

Client Sample Number	RJLG Sample Number	Total Structures				-----Weight Percent----- Total Structures Analytical Sensitivity			
		Chry	Amph	Cleavage	Non Asbestos	Chry	Amph Asb	Amph Cleavage Fragment	Non Asbestos
21 - RH #29	3158843	0	5	35	0	< 5.0E-6 5.0E-6	6.5E-1 6.2E-6	1.9E0 4.0E-6	< 3.7E-6 3.7E-6

NOTES

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- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2×10^{-3} ng/ μ m³, density of chrysotile: 2.55×10^{-3} ng/ μ m³, density of non-asbestos: 3.00×10^{-3} ng/ μ m³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
- These results are submitted pursuant to RJ Lee Group'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 these results are used or interpreted.

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RJ Lee Group Job No: LLH901997-24
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/12/2020

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos 5 μm

Client Sample Number	RJLG Sample Number	-----Structures 5 μm-----				-----Weight Percent----- Structures 5 μm Analytical Sensitivity			
		Chry	Amph	Cleavage	Non-Asbestos	Chry	Asb	Cleavage Fragment	Non-Asbestos
21 - RH #29	3158843	0	4	16	0	<u>< 5.0E-5</u> 5.0E-5	<u>6.5E-1</u> 6.2E-5	<u>1.8E0</u> 4.0E-5	<u>< 3.7E-5</u> 3.7E-5

NOTES

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- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2 * 10⁻³ ng/ μ m³, density of chrysotile: 2.55 * 10⁻³ ng/ μ m³, density of non-asbestos: 3.00 * 10⁻³ ng/ μ m³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
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RJ Lee Group, Inc.

RJ Lee Group Job No: LLH901997-24
Client Job No/Name:

Final Laboratory Report (cont'd)

Client: K & L Gates
Report Date: 08/12/2020

Client Sample Number	RJLG Sample Number	Material Used (gm)	Area Analyzed Total (mm ²)	Area Analyzed 5 μm (mm ²)	Effective Filter Area (mm ²)	Dilution Factor
21 - RH #29	3158843	0.0002	0.30731	0.30731	1220	1.0

Authorized Signature: 
Ashleigh Sload, Scientist

NOTES

- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2×10^{-3} ng/μm³, density of chrysotile: 2.55×10^{-3} ng/μm³, density of non-asbestos: 3.00×10^{-3} ng/μm³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
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RJL: LLH901997-24	3158843.HTA2	Microscope tem2000fx1	Grid Openings	10
21 - RH #29	K & L Gates	Magnification 21 KX	Asbestos	5.0
Wt: 0.0002 gm	Grid: 0.0088 mm ²	Acc. Voltage 120 KV	Asbestos >= 5µm	4.0
Dil: 1.	Filter Size: 47 mm	Operator: Jacquelyn Mershon	Nonasbestos	21.0
HQ45459		Cv = 0.45	Nonasbestos >= 5µm	2.0
			% Wt of largest asbestos structure	%

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1	1	5.98	0.2	Amphibole	F	MgSiCaFeAl	6554C	Image1	Diff1	Acti	Asb
1	2	1.86	0.35	Amphibole		MgSiCaFe			X	Acti	Cle
2	1	2.65	0.25	Amphibole		MgSiCaFe			X	Acti	Cle
2	2	4.37	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
2	3	3.32	0.25	Amphibole		MgSiCaFe			X	Acti	Cle
2	4	1.58	0.45	Amphibole		MgSiCaFe			X	Acti	Cle
3	1	2.49	0.46	Amphibole		MgSiCaFe			X	Acti	Cle
3	2	4.37	0.25	Amphibole	F	MgSiCaFe		Image2	X	Acti	Asb
3	3	14.89	1.38	Amphibole	B	MgSiCaFe		Image3	X	Acti	Asb
3	4	3.12	0.27	Amphibole		MgSiCaFe			X	Acti	Cle
3	5	1.84	0.25	Amphibole		MgSiCaFe			X	Acti	Cle
4	1	2.76	0.25	Amphibole		MgSiCaFe			X	Acti	Cle
5	1	3.68	0.27	Amphibole		MgSiCaFeAl	6555C	Image5	Diff2	Acti	Cle
6	1	3.12	0.46	Amphibole		MgSiCaFe			X	Acti	Cle
6	2	1.73	0.32	Amphibole		MgSiCaFe			X	Acti	Cle
6	3	5.73	0.92	Amphibole	B	MgSiCaFe		Image6	X	Acti	Asb
7	1	1.38	0.25	Amphibole		MgSiCaFe			X	Acti	Cle
7	2	8.51	1.38	Amphibole		MgSiCaFe			X	Acti	Cle
7	3	2.53	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
8	1	1.27	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
9	1	1.84	0.25	Amphibole		MgSiCaFe			X	Acti	Cle
9	2	1.96	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
9	3	2.53	0.23	Amphibole		MgSiCaFe			X	Acti	Cle
10	1	2.53	0.25	Amphibole		MgSiCaFe			X	Acti	Cle
10	2	20.61	0.46	Amphibole	F	MgSiCaFeAl	6556C	Image7	Diff4	Acti	Asb
10	3	5.06	0.82	Amphibole		MgSiCaFe			X	Acti	Cle

7% Particulate

Analyst's Comments: N/A

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 7/28/2020 10:57:18 AM approve by Jacquelyn Mershon

Final Review: 8/12/20 3:48 PM approve by Ashleigh Sload

RJL: LLH901997-24	3158843.HTA2	Microscope tem2000fx1	Grid Openings	25
21 - RH #29	K & L Gates	Magnification 10 KX	Asbestos	0.0
Wt: 0.0002 gm	Grid: 0.0088 mm ²	Acc. Voltage 120 KV	Nonasbestos	14.0
Dil: 1.	Filter Size: 47 mm	Operator: Jacquelyn Mershon	% Wt of largest asbestos	%
HQ45459		Cv = 0	structure	

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1				NSD							
2				NSD							
3	1	6.12	1.08	Amphibole		MgSiCaFeAl	6557C	Image1	Diff2	Acti	Cle
4	1	18.86	2.24	Amphibole		MgSiCaFe			X	Acti	Cle
5	1	10.53	2.79	Amphibole		MgSiCaFe			X	Acti	Cle
6				NSD							
7				NSD							
8				NSD							
9	1	8.1	1.8	Amphibole		MgSiCaFe			X	Acti	Cle
10				NSD							
11	1	5.4	0.9	Amphibole		MgSiCaFe			X	Acti	Cle
12				NSD							
13	1	5.18	0.63	Amphibole		MgSiCaFe			X	Acti	Cle
13	2	8.1	1.17	Amphibole		MgSiCaFe			X	Acti	Cle
14				NSD							
15				NSD							
16	1	11.7	2.25	Amphibole		MgSiCaFe			X	Acti	Cle
17				NSD							
18	1	10.8	1.35	Amphibole		MgSiCaFe			X	Acti	Cle
19	1	8.98	1.08	Amphibole		MgSiCaFe			X	Acti	Cle
20	1	8.1	1.35	Amphibole		MgSiCaFe			X	Acti	Cle
21				NSD							
22				NSD							
23				NSD							
24	1	8.1	0.99	Amphibole		MgSiCaFeAl	6558C	Image2	Diff3	Acti	Cle
24	2	6.54	0.9	Amphibole		MgSiCaFe			X	Acti	Cle
25	1	9.16	1.62	Amphibole		MgSiCaFe			X	Acti	Cle

7% Particulate

Analyst's Comments: N/A

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 7/28/2020 12:00:32 PM approve by Jacquelyn Mershon

Final Review: 8/12/20 3:48 PM approve by Ashleigh Sload

Final Laboratory Report

TEM Bulk Protocol

Attention: David Raphael
K & L Gates
17 North Second Street
Harrisburg, PA 17101
US

Report Date: 08/12/2020
Sample Receipt Date:
RJ Lee Group Job No.: LLH901997-24
Authorization/P.O. No.:
Samples Received: 1
Client Job No.:

Method: ISO 22262-2

TABLE 1 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos

Client Sample Number	RJLG Sample Number	Total Structures				-----Weight Percent----- Total Structures Analytical Sensitivity			
		Chry	Amph	Cleavage	Non Asbestos	Chry	Amph Asb	Amph Cleavage Fragment	Non Asbestos
21 - RH #29	3158843	0	5	35	0	< 5.0E-6 5.0E-6	4.1E-1 4.0E-6	1.9E0 4.0E-6	< 3.7E-6 3.7E-6

NOTES

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- Density of amphibole: 3.2×10^{-3} ng/ μ m³, density of chrysotile: 2.55×10^{-3} ng/ μ m³, density of non-asbestos: 3.00×10^{-3} ng/ μ m³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
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RJ Lee Group Job No: LLH901997-24
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/12/2020

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos 5 μm

Client Sample Number	RJLG Sample Number	-----Structures 5 μm-----				-----Weight Percent----- Structures 5 μm Analytical Sensitivity Amphibole			
		Chry	Amph	Cleavage	Non-Asbestos	Chry	Asb	Cleavage Fragment	Non-Asbestos
21 - RH #29	3158843	0	4	16	0	<u>< 5.0E-5</u> 5.0E-5	<u>4.1E-1</u> 4.0E-5	<u>1.8E0</u> 4.0E-5	<u>< 3.7E-5</u> 3.7E-5

NOTES

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- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
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RJ Lee Group, Inc.

RJ Lee Group Job No: LLH901997-24
Client Job No/Name:

Final Laboratory Report (cont'd)

Client: K & L Gates
Report Date: 08/12/2020

Client Sample Number	RJLG Sample Number	Material Used (gm)	Area Analyzed Total (mm ²)	Area Analyzed 5 μm (mm ²)	Effective Filter Area (mm ²)	Dilution Factor
21 - RH #29	3158843	0.0002	0.30731	0.30731	1220	1.0

Authorized Signature: 
Ashleigh Sload, Scientist

NOTES

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- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2×10^{-3} ng/μm³, density of chrysotile: 2.55×10^{-3} ng/μm³, density of non-asbestos: 3.00×10^{-3} ng/μm³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
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RJ Lee Group, Inc
LLH901997-24
3158843.HTA2

K & L Gates
21 - RH #29

27-Jul-20

Air volume:
Area of collection filter:
Volume flowrate:
Level of analysis (chrysotile): NA
Level of analysis (amphibole): AZQ
Magnification used for structure counting:
Aspect ratio for fibre definition: 3:1
Mean dimension of grid openings: 0.00878032
Initials of analyst: JM
Number of grid openings examined: 35
Analytical sensitivity:
Number of primary asbestos structures: 40
Number of asbestos structures counted: 40
Number of asbestos structures >5 µm: 20
Number of fibres and bundles > 5 µm: 19
Number of PCM equivalent asbestos structures: 19
Number of PCM equivalent asbestos fibres: 18

TEM asbestos structure count					
Report Number:	LLH901997-24				
Sample Number:	3158843.HTA2		Sample Weight:	0.0002	
Sample Description:	21 - RH #29		Filter area (mm2):	1220	
			Magnification:	10/20 KX	
			Grid opening dimension (mm2)	0.00878032	
Preparation date:	06/12/20	By:	RAM		
Analysis date:	07/28/20	By:	JM	Level of analysis (chrysotile)	NA
Computer entry date:	08/4/20	By:	MMK	Level of analysis (amphibole)	AZQ

Grid	Grid Opening	Structures		Identification	Structure type	Length (µm)	Width (µm)	Fibre Type	Comments
		primary	total						
1	J1	1	1	AZQ	F	5.98	0.2	Actinolite	
		2	2	ADX	F	1.86	0.35	Actinolite	
		3	3	ADX	F	2.65	0.25	Actinolite	
	J3	4	4	ADX	F	4.37	0.3	Actinolite	
		5	5	ADX	F	3.32	0.25	Actinolite	
		6	6	ADX	F	1.58	0.45	Actinolite	
		7	7	ADX	F	2.49	0.46	Actinolite	
	J5	8	8	ADX	F	4.37	0.25	Actinolite	
		9	9	ADX	F	14.89	1.38	Actinolite	
		10	10	ADX	F	3.12	0.27	Actinolite	
		11	11	ADX	F	1.84	0.25	Actinolite	
	J7	12	12	ADX	F	2.76	0.25	Actinolite	
	J9	13	13	AZQ	F	3.68	0.27	Actinolite	
A2									
A4									
A6	14	14	AZQ	F	6.12	1.08	Actinolite		
A8	15	15	ADX	F	18.86	2.24	Actinolite		
A10	16	16	ADX	F	10.53	2.79	Actinolite		
C10									
C7									
F1									
F3	17	17	ADX	F	8.1	1.8	Actinolite		
F7									
H10	18	18	ADX	F	5.4	0.9	Actinolite		
H8									
H6	19	19	ADX	F	5.18	0.63	Actinolite		
2		20	20	ADX	F	8.1	1.17	Actinolite	
	I2	21	21	ADX	F	3.12	0.46	Actinolite	
		22	22	ADX	F	1.73	0.32	Actinolite	
		23	23	ADX	MC02	5.73	0.92	Actinolite	
	I4	24	24	ADX	F	1.38	0.25	Actinolite	
		25	25	ADX	F	8.51	1.38	Actinolite	
		26	26	ADX	F	2.53	0.2	Actinolite	
	I6	27	27	ADX	F	1.27	0.2	Actinolite	
	I8	28	28	ADX	F	1.84	0.25	Actinolite	
		29	29	ADX	F	1.96	0.3	Actinolite	
	30	30	ADX	F	2.53	0.23	Actinolite		
I10	31	31	ADX	F	2.53	0.25	Actinolite		
	32	32	AZQ	F	20.61	0.46	Actinolite		
	33	33	ADX	F	5.06	0.82	Actinolite		
A1									
A3									
A5	34	34	ADX	F	11.7	2.25	Actinolite		

TEM asbestos structure count					
Report Number:	LLH901997-24				
Sample Number:	3158843.HTA2		Sample Weight:	0.0002	
Sample Description:	21 - RH #29		Filter area (mm ²):	1220	
			Magnification:	10/20 KX	
			Grid opening dimension (mm ²)	0.00878032	
Preparation date:	06/12/20	By:	RAM		
Analysis date:	07/28/20	By:	JM	Level of analysis (chrysotile)	NA
Computer entry date:	08/4/20	By:	MMK	Level of analysis (amphibole)	AZQ

Grid	Grid Opening	Structures		Identification	Structure type	Length (µm)	Width (µm)	Fibre Type	Comments
		primary	total						
	A7								
	A9	35	35	ADX	F	10.8	1.34	Actinolite	
	C10	36	36	ADX	F	8.98	1.35	Actinolite	
	C8	37	37	ADX	F	8.1	1.35	Actinolite	
	C4								
	E1								
	E3								
	E8	38	38	AZQ	F	8.1	0.99	Actinolite	
		39	39	ADX	F	6.54	0.9	Actinolite	
	E10	40	40	ADX	F	9.16	1.62	Actinolite	

Final Laboratory Report

TEM Bulk Protocol

Attention: David Raphael
K & L Gates
17 North Second Street
Harrisburg, PA 17101
US

Report Date: 08/13/2020
Sample Receipt Date:
RJ Lee Group Job No.: LLH901997-24
Authorization/P.O. No.:
Samples Received: 1
Client Job No.:

Method: EPA/R-93/600/116

TABLE 1 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos

Client Sample Number	RJLG Sample Number	<u>Total Structures</u>				-----Weight Percent----- <u>Total Structures</u> Analytical Sensitivity			
		Chry	Amph	Cleavage	Non Asbestos	Chry	Amph Asb	Amph Cleavage Fragment	Non Asbestos
22 - RH #30	3158844	0	0	27	0	< 5.0E-6 5.0E-6	< 6.2E-6 6.2E-6	8.3E-2 4.0E-6	< 3.7E-6 3.7E-6

NOTES

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3. If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
4. Density of amphibole: 3.2×10^{-3} ng/ μ m³, density of chrysotile: 2.55×10^{-3} ng/ μ m³, density of non-asbestos: 3.00×10^{-3} ng/ μ m³.
5. Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
6. Samples will be held for 90 days and then disposed of per Federal regulations.
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RJ Lee Group Job No: LLH901997-24
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/13/2020

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos 5 μm

Client Sample Number	RJLG Sample Number	-----Structures 5 μm-----				-----Weight Percent----- Structures 5 μm Analytical Sensitivity Amphibole			
		Chry	Amph	Cleavage	Non-Asbestos	Chry	Asb	Cleavage Fragment	Non-Asbestos
22 - RH #30	3158844	0	0	1	0	<u>< 5.0E-5</u> 5.0E-5	<u>< 6.2E-5</u> 6.2E-5	<u>1.5E-2</u> 4.0E-5	<u>< 3.7E-5</u> 3.7E-5

NOTES

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- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2 * 10⁻³ ng/ μ m³, density of chrysotile: 2.55 * 10⁻³ ng/ μ m³, density of non-asbestos: 3.00 * 10⁻³ ng/ μ m³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
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RJ Lee Group, Inc.

RJ Lee Group Job No: LLH901997-24
Client Job No/Name:

Final Laboratory Report (cont'd)

Client: K & L Gates
Report Date: 08/13/2020

Client Sample Number	RJLG Sample Number	Material Used (gm)	Area Analyzed Total (mm ²)	Area Analyzed 5 μm (mm ²)	Effective Filter Area (mm ²)	Dilution Factor
22 - RH #30	3158844	0.0002	0.30731	0.30731	1220	1.0

Authorized Signature: 
Ashleigh Sload, Scientist

NOTES

- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2×10^{-3} ng/μm³, density of chrysotile: 2.55×10^{-3} ng/μm³, density of non-asbestos: 3.00×10^{-3} ng/μm³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
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RJ Lee Group, Inc.
TEM Count Sheet

RJL: LLH901997-24	3158844.HTA2	Microscope tem2000fx2	Grid Openings	10
22 - RH #30	K & L Gates	Magnification 20 KX	Asbestos	0.0
Wt: 0.0002 gm	Grid: 0.0088 mm ²	Acc. Voltage 120 KV	Asbestos >= 5µm	0.0
Dil: 1.	Filter Size: 47 mm	Operator: Jon Swope	Nonasbestos	27.0
HQ45459		Cv = 0	Nonasbestos >= 5µm	1.0
			% Wt of largest asbestos structure	%

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1	1	2.95	0.4	Amphibole		MgSiCaFeAl	5873D	Image6	Diff6	Acti	Cle
1	2	1.9	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
1	3	1.6	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
1	4	5.4	0.5	Amphibole		MgSiCaFe			X	Acti	Cle
1	5	2.2	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
2	1	1.5	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
2	2	1.2	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
2	3	0.9	0.15	Amphibole		MgSiCaFe			X	Acti	Cle
2	4	1.4	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
3	1	4.3	0.6	Amphibole		MgSiCaFe			X	Acti	Cle
3	2	1.6	0.25	Amphibole		MgSiCaFe			X	Acti	Cle
3	3	1.3	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
4	1	1.3	0.22	Amphibole		MgSiCaFe			X	Acti	Cle
4	2	2.9	0.4	Amphibole		MgSiCaFeAl	5874D	Image7	X	Acti	Cle
5	1	1.3	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
6	1	2.4	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
6	2	1.2	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
7	1	1.6	0.25	Amphibole		MgSiCaFe			X	Acti	Cle
7	2	1.4	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
7	3	1.6	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
8	1	2.3	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
8	2	4.8	0.45	Amphibole		MgSiCaFe			X	Acti	Cle
8	3	3.5	0.4	Amphibole		MgSiCaFeAl	5875D	Image8	Diff8	Acti	Cle
8	4	2.6	0.4	Amphibole		MgSiCaFe				Acti	Cle
9	1	1.3	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
9	2	2.5	0.35	Amphibole		MgSiCaFe			X	Acti	Cle
10	1	2.4	0.2	Amphibole		MgSiCaFe			X	Acti	Cle

10% Particulate

Analyst's Comments: N/A

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 7/27/2020 10:31:29 AM approve by Jacquelyn Mershon

Final Review: 8/13/20 8:23 AM approve by Ashleigh Sload

RJL: LLH901997-24	3158844.HTA2	Microscope tem2000fx2	Grid Openings	25
22 - RH #30	K & L Gates	Magnification 10 KX	Asbestos	0.0
Wt: 0.0002 gm	Grid: 0.0088 mm ²	Acc. Voltage 120 KV	Nonasbestos	0.0
Dil: 1.	Filter Size: 47 mm	Operator: Jon Swope	% Wt of largest asbestos structure	%
HQ45459		Cv = 0		

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1				NSD							
2				NSD							
3				NSD							
4				NSD							
5				NSD							
6				NSD							
7				NSD							
8				NSD							
9				NSD							
10				NSD							
11				NSD							
12				NSD							
13				NSD							
14				NSD							
15				NSD							
16				NSD							
17				NSD							
18				NSD							
19				NSD							
20				NSD							
21				NSD							
22				NSD							
23				NSD							
24				NSD							
25				NSD							

10% Particulate

Analyst's Comments: N/A

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 7/27/2020 9:07:31 AM approve by Jacquelyn Mershon

Final Review: 8/13/20 8:23 AM approve by Ashleigh Sload

Final Laboratory Report

TEM Bulk Protocol

Attention: David Raphael
K & L Gates
17 North Second Street
Harrisburg, PA 17101
US

Report Date: 08/13/2020
 Sample Receipt Date:
 RJ Lee Group Job No.: LLH901997-24
 Authorization/P.O. No.:
 Samples Received: 1
 Client Job No.:

Method: ISO 22262-2

TABLE 1 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos

Client Sample Number	RJLG Sample Number	<u>Total Structures</u>				-----Weight Percent----- <u>Total Structures</u> Analytical Sensitivity			
		Chry	Amph	Cleavage	Non Asbestos	Chry	Amph Asb	Amph Cleavage Fragment	Non Asbestos
22 - RH #30	3158844	0	0	27	0	< 5.0E-6 5.0E-6	< 4.0E-6 4.0E-6	8.3E-2 4.0E-6	< 3.7E-6 3.7E-6

NOTES

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3. If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
4. Density of amphibole: 3.2×10^{-3} ng/ μ m³, density of chrysotile: 2.55×10^{-3} ng/ μ m³, density of non-asbestos: 3.00×10^{-3} ng/ μ m³.
5. Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
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RJ Lee Group Job No: LLH901997-24
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/13/2020

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos 5 μm

Client Sample Number	RJLG Sample Number	-----Structures 5 μm-----				-----Weight Percent----- Structures 5 μm Analytical Sensitivity Amphibole			
		Chry	Amph	Cleavage	Non-Asbestos	Chry	Asb	Cleavage Fragment	Non-Asbestos
22 - RH #30	3158844	0	0	1	0	<u>< 5.0E-5</u> 5.0E-5	<u>< 4.0E-5</u> 4.0E-5	<u>1.5E-2</u> 4.0E-5	<u>< 3.7E-5</u> 3.7E-5

NOTES

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RJ Lee Group, Inc.

RJ Lee Group Job No: LLH901997-24
Client Job No/Name:

Final Laboratory Report (cont'd)

Client: K & L Gates
Report Date: 08/13/2020

Client Sample Number	RJLG Sample Number	Material Used (gm)	Area Analyzed Total (mm ²)	Area Analyzed 5 μm (mm ²)	Effective Filter Area (mm ²)	Dilution Factor
22 - RH #30	3158844	0.0002	0.30731	0.30731	1220	1.0

Authorized Signature: 
Ashleigh Sload, Scientist

NOTES

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RJ Lee Group, Inc
LLH901997-24
3158844.HTA2

K & L Gates
22 - RH #30

27-Jul-20

Air volume:
Area of collection filter:
Volume flowrate:
Level of analysis (chrysotile): NA
Level of analysis (amphibole): AZQ
Magnification used for structure counting:
Aspect ratio for fibre definition: 3:1
Mean dimension of grid openings: 0.00878032
Initials of analyst: JM
Number of grid openings examined: 35
Analytical sensitivity:
Number of primary asbestos structures: 27
Number of asbestos structures counted: 27
Number of asbestos structures >5 µm: 1
Number of fibres and bundles > 5 µm: 1
Number of PCM equivalent asbestos structures: 1
Number of PCM equivalent asbestos fibres: 1

TEM asbestos structure count					
Report Number:	LLH901997-24				
Sample Number:	3158844.HTA2		Sample Weight:	0.0002	
Sample Description:	22 - RH #30		Filter area (mm ²):	1220	
			Magnification:	10/20 KX	
			Grid opening dimension (mm ²):	0.00878032	
Preparation date:	06/12/20	By:	RAM		
Analysis date:	07/27/20	By:	JM	Level of analysis (chrysotile)	NA
Computer entry date:	08/5/20	By:	MMK	Level of analysis (amphibole)	AZQ

Grid	Grid Opening	Structures		Identification	Structure type	Length (µm)	Width (µm)	Fibre Type	Comments
		primary	total						
1	H1	1	1	AZQ	F	2.95	0.4		
		2	2	ADX	F	1.9	0.3		
		3	3	ADX	F	1.6	0.3		
		4	4	ADX	F	5.4	0.5		
		5	5	ADX	F	2.2	0.3		
	H3	6	6	ADX	F	1.5	0.3		
		7	7	ADX	F	1.2	0.2		
		8	8	ADX	F	0.9	0.15		
		9	9	ADX	F	1.4	0.2		
	H5	10	10	ADX	F	4.3	0.6		
		11	11	ADX	F	1.6	0.25		
		12	12	ADX	F	1.3	0.2		
	H7	13	13	ADX	F	1.3	0.22		
		14	14	ADQ	F	2.9	0.4		
	H9	15	15	ADX	F	1.3	0.2		
	D1								
	D3								
	D5								
	D7								
	D9								
	F9								
	F7								
	F4								
	F2								
	I1								
	I3								
	I5								
	I7								
2	D1								
	D3								
	D5								
	D7								
	D9								
	F9								
	F7								
	F4								
	F2								
	H2								
	H4								
	H6								
	H1	16	16	ADX	F	2.4	0.3		
		17	17	ADX	F	1.2	0.2		
	H3	18	18	ADX	F	1.6	0.25		

TEM asbestos structure count					
Report Number:	LLH901997-24				
Sample Number:	3158844.HTA2		Sample Weight:	0.0002	
Sample Description:	22 - RH #30		Filter area (mm ²):	1220	
			Magnification:	10/20 KX	
			Grid opening dimension (mm ²)	0.00878032	
Preparation date:	06/12/20	By:	RAM		
Analysis date:	07/27/20	By:	JM	Level of analysis (chrysotile)	NA
Computer entry date:	08/5/20	By:	MMK	Level of analysis (amphibole)	AZQ

Grid	Grid Opening	Structues		Identification	Structure type	Length (µm)	Width (µm)	Fibre Type	Comments
		primary	total						
		19	19	ADX	F	1.4	0.2		
		20	20	ADX	F	1.6	0.2		
	H5	21	21	ADX	F	2.3	0.2		
		22	22	ADX	F	4.8	0.45		
		23	23	AZQ	F	3.5	0.4		
		24	24	ADX	F	2.6	0.4		
	H7	25	25	ADX	F	1.3	0.2		
		26	26	ADX	F	2.5	0.35		
	H9	27	27	ADX	F	2.4	0.2		

Final Laboratory Report

TEM Bulk Protocol

Attention: David Raphael
K & L Gates
17 North Second Street
Harrisburg, PA 17101
US

Report Date: 08/12/2020
Sample Receipt Date:
RJ Lee Group Job No.: LLH901997-24
Authorization/P.O. No.:
Samples Received: 1
Client Job No.:

Method: EPA/R-93/600/116

TABLE 1 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos

Client Sample Number	RJLG Sample Number	Total Structures				-----Weight Percent----- Total Structures Analytical Sensitivity			
		Chry	Amph	Cleavage	Non Asbestos	Chry	Amph Asb	Amph Cleavage Fragment	Non Asbestos
23 - RH #31	3158845	0	21	67	1	< 2.0E-5 2.0E-5	1.1E-1 2.5E-5	5.2E-1 1.6E-5	5.2E-2 1.5E-5

NOTES

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- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
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RJ Lee Group Job No: LLH901997-24
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/12/2020

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos 5 µm

Client Sample Number	RJLG Sample Number	-----Structures 5 µm-----				-----Weight Percent----- Structures 5 µm Analytical Sensitivity			
		Chry	Amph	Cleavage	Non-Asbestos	Amphibole			
						Chry	Asb	Cleavage Fragment	Non-Asbestos
23 - RH #31	3158845	0	2	3	0	<u>< 2.0E-4</u> 2.0E-4	<u>5.2E-2</u> 2.5E-4	<u>2.9E-1</u> 1.6E-4	<u>< 1.5E-4</u> 1.5E-4

NOTES

- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2 * 10⁻³ ng/µm³, density of chrysotile: 2.55 * 10⁻³ ng/µm³, density of non-asbestos: 3.00 * 10⁻³ ng/µm³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
- These results are submitted pursuant to RJ Lee Group'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 these results are used or interpreted.

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RJ Lee Group, Inc.

RJ Lee Group Job No: LLH901997-24
Client Job No/Name:

Final Laboratory Report (cont'd)

Client: K & L Gates
Report Date: 08/12/2020

Client Sample Number	RJLG Sample Number	Material Used (gm)	Area Analyzed Total (mm ²)	Area Analyzed 5 μm (mm ²)	Effective Filter Area (mm ²)	Dilution Factor
23 - RH #31	3158845	0.00005	0.30594	0.30594	1220	1.0

Authorized Signature: 
Ashleigh Sload, Scientist

NOTES

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RJ Lee Group, Inc.
TEM Count Sheet

RJL: LLH901997-24	3158845.HTA5	Microscope tem2000fx1	Grid Openings	10
23 - RH #31	K & L Gates	Magnification 21 KX	Asbestos	21.0
Wt: 0.0001 gm	Grid: 0.0087 mm ²	Acc. Voltage 120 KV	Asbestos >= 5µm	2.0
Dil: 1.	Filter Size: 47 mm	Operator: Jacquelyn Mershon	Nonasbestos	66.0
HQ45578		Cv = 2.09	Nonasbestos >= 5µm % Wt of largest asbestos structure	1.0 %

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1	1	4.83	0.23	Amphibole	F	MgSiCaFe	16587C	Image1	Diff2	Acti	Asb
1	2	0.92	0.1	Amphibole		MgSiCaFe			X	Acti	Cle
1	3	1.38	0.1	Amphibole		MgSiCaFe			X	Acti	Cle
1	4	1.15	0.1	Amphibole		MgSiCaFe			X	Acti	Cle
1	5	2.29	0.45	Amphibole		MgSiCaFe			X	Acti	Cle
1	6	1.38	0.08	Amphibole		MgSiCaFe			X	Acti	Cle
1	7	1.15	0.05	Amphibole		MgSiCaFe			X	Acti	Cle
1	8	1.73	0.1	Amphibole		MgSiCaFe			X	Acti	Cle
1	9	1.53	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
1	10	1.84	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
1	11	3.07	0.23	Amphibole		MgSiCaFe	16588C	Image2	Diff3	Acti	Cle
1	12	1.26	0.13	Amphibole		MgSiCaFe			X	Acti	Cle
1	13	2.65	0.7	Non-Asbestos		MgSiCaFe	15860D	Image11	Diff12	CPX	
2	1	1.73	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
2	2	1.15	0.15	Amphibole		MgSiCaFe			X	Acti	Cle
2	3	1.15	0.13	Amphibole		MgSiCaFe			X	Acti	Cle
2	4	2.88	0.15	Amphibole		MgSiCaFe			X	Acti	Cle
2	5	2.07	0.08	Amphibole	F	MgSiCaFe			X	Acti	Asb
2	6	1.15	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
2	7	1.5	0.13	Amphibole		MgSiCaFe			X	Acti	Cle
2	8	1.61	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
2	9	1.96	0.1	Amphibole		MgSiCaFe	16589C	Image3	Diff4	Acti	Cle
2	10	1.38	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
3	1	1.26	0.1	Amphibole		MgSiCaFe			X	Acti	Cle
3	2	1.26	0.25	Amphibole		MgSiCaFe			X	Acti	Cle
3	3	1.38	0.05	Amphibole	F	MgSiCaFe			X	Acti	Asb
3	4	1.15	0.08	Amphibole		MgSiCaFe			X	Acti	Cle
3	5	1.43	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
3	6	2.65	0.1	Amphibole	F	MgSiCaFe			X	Acti	Asb
3	7	2.07	0.33	Amphibole		MgSiCaFe			X	Acti	Cle
3	8	1.73	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
3	9	2.29	0.12	Amphibole	F	MgSiCaFe	16590C	Image4	Diff5	Acti	Asb
3	10	2.29	0.05	Amphibole	F	MgSiCaFe			X	Acti	Asb
4	1	1.15	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
4	2	1.15	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
4	3	1.38	0.05	Amphibole	F	MgSiCaFe			X	Acti	Asb
4	4	1.04	0.15	Amphibole		MgSiCaFe			X	Acti	Cle
4	5	2.42	0.23	Amphibole		MgSiCaFe			X	Acti	Cle
4	6	2.99	0.12	Amphibole	F	MgSiCaFe			X	Acti	Asb
4	7	1.38	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
4	8	1.84	0.15	Amphibole		MgSiCaFe			X	Acti	Cle
4	9	8.51	0.25	Amphibole	F	MgSiCaFe	16591C	Image5	Diff6	Acti	Asb
4	10	1.26	0.05	Amphibole	F	MgSiCaFe			X	Acti	Asb
5	1	1.48	0.15	Amphibole		MgSiCaFe			X	Acti	Cle

RJ Lee Group, Inc.
TEM Count Sheet

RJL: LLH901997-24	3158845.HTA5	Microscope tem2000fx1	Grid Openings	10
23 - RH #31	K & L Gates	Magnification 21 KX	Asbestos	21.0
Wt: 0.0001 gm	Grid: 0.0087 mm ²	Acc. Voltage 120 KV	Asbestos >= 5µm	2.0
Dil: 1.	Filter Size: 47 mm	Operator: Jacquelyn Mershon	Nonasbestos	66.0
HQ45578		Cv = 2.09	Nonasbestos >= 5µm % Wt of largest asbestos structure	1.0 %

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
5	2	1.26	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
5	3	1.84	0.25	Amphibole		MgSiCaFe			X	Acti	Cle
5	4	1.84	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
5	5	2.07	0.08	Amphibole	F	MgSiCaFe			X	Acti	Asb
5	6	2.76	0.25	Amphibole		MgSiCaFe			X	Acti	Cle
5	7	1.26	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
5	8	2.07	0.3	Amphibole		MgSiCaFe	16592C	Image6	Diff8	Acti	Cle
6	1	2.29	0.35	Amphibole		MgSiCaFe			X	Acti	Cle
6	2	1.04	0.18	Amphibole		MgSiCaFe			X	Acti	Cle
6	3	1.15	0.1	Amphibole		MgSiCaFe			X	Acti	Cle
6	4	1.38	0.15	Amphibole		MgSiCaFe			X	Acti	Cle
7	1	2.76	0.25	Amphibole		MgSiCaFe			X	Acti	Cle
7	2	2.29	0.12	Amphibole	F	MgSiCaFe			X	Acti	Asb
7	3	0.74	0.1	Amphibole		MgSiCaFe			X	Acti	Cle
7	4	1.84	0.25	Amphibole		MgSiCaFe			X	Acti	Cle
7	5	2.53	0.3	Amphibole	C	MgSiCaFe		Image7	X	Acti	Asb
7	6	2.53	0.25	Amphibole		MgSiCaFe			X	Acti	Cle
7	7	1.84	0.28	Amphibole		MgSiCaFe	16593C	Image8	Diff9	Acti	Cle
7	8	2.76	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
7	9	1.84	0.1	Amphibole		MgSiCaFe			X	Acti	Cle
8	1	1.61	0.23	Amphibole		MgSiCaFe			X	Acti	Cle
8	2	2.39	0.08	Amphibole	F	MgSiCaFe			X	Acti	Asb
8	3	2.49	0.1	Amphibole	F	MgSiCaFe			X	Acti	Asb
8	4	2.49	0.12	Amphibole	F	MgSiCaFe			X	Acti	Asb
8	5	2.76	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
9	1	2.29	0.05	Amphibole	F	MgSiCaFe			X	Acti	Asb
9	2	2.75	0.35	Amphibole		MgSiCaFe			X	Acti	Cle
9	3	8.02	0.18	Amphibole	F	MgSiCaFe	16594C	Image9	Diff10	Acti	Asb
9	4	1.38	0.25	Amphibole		MgSiCaFe			X	Acti	Cle
9	5	3.44	0.12	Amphibole	F	MgSiCaFe			X	Acti	Asb
9	6	1.84	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
9	7	2.07	0.23	Amphibole		MgSiCaFe			X	Acti	Cle
9	8	3.68	0.05	Amphibole	F	MgSiCaFe			X	Acti	Asb
10	1	2.29	0.25	Amphibole		MgSiCaFe			X	Acti	Cle
10	2	1.95	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
10	3	1.04	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
10	4	5.73	1.02	Amphibole		MgSiCaFe	16595C	Image10	Diff11	Acti	Cle
10	5	1.61	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
10	6	1.38	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
10	7	1.61	0.25	Amphibole		MgSiCaFe			X	Acti	Cle
10	8	1.15	0.05	Amphibole	F	MgSiCaFe			X	Acti	Asb
10	9	1.04	0.18	Amphibole		MgSiCaFe			X	Acti	Cle
10	10	0.87	0.15	Amphibole		MgSiCaFe			X	Acti	Cle

5% Particulate

RJ Lee Group, Inc.
TEM Count Sheet

RJL: LLH901997-24	3158845.HTA5	Microscope tem2000fx1	Grid Openings	10
23 - RH #31	K & L Gates	Magnification 21 KX	Asbestos	21.0
Wt: 0.0001 gm	Grid: 0.0087 mm ²	Acc. Voltage 120 KV	Asbestos >= 5µm	2.0
Dil: 1.	Filter Size: 47 mm	Operator: Jacquelyn Mershon	Nonasbestos	66.0
HQ45578		Cv = 2.09	Nonasbestos >= 5µm	1.0
			% Wt of largest asbestos structure	%

Analyst's Comments: N/A

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 7/30/2020 1:19:07 PM approve by Jacquelyn Mershon

Final Review: 8/12/20 5:18 PM approve by Ashleigh Sload

RJL: LLH901997-24	3158845.HTA5	Microscope tem2000fx1	Grid Openings	25
23 - RH #31	K & L Gates	Magnification 10 KX	Asbestos	0.0
Wt: 0.0001 gm	Grid: 0.0087 mm ²	Acc. Voltage 120 KV	Nonasbestos	2.0
Dil: 1.	Filter Size: 47 mm	Operator: Jacquelyn Mershon	% Wt of largest asbestos	%
HQ45578		Cv = 0	structure	

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1				NSD							
2				NSD							
3				NSD							
4				NSD							
5				NSD							
6				NSD							
7	1	5.31	0.27	Amphibole		MgSiCaFe16596C		Image1	Diff1	Acti	Cle
8				NSD							
9				NSD							
10				NSD							
11				NSD							
12				NSD							
13				NSD							
14				NSD							
15	1	5.67	0.54	Amphibole		MgSiCaFe			X	Acti	Cle
16				NSD							
17				NSD							
18				NSD							
19				NSD							
20				NSD							
21				NSD							
22				NSD							
23				NSD							
24				NSD							
25				NSD							

5% Particulate

Analyst's Comments: N/A

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 7/30/2020 1:41:58 PM approve by Jacquelyn Mershon

Final Review: 8/12/20 5:18 PM approve by Ashleigh Sload

Final Laboratory Report

TEM Bulk Protocol

Attention: David Raphael
K & L Gates
17 North Second Street
Harrisburg, PA 17101
US

Report Date: 08/12/2020
Sample Receipt Date:
RJ Lee Group Job No.: LLH901997-24
Authorization/P.O. No.:
Samples Received: 1
Client Job No.:

Method: ISO 22262-2

TABLE 1 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos

Client Sample Number	RJLG Sample Number	Total Structures				-----Weight Percent----- Total Structures Analytical Sensitivity			
		Chry	Amph	Cleavage	Non Asbestos	Chry	Amph Asb	Amph Cleavage Fragment	Non Asbestos
23 - RH #31	3158845	0	21	67	1	< 2.0E-5 2.0E-5	6.8E-2 1.6E-5	5.2E-1 1.6E-5	5.2E-2 1.5E-5

NOTES

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- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2×10^{-3} ng/ μ m³, density of chrysotile: 2.55×10^{-3} ng/ μ m³, density of non-asbestos: 3.00×10^{-3} ng/ μ m³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
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RJ Lee Group Job No: LLH901997-24
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/12/2020

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos 5 μm

Client Sample Number	RJLG Sample Number	-----Structures 5 μm-----				-----Weight Percent----- Structures 5 μm Analytical Sensitivity			
		Chry	Amph	Cleavage	Non-Asbestos	Amphibole			
						Chry	Asb	Cleavage Fragment	Non-Asbestos
23 - RH #31	3158845	0	2	3	0	<u>< 2.0E-4</u> 2.0E-4	<u>3.4E-2</u> 1.6E-4	<u>2.9E-1</u> 1.6E-4	<u>< 1.5E-4</u> 1.5E-4

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- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
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RJ Lee Group, Inc.

RJ Lee Group Job No: LLH901997-24
Client Job No/Name:

Final Laboratory Report (cont'd)

Client: K & L Gates
Report Date: 08/12/2020

Client Sample Number	RJLG Sample Number	Material Used (gm)	Area Analyzed Total (mm ²)	Area Analyzed 5 μm (mm ²)	Effective Filter Area (mm ²)	Dilution Factor
23 - RH #31	3158845	0.00005	0.30594	0.30594	1220	1.0

Authorized Signature: 
Ashleigh Sload, Scientist

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- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
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RJ Lee Group, Inc
LLH901997-24
3158845.HTA5

K & L Gates
23 - RH #31

30-Jul-20

Air volume:
Area of collection filter:
Volume flowrate:
Level of analysis (chrysotile): NA
Level of analysis (amphibole): AZQ
Magnification used for structure counting:
Aspect ratio for fibre definition: 3:1
Mean dimension of grid openings: 0.00874123
Initials of analyst: JM
Number of grid openings examined: 35
Analytical sensitivity:
Number of primary asbestos structures: 88
Number of asbestos structures counted: 88
Number of asbestos structures >5 µm: 5
Number of fibres and bundles > 5 µm: 5
Number of PCM equivalent asbestos structures: 4
Number of PCM equivalent asbestos fibres: 3

TEM asbestos structure count					
Report Number:	LLH901997-24			Sample Weight:	0.000051
Sample Number:	3158845.HTA5			Filter area (mm2):	1220
Sample Description:	23 - RH #31			Magnification:	10/20 KX
				Grid opening dimension (mm2)	0.00874123
Preparation date:	07/29/20	By:	MK		
Analysis date:	07/30/20	By:	JM	Level of analysis (chrysotile)	NA
Computer entry date:	08/5/20	By:	MMK	Level of analysis (amphibole)	AZQ

Grid	Grid Opening	Structures		Identification	Structure type	Length (µm)	Width (µm)	Fibre Type	Comments
		primary	total						
1	H1	1	1	AZQ	F	4.83	0.23	Actinolite	
		2	2	ADX	F	0.92	0.1	Actinolite	
		3	3	ADX	F	1.38	0.1	Actinolite	
		4	4	ADX	F	1.15	0.1	Actinolite	
		5	5	ADX	F	2.29	0.45	Actinolite	
		6	6	ADX	F	1.39	0.08	Actinolite	
		7	7	ADX	F	1.15	0.05	Actinolite	
		8	8	ADX	F	1.73	0.1	Actinolite	
		9	9	ADX	F	1.53	0.2	Actinolite	
		10	10	ADX	F	1.84	0.2	Actinolite	
		11	11	AZQ	F	3.07	0.23	Actinolite	
		12	12	ADX	F	1.26	0.13	Actinolite	
				NAM		2.65	0.7	CPX	
13		13	13	ADX	F	1.73	0.2	Actinolite	
		14	14	ADX	F	1.15	0.15	Actinolite	
		15	15	ADX	F	1.15	0.13	Actinolite	
		16	16	ADX	F	2.88	0.15	Actinolite	
		17	17	ADX	F	2.07	0.08	Actinolite	
		18	18	ADX	F	1.15	0.2	Actinolite	
		19	19	ADX	F	1.5	0.13	Actinolite	
		20	20	ADX	F	1.61	0.2	Actinolite	
		21	21	AZQ	F	1.96	0.1	Actinolite	
		22	22	ADX	F	1.38	0.2	Actinolite	
15		23	23	ADX	F	1.26	0.1	Actinolite	
		24	24	ADX	F	1.26	0.25	Actinolite	
		25	25	ADX	F	1.38	0.05	Actinolite	
		26	26	ADX	F	1.15	0.08	Actinolite	
		27	27	ADX	F	1.43	0.2	Actinolite	
		28	28	ADX	F	2.65	0.1	Actinolite	
		29	29	ADX	F	2.07	0.33	Actinolite	
		30	30	ADX	F	1.73	0.2	Actinolite	
		31	31	AZQ	F	2.29	0.12	Actinolite	
		32	32	ADX	F	2.29	0.05	Actinolite	
17		33	33	ADX	F	1.15	0.2	Actinolite	
		34	34	ADX	F	1.15	0.2	Actinolite	
		35	35	ADX	F	1.38	0.05	Actinolite	
		36	36	ADX	F	1.04	0.15	Actinolite	
		37	37	ADX	F	2.42	0.23	Actinolite	
		38	38	ADX	F	2.99	0.12	Actinolite	
		39	39	ADX	F	1.38	0.2	Actinolite	
		40	40	ADX	F	1.84	0.15	Actinolite	
		41	41	AZQ	B	8.51	0.25	Actinolite	
		42	42	ADX	F	1.26	0.05	Actinolite	

TEM asbestos structure count					
Report Number:	LLH901997-24			Sample Weight:	0.000051
Sample Number:	3158845.HTA5			Filter area (mm ²):	1220
Sample Description:	23 - RH #31			Magnification:	10/20 KX
				Grid opening dimension (mm ²)	0.00874123
Preparation date:	07/29/20	By:	MK		
Analysis date:	07/30/20	By:	JM	Level of analysis (chrysotile)	NA
Computer entry date:	08/5/20	By:	MMK	Level of analysis (amphibole)	AZQ

Grid	Grid Opening	Structures		Identification	Structure type	Length (µm)	Width (µm)	Fibre Type	Comments
		primary	total						
	I9	43	43	ADX	F	1.48	0.15	Actinolite	
		44	44	ADX	F	1.26	0.2	Actinolite	
		45	45	ADX	F	1.84	0.25	Actinolite	
		46	46	ADX	F	1.84	0.3	Actinolite	
		47	47	ADX	F	2.07	0.08	Actinolite	
		48	48	ADX	F	2.76	0.25	Actinolite	
		49	49	ADX	F	1.26	0.2	Actinolite	
		50	50	AZQ	F	2.07	0.3	Actinolite	
	B1								
	B3								
	B5								
	B7								
	B9								
	D6								
	D7	51	51	AZQ	F	5.31	0.27	Actinolite	
	D5								
	D3								
	D1								
	F2								
	F4								
2	F8								
	B3								
	B5	52	52	ADX	F	5.67	0.54	Actinolite	
	B7								
	B9								
	D10								
	D8								
	D6								
	D4								
	D2								
	F1								
	F3								
	F7								
	I2	53	53	ADX	F	2.29	0.35	Actinolite	
		54	54	ADX	F	1.04	0.18	Actinolite	
		55	55	ADX	F	1.15	0.1	Actinolite	
		56	56	ADX	F	1.38	0.15	Actinolite	
	I4	57	57	ADX	F	2.76	0.25	Actinolite	
		58	58	ADX	F	2.29	0.12	Actinolite	
		59	59	ADX	F	0.74	0.1	Actinolite	
		60	60	ADX	F	1.84	0.25	Actinolite	
		61	61	ADX	CC+0	2.53	0.7	Actinolite	
		62	62	ADX	F	2.53	0.25	Actinolite	

TEM asbestos structure count					
Report Number:	LLH901997-24			Sample Weight:	0.000051
Sample Number:	3158845.HTA5			Filter area (mm ²):	1220
Sample Description:	23 - RH #31			Magnification:	10/20 KX
				Grid opening dimension (mm ²)	0.00874123
Preparation date:	07/29/20	By:	MK		
Analysis date:	07/30/20	By:	JM	Level of analysis (chrysotile)	NA
Computer entry date:	08/5/20	By:	MMK	Level of analysis (amphibole)	AZQ

Grid	Grid Opening	Structures		Identification	Structure type	Length (µm)	Width (µm)	Fibre Type	Comments
		primary	total						
		63	63	AZQ	F	1.84	0.28	Actinolite	
		64	64	ADX	F	2.76	0.2	Actinolite	
		65	65	ADX	F	1.84	0.1	Actinolite	
	I6	66	66	ADX	F	1.61	0.23	Actinolite	
		67	67	ADX	F	2.39	0.08	Actinolite	
		68	68	ADX	F	2.49	0.1	Actinolite	
		69	69	ADX	F	2.49	0.12	Actinolite	
		70	70	ADX	F	2.76	0.2	Actinolite	
	I8	71	71	ADX	F	2.29	0.05	Actinolite	
		72	72	ADX	F	2.75	0.35	Actinolite	
		73	73	AZQ	F	8.02	0.18	Actinolite	
		74	74	ADX	F	1.38	0.25	Actinolite	
		75	75	ADX	F	3.44	0.12	Actinolite	
		76	76	ADX	F	1.84	0.3	Actinolite	
		77	77	ADX	F	2.07	0.23	Actinolite	
		78	78	ADX	F	3.68	0.05	Actinolite	
	I10	79	79	ADX	F	2.29	0.25	Actinolite	
		80	80	ADX	F	1.95	0.3	Actinolite	
		81	81	ADX	F	1.04	0.2	Actinolite	
		82	82	AZQ	F	5.73	1.02	Actinolite	
		83	83	ADX	F	1.61	0.2	Actinolite	
		84	84	ADX	F	1.38	0.2	Actinolite	
		85	85	ADX	F	1.61	0.25	Actinolite	
		86	86	ADX	F	1.15	0.05	Actinolite	
		87	87	ADX	F	1.04	0.18	Actinolite	
		88	88	ADX	F	0.87	0.15	Actinolite	

Final Laboratory Report

TEM Bulk Protocol

Attention: David Raphael
K & L Gates
17 North Second Street
Harrisburg, PA 17101
US

Report Date: 08/13/2020
Sample Receipt Date:
RJ Lee Group Job No.: LLH901997-24
Authorization/P.O. No.:
Samples Received: 1
Client Job No.:

Method: EPA/R-93/600/116

TABLE 1 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos

Client Sample Number	RJLG Sample Number	Total Structures				-----Weight Percent----- Total Structures Analytical Sensitivity			
		Chry	Amph	Cleavage	Non Asbestos	Chry	Amph Asb	Amph Cleavage Fragment	Non Asbestos
24 - RH #32	3158846	0	0	19	0	< 1.7E-6 1.7E-6	< 2.1E-6 2.1E-6	2.9E-2 1.3E-6	< 1.2E-6 1.2E-6

NOTES

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- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2×10^{-3} ng/ μ m³, density of chrysotile: 2.55×10^{-3} ng/ μ m³, density of non-asbestos: 3.00×10^{-3} ng/ μ m³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
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RJ Lee Group Job No: LLH901997-24
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/13/2020

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos 5 μm

Client Sample Number	RJLG Sample Number	-----Structures 5 μm-----				-----Weight Percent----- Structures 5 μm Analytical Sensitivity Amphibole			
		Chry	Amph	Cleavage	Non-Asbestos	Chry	Asb	Cleavage Fragment	Non-Asbestos
24 - RH #32	3158846	0	0	1	0	<u>< 1.7E-5</u> 1.7E-5	<u>< 2.1E-5</u> 2.1E-5	<u>6.3E-3</u> 1.3E-5	<u>< 1.2E-5</u> 1.2E-5

NOTES

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- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2 * 10⁻³ ng/ μ m³, density of chrysotile: 2.55 * 10⁻³ ng/ μ m³, density of non-asbestos: 3.00 * 10⁻³ ng/ μ m³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
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RJ Lee Group, Inc.

Final Laboratory Report (cont'd)

RJ Lee Group Job No: LLH901997-24
Client Job No/Name:

Client: K & L Gates
Report Date: 08/13/2020

Client Sample Number	RJLG Sample Number	Material Used (gm)	Area Analyzed Total (mm ²)	Area Analyzed 5 μm (mm ²)	Effective Filter Area (mm ²)	Dilution Factor
24 - RH #32	3158846	0.0006	0.30731	0.30731	1220	1.0

Authorized Signature: 
Ashleigh Sload, Scientist

NOTES

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- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2×10^{-3} ng/μm³, density of chrysotile: 2.55×10^{-3} ng/μm³, density of non-asbestos: 3.00×10^{-3} ng/μm³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
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RJL: LLH901997-24	3158846.HTA1	Microscope tem2000fx2	Grid Openings	10
24 - RH #32	K & L Gates	Magnification 20 KX	Asbestos	0.0
Wt: 0.0006 gm	Grid: 0.0088 mm ²	Acc. Voltage 120 KV	Asbestos >= 5µm	0.0
Dil: 1.0	Filter Size: 47 mm	Operator: Jon Swope	Nonasbestos	18.0
HQ45459		Cv = 0	Nonasbestos >= 5µm	0.0
			% Wt of largest asbestos structure	%

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1				NSD							
2	1	2.2	0.4	Amphibole		MgSiCaFeAl	15870D	Image3	Diff3	Acti	Cle
2	2	1.4	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
2	3	1.6	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
2	4	1.7	0.25	Amphibole		MgSiCaFe			X	Acti	Cle
3	1	1.9	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
4	1	1.3	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
5				NSD							
6	1	1.8	0.22	Amphibole		MgSiCaFe			X	Acti	Cle
6	2	1.4	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
6	3	1.5	0.25	Amphibole		MgSiCaFe			X	Acti	Cle
7	1	1	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
8	1	2.2	0.45	Amphibole		MgSiCaFeAl	15871D	Image4	Diff4	Acti	Cle
8	2	4.8	0.5	Amphibole		MgSiCaFe			X	Acti	Cle
8	3	2.4	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
9	1	1.55	0.5	Amphibole		MgSiCaFe			X	Acti	Cle
9	2	3.7	0.4	Amphibole		MgSiCaFe			X	Acti	Cle
10	1	4.3	0.4	Amphibole		MgSiCaFe			X	Acti	Cle
10	2	3.2	0.5	Amphibole		MgSiCaFe			X	Acti	Cle
10	3	4.1	0.5	Amphibole		MgSiCaFe			X	Acti	Cle

10% Particulate

Analyst's Comments: N/A

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 7/27/2020 12:53:49 PM approve by Jacquelyn Mershon

Final Review: 8/13/20 8:33 AM approve by Ashleigh Sload

RJL: LLH901997-24	3158846.HTA1	Microscope tem2000fx2	Grid Openings	25
24 - RH #32	K & L Gates	Magnification 10 KX	Asbestos	0.0
Wt: 0.0006 gm	Grid: 0.0088 mm ²	Acc. Voltage 120 KV	Nonasbestos	1.0
Dil: 1.0	Filter Size: 47 mm	Operator: Jon Swope	% Wt of largest asbestos structure	%
HQ45459		Cv = 0		

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1				NSD							
2				NSD							
3				NSD							
4				NSD							
5				NSD							
6				NSD							
7				NSD							
8				NSD							
9				NSD							
10				NSD							
11				NSD							
12				NSD							
13				NSD							
14				NSD							
15				NSD							
16				NSD							
17				NSD							
18				NSD							
19				NSD							
20				NSD							
21				NSD							
22				NSD							
23				NSD							
24	1	6.9	0.8	Amphibole		MgSiCaFeAl	5872D	Image2	Diff2	Acti	Cle
25				NSD							

10% Particulate

Analyst's Comments: N/A

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 7/27/2020 12:32:23 PM approve by Jacquelyn Mershon

Final Review: 8/13/20 8:33 AM approve by Ashleigh Sload

Final Laboratory Report

TEM Bulk Protocol

Attention: David Raphael
K & L Gates
17 North Second Street
Harrisburg, PA 17101
US

Report Date: 08/13/2020
Sample Receipt Date:
RJ Lee Group Job No.: LLH901997-24
Authorization/P.O. No.:
Samples Received: 1
Client Job No.:

Method: ISO 22262-2

TABLE 1 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos

Client Sample Number	RJLG Sample Number	Total Structures				-----Weight Percent----- Total Structures Analytical Sensitivity			
		Chry	Amph	Cleavage	Non Asbestos	Chry	Amph Asb	Amph Cleavage Fragment	Non Asbestos
24 - RH #32	3158846	0	0	19	0	< 1.7E-6 1.7E-6	< 1.3E-6 1.3E-6	2.9E-2 1.3E-6	< 1.2E-6 1.2E-6

NOTES

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- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2×10^{-3} ng/ μ m³, density of chrysotile: 2.55×10^{-3} ng/ μ m³, density of non-asbestos: 3.00×10^{-3} ng/ μ m³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
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RJ Lee Group Job No: LLH901997-24
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/13/2020

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos 5 μm

Client Sample Number	RJLG Sample Number	-----Structures 5 μm-----				-----Weight Percent----- Structures 5 μm Analytical Sensitivity Amphibole			
		Chry	Amph	Cleavage	Non-Asbestos	Chry	Asb	Cleavage Fragment	Non-Asbestos
24 - RH #32	3158846	0	0	1	0	<u>< 1.7E-5</u> 1.7E-5	<u>< 1.3E-5</u> 1.3E-5	<u>6.3E-3</u> 1.3E-5	<u>< 1.2E-5</u> 1.2E-5

NOTES

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RJ Lee Group, Inc.

Final Laboratory Report (cont'd)

RJ Lee Group Job No: LLH901997-24
Client Job No/Name:

Client: K & L Gates
Report Date: 08/13/2020

Client Sample Number	RJLG Sample Number	Material Used (gm)	Area Analyzed Total (mm ²)	Area Analyzed 5 μm (mm ²)	Effective Filter Area (mm ²)	Dilution Factor
24 - RH #32	3158846	0.0006	0.30731	0.30731	1220	1.0

Authorized Signature: 
Ashleigh Sload, Scientist

NOTES

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RJ Lee Group, Inc
LLH901997-24
3158846.HTA1

K & L Gates
24 - RH #32

27-Jul-20

Air volume:
Area of collection filter:
Volume flowrate:
Level of analysis (chrysotile): NA
Level of analysis (amphibole): AZQ
Magnification used for structure counting:
Aspect ratio for fibre definition: 3:1
Mean dimension of grid openings: 0.00878032
Initials of analyst: JM
Number of grid openings examined: 35
Analytical sensitivity:
Number of primary asbestos structures: 18
Number of asbestos structures counted: 18
Number of asbestos structures >5 µm: 1
Number of fibres and bundles > 5 µm: 1
Number of PCM equivalent asbestos structures: 1
Number of PCM equivalent asbestos fibres: 1

TEM asbestos structure count					
Report Number:	LLH901997-24				
Sample Number:	3158846.HTA1		Sample Weight:	0.0006	
Sample Description:	24 - RH #32		Filter area (mm2):	1220	
			Magnification:	10/20 KX	
			Grid opening dimension (mm2)	0.00878032	
Preparation date:	06/12/20	By:	RAM		
Analysis date:	07/30/20	By:	JM	Level of analysis (chrysotile)	NA
Computer entry date:	08/5/20	By:	MMK	Level of analysis (amphibole)	AZQ

Grid	Grid Opening	Structues		Identification	Structure type	Length (µm)	Width (µm)	Fibre Type	Comments
		primary	total						
1	H1			No Fibres					
	H3	1	1	AZQ	F	2.2	0.4	Actinolite	
		2	2	ADX	F	1.4	0.2	Actinolite	
		3	3	ADX	F	1.6	0.3	Actinolite	
		4	4	ADX	F	1.7	0.25	Actinolite	
	H5	5	5	ADX	F	1.9	0.3	Actinolite	
	H7	6	6	ADX	F	1.3	0.2	Actinolite	
	H9			No Fibres					
	B1								
	B3								
	B5								
	B7								
	B9								
	D9								
	D7								
	D5								
	D3								
D1									
F1									
F3									
F7									
2	B1								
	B3								
	B5								
	B7								
	B9								
	D9								
	D7								
	D5								
	D3								
	D1								
	F1								
	F3	7	7	AZQ	F	6.9	0.8	Actinolite	
	I1	8	8	ADX	F	1.8	0.22	Actinolite	
		9	9	ADX	F	1.4	0.2	Actinolite	
		10	10	ADX	F	1.5	0.25	Actinolite	
	I3	11	11	ADX	F	1	0.2	Actinolite	
	I5	12	12	ADX	F	2.2	0.45	Actinolite	
I7	13	13	AZQ	F	2.2	0.45	Actinolite		
	14	14	ADX	F	4.8	0.5	Actinolite		
	15	15	ADX	F	2.4	0.3	Actinolite		
I9	16	16	ADX	F	4.3	0.4	Actinolite		
	17	17	ADX	F	3.2	0.5	Actinolite		

TEM asbestos structure count					
Report Number:	LLH901997-24				
Sample Number:	3158846.HTA1		Sample Weight:	0.0006	
Sample Description:	24 - RH #32		Filter area (mm ²):	1220	
			Magnification:	10/20 KX	
			Grid opening dimension (mm ²)	0.00878032	
Preparation date:	06/12/20	By:	RAM		
Analysis date:	07/30/20	By:	JM	Level of analysis (chrysotile)	NA
Computer entry date:	08/5/20	By:	MMK	Level of analysis (amphibole)	AZQ

Grid	Grid Opening	Structues		Identification	Structure type	Length (µm)	Width (µm)	Fibre Type	Comments
		primary	total						
		18	18	ADX	F	4.1	0.5	Actinolite	

Final Laboratory Report

TEM Bulk Protocol

Attention: David Raphael
K & L Gates
17 North Second Street
Harrisburg, PA 17101
US

Report Date: 08/13/2020
Sample Receipt Date:
RJ Lee Group Job No.: LLH901997-24
Authorization/P.O. No.:
Samples Received: 1
Client Job No.:

Method: EPA/R-93/600/116

TABLE 1 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos

Client Sample Number	RJLG Sample Number	Total Structures				-----Weight Percent----- Total Structures Analytical Sensitivity			
		Chry	Amph	Cleavage	Non Asbestos	Chry	Amph Asb	Amph Cleavage Fragment	Non Asbestos
25 - RH #33	3158847	0	7	57	0	< 9.9E-6 9.9E-6	2.3E-1 1.2E-5	2.3E0 7.9E-6	< 7.5E-6 7.5E-6

NOTES

- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2×10^{-3} ng/ μ m³, density of chrysotile: 2.55×10^{-3} ng/ μ m³, density of non-asbestos: 3.00×10^{-3} ng/ μ m³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
- These results are submitted pursuant to RJ Lee Group'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 these results are used or interpreted.

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RJ Lee Group Job No: LLH901997-24
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/13/2020

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos 5 μm

Client Sample Number	RJLG Sample Number	-----Structures 5 μm-----				-----Weight Percent----- Structures 5 μm Analytical Sensitivity			
		Chry	Amph	Cleavage	Non-Asbestos	Chry	Asb	Cleavage Fragment	Non-Asbestos
25 - RH #33	3158847	0	5	7	0	<u>< 9.9E-5</u> 9.9E-5	<u>2.3E-1</u> 1.2E-4	<u>1.9E0</u> 7.9E-5	<u>< 7.5E-5</u> 7.5E-5

NOTES

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- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2×10^{-3} ng/μm³, density of chrysotile: 2.55×10^{-3} ng/μm³, density of non-asbestos: 3.00×10^{-3} ng/μm³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
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RJ Lee Group, Inc.

RJ Lee Group Job No: LLH901997-24
Client Job No/Name:

Final Laboratory Report (cont'd)

Client: K & L Gates
Report Date: 08/13/2020

Client Sample Number	RJLG Sample Number	Material Used (gm)	Area Analyzed Total (mm ²)	Area Analyzed 5 μm (mm ²)	Effective Filter Area (mm ²)	Dilution Factor
25 - RH #33	3158847	0.0001	0.30731	0.30731	1220	1.0

Authorized Signature: 
Ashleigh Sload, Scientist

NOTES

- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2×10^{-3} ng/μm³, density of chrysotile: 2.55×10^{-3} ng/μm³, density of non-asbestos: 3.00×10^{-3} ng/μm³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
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RJL: LLH901997-24	3158847.HTA2	Microscope tem2000fx2	Grid Openings	10
25 - RH #33	K & L Gates	Magnification 20 KX	Asbestos	2.0
Wt: 0.0001 gm	Grid: 0.0088 mm ²	Acc. Voltage 120 KV	Asbestos >= 5µm	0.0
Dil: 1.	Filter Size: 47 mm	Operator: Jon Swope	Nonasbestos	52.0
HQ45459		Cv = 0.16	Nonasbestos >= 5µm	2.0
			% Wt of largest asbestos structure	%

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1	1	2.3	0.3	Amphibole		MgSiCaFeAl	5861D	Image52	Diff8	Acti	Cle
1	2	4.3	0.4	Amphibole		MgSiCaFe			X	Acti	Cle
1	3	1.5	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
1	4	4.4	0.5	Amphibole		MgSiCaFe			X	Acti	Cle
1	5	2.5	0.6	Amphibole		MgSiCaFe			X	Acti	Cle
2	1	1.3	0.15	Amphibole		MgSiCaFe			X	Acti	Cle
2	2	1.9	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
3	1	2.3	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
3	2	1.8	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
3	3	2.2	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
3	4	1.55	0.15	Amphibole		MgSiCaFe			X	Acti	Cle
4	1	2.5	0.45	Amphibole		MgSiCaFe	15862D	Image53	Diff9	Acti	Cle
4	2	1.6	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
4	3	3.5	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
4	4	4.8	0.5	Amphibole		MgSiCaFe			X	Acti	Cle
4	5	1.4	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
4	6	3.1	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
5	1	1.6	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
5	2	1.5	0.22	Amphibole		MgSiCaFe			X	Acti	Cle
5	3	1.8	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
5	4	2.4	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
5	5	1.6	0.3	Amphibole		MgSiCaFe	15863D	Image54	Diff10	Acti	Cle
5	6	2.2	0.4	Amphibole		MgSiCaFe			X	Acti	Cle
5	7	0.7	0.1	Amphibole		MgSiCaFe			X	Acti	Cle
5	8	2.4	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
6	1	2.6	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
6	2	4.3	0.5	Amphibole		MgSiCaFe			X	Acti	Cle
6	3	3.7	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
6	4	2.2	0.4	Amphibole		MgSiCaFe			X	Acti	Cle
6	5	2.6	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
6	6	2.8	0.5	Amphibole		MgSiCaFe			X	Acti	Cle
6	7	4.9	0.1	Amphibole	F	MgSiCaFeAl	5864D	Image55	Diff11	Acti	Asb
6	8	2.6	0.5	Amphibole		MgSiCaFe			X	Acti	Cle
6	9	1.5	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
6	10	2.5	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
7	1	2.4	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
7	2	2.4	0.25	Amphibole		MgSiCaFe			X	Acti	Cle
7	3	4.3	0.5	Amphibole		MgSiCaFe			X	Acti	Cle
7	4	13.6	2.1	Amphibole		MgSiCaFe			X	Acti	Cle
7	5	1.4	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
7	6	4.8	0.4	Amphibole		MgSiCaFe			X	Acti	Cle
8	1	2.25	0.4	Amphibole		MgSiCaFe			X	Acti	Cle
8	2	2.4	0.15	Amphibole		MgSiCaFeAl	5865D	Image56	Diff12	Acti	Cle
8	3	3.6	0.5	Amphibole		MgSiCaFe			X	Acti	Cle

RJ Lee Group, Inc.
TEM Count Sheet

RJL: LLH901997-24	3158847.HTA2	Microscope tem2000fx2	Grid Openings	10
25 - RH #33	K & L Gates	Magnification 20 KX	Asbestos	2.0
Wt: 0.0001 gm	Grid: 0.0088 mm ²	Acc. Voltage 120 KV	Asbestos >= 5µm	0.0
Dil: 1.	Filter Size: 47 mm	Operator: Jon Swope	Nonasbestos	52.0
HQ45459		Cv = 0.16	Nonasbestos >= 5µm	2.0
			% Wt of largest asbestos structure	%

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
8	4	5.6	0.5	Amphibole		MgSiCaFe			X	Acti	Cle
9	1	2.6	0.35	Amphibole		MgSiCaFe			X	Acti	Cle
9	2	1.8	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
9	3	3.2	0.3	Amphibole		MgSiCaFe			X	Acti	Cle
9	4	1.5	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
9	5	1.2	0.2	Amphibole		MgSiCaFe			X	Acti	Cle
10	1	1.5	0.25	Amphibole		MgSiCaFe			X	Acti	Cle
10	2	2.6	0.4	Amphibole		MgSiCaFe			X	Acti	Cle
10	3	2.5	0.22	Amphibole		MgSiCaFe			X	Acti	Cle
10	4	4.8	0.1	Amphibole	F	MgSiCaFe			X	Acti	Asb

8% Particulate

Analyst's Comments: N/A

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 7/20/2020 12:05:03 PM approve by Jacquelyn Mershon

Final Review: 8/13/20 8:43 AM approve by Ashleigh Sload

RJL: LLH901997-24	3158847.HTA2	Microscope tem2000fx2	Grid Openings	25
25 - RH #33	K & L Gates	Magnification 10 KX	Asbestos	5.0
Wt: 0.0001 gm	Grid: 0.0088 mm ²	Acc. Voltage 120 KV	Nonasbestos	5.0
Dil: 1.	Filter Size: 47 mm	Operator: Jon Swope	% Wt of largest asbestos structure	%
HQ45459		Cv = 0.16		

Field	Fiber	Length	Width	FiberType	Morph	EDX	File #	Photo	SAED	AmpID	C/A
1	1	5.7	0.3	Amphibole	F	MgSiCaFeAl	15866D	Image12 Image13	Diff4	Acti	Asb
2				NSD							
3	1	7.2	0.45	Amphibole	F	MgSiCaFe		Image14	X	Acti	Asb
4	1	9.5	0.8	Amphibole		MgSiCaFe			X	Acti	Cle
4	2	14.3	1.6	Amphibole		MgSiCaFe			X	Acti	Cle
5				NSD							
6	1	9.9	0.1	Amphibole	F	MgSiCaFe		Image15	X	Acti	Asb
7				NSD							
8	1	5.6	0.5	Amphibole		MgSiCaFe			X	Acti	Cle
9	1	7.9	0.98	Amphibole		MgSiCaFe			X	Acti	Cle
10				NSD							
11				NSD							
12				NSD							
13				NSD							
14	1	8.4	1.2	Amphibole		MgSiCaFe			X	Acti	Cle
15				NSD							
16	1	14.7	0.5	Amphibole	F	MgSiCaFe			X	Acti	Asb
17	1	6.9	1.3	Amphibole	F	MgSiCaFe			X	Acti	Asb
18				NSD							
19				NSD							
20				NSD							
21				NSD							
22				NSD							
23				NSD							
24				NSD							
25				NSD							

8% Particulate

Analyst's Comments: N/A

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 7/20/2020 1:03:50 PM approve by Jacquelyn Mershon

Final Review: 8/13/20 8:43 AM approve by Ashleigh Sload

Final Laboratory Report

TEM Bulk Protocol

Attention: David Raphael
K & L Gates
17 North Second Street
Harrisburg, PA 17101
US

Report Date: 08/13/2020
Sample Receipt Date:
RJ Lee Group Job No.: LLH901997-24
Authorization/P.O. No.:
Samples Received: 1
Client Job No.:

Method: ISO 22262-2

TABLE 1 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos

Client Sample Number	RJLG Sample Number	<u>Total Structures</u>				-----Weight Percent----- <u>Total Structures</u> Analytical Sensitivity			
		Chry	Amph	Cleavage	Non Asbestos	Chry	Amph Asb	Amph Cleavage Fragment	Non Asbestos
25 - RH #33	3158847	0	7	57	0	< 9.9E-6 9.9E-6	1.5E-1 7.9E-6	2.3E0 7.9E-6	< 7.5E-6 7.5E-6

NOTES

1. "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
2. Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
3. If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
4. Density of amphibole: 3.2×10^{-3} ng/ μ m³, density of chrysotile: 2.55×10^{-3} ng/ μ m³, density of non-asbestos: 3.00×10^{-3} ng/ μ m³.
5. Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
6. Samples will be held for 90 days and then disposed of per Federal regulations.
7. These results are submitted pursuant to RJ Lee Group'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 these results are used or interpreted.

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RJ Lee Group Job No: LLH901997-24
 Client Job No/Name:

Client: K & L Gates
 Report Date: 08/13/2020

TABLE 2 -- Weight Percent of Asbestos, Cleavage Fragment Amphibole and Non-Asbestos 5 μm

Client Sample Number	RJLG Sample Number	-----Structures 5 μm-----				-----Weight Percent----- Structures 5 μm Analytical Sensitivity			
		Chry	Amph	Cleavage	Non-Asbestos	Amphibole			
						Chry	Asb	Cleavage Fragment	Non-Asbestos
25 - RH #33	3158847	0	5	7	0	<u>< 9.9E-5</u> 9.9E-5	<u>1.5E-1</u> 7.9E-5	<u>1.9E0</u> 7.9E-5	<u>< 7.5E-5</u> 7.5E-5

NOTES

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- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2×10^{-3} ng/μm³, density of chrysotile: 2.55×10^{-3} ng/μm³, density of non-asbestos: 3.00×10^{-3} ng/μm³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
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RJ Lee Group, Inc.

RJ Lee Group Job No: LLH901997-24
Client Job No/Name:

Final Laboratory Report (cont'd)

Client: K & L Gates
Report Date: 08/13/2020

Client Sample Number	RJLG Sample Number	Material Used (gm)	Area Analyzed Total (mm ²)	Area Analyzed 5 μm (mm ²)	Effective Filter Area (mm ²)	Dilution Factor
25 - RH #33	3158847	0.0001	0.30731	0.30731	1220	1.0

Authorized Signature: 
Ashleigh Sload, Scientist

NOTES

- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA LAP, LLC #100364, NVLAP #101208-0, NY ELAP #10884) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Density of amphibole: 3.2×10^{-3} ng/μm³, density of chrysotile: 2.55×10^{-3} ng/μm³, density of non-asbestos: 3.00×10^{-3} ng/μm³.
- Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, Asb-Asbestos Amphibole, Cleavage-Cleavage Amphibole.
- Samples will be held for 90 days and then disposed of per Federal regulations.
- These results are submitted pursuant to RJ Lee Group'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 these results are used or interpreted.

DISCLAIMER

This report may not be used to claim product endorsement by NVLAP, NY ELAP, AIHA LAP, LLC, or any other regulatory or laboratory accrediting agency. Any reproduction of this document must be in full in order for the report to be valid. This report is not valid unless it bears a RJ Lee Group approved signatory.

These results are submitted pursuant to RJ Lee Group's current terms and conditions of sale, including the company's standard warranty and limiting provisions and 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, RJ Lee Group will store the samples for a period of ninety (90) days before discarding. A shipping and handling fee will be assessed for the return of any sample.

RJ Lee Group, Inc
LLH901997-24
3158847.HTA2

K & L Gates
25 - RH #33

20-Jul-20

Air volume:
Area of collection filter:
Volume flowrate:
Level of analysis (chrysotile): NA
Level of analysis (amphibole): AZQ
Magnification used for structure counting:
Aspect ratio for fibre definition: 3:1
Mean dimension of grid openings: 0.00878032
Initials of analyst: JM
Number of grid openings examined: 35
Analytical sensitivity:
Number of primary asbestos structures: 64
Number of asbestos structures counted: 64
Number of asbestos structures >5 µm: 12
Number of fibres and bundles > 5 µm: 12
Number of PCM equivalent asbestos structures: 11
Number of PCM equivalent asbestos fibres: 11

TEM asbestos structure count					
Report Number:	LLH901997-24			Sample Weight:	0.0001
Sample Number:	3158847.HTA2			Filter area (mm ²):	1220
Sample Description:	25 - RH #33			Magnification:	10/20 KX
				Grid opening dimension (mm ²)	0.00878032
Preparation date:	06/12/20	By:	RAM		
Analysis date:	07/30/20	By:	JM	Level of analysis (chrysotile)	NA
Computer entry date:	08/5/20	By:	MMK	Level of analysis (amphibole)	AZQ

Grid	Grid Opening	Structures		Identification	Structure type	Length (µm)	Width (µm)	Fibre Type	Comments
		primary	total						
1	G1	1	1	AZQ	F	2.3	0.3	Actinolite	
		2	2	ADX	F	4.3	0.4	Actinolite	
		3	3	ADX	F	1.5	0.2	Actinolite	
		4	4	ADX	F	4.4	0.5	Actinolite	
		5	5	ADX	F	2.5	0.6	Actinolite	
	G3	6	6	AZQ	F	1.3	0.15	Actinolite	
		7	7	ADX	F	1.9	0.3	Actinolite	
	G5	8	8	ADX	F	2.3	0.2	Actinolite	
		9	9	ADX	F	1.8	0.2	Actinolite	
		10	10	ADX	F	2.2	0.2	Actinolite	
		11	11	ADX	F	1.55	0.15	Actinolite	
	G7	12	12	AZQ	F	2.5	0.45	Actinolite	
		13	13	ADX	F	1.6	0.3	Actinolite	
		14	14	ADX	F	3.5	0.3	Actinolite	
		15	15	ADX	F	4.8	0.5	Actinolite	
		16	16	ADX	F	1.4	0.2	Actinolite	
		17	17	ADX	F	3.1	0.3	Actinolite	
	G9	18	18	ADX	F	1.6	0.2	Actinolite	
		19	19	ADX	F	1.5	0.22	Actinolite	
		20	20	ADX	F	1.8	0.3	Actinolite	
		21	21	ADX	F	2.4	0.3	Actinolite	
		22	22	AZQ	F	1.6	0.3	Actinolite	
		23	23	ADX	F	2.2	0.4	Actinolite	
		24	24	ADX	F	0.7	0.1	Actinolite	
		25	25	ADX	F	2.4	0.3	Actinolite	
2	G1	26	26	ADX	F	2.6	0.3	Actinolite	
		27	27	ADX	F	4.3	0.5	Actinolite	
		28	28	ADX	F	3.7	0.3	Actinolite	
		29	29	ADX	F	2.2	0.4	Actinolite	
		30	30	ADX	F	2.6	0.3	Actinolite	
		31	31	ADX	F	2.8	0.5	Actinolite	
		32	32	AZQ	F	4.9	0.1	Actinolite	
		33	33	ADX	F	2.6	0.5	Actinolite	
		34	34	ADX	F	1.5	0.2	Actinolite	
		35	35	ADX	F	2.5	0.3	Actinolite	
	G3	36	36	ADX	F	2.4	0.3	Actinolite	
		37	37	ADX	F	2.4	0.25	Actinolite	
		38	38	ADX	F	4.3	0.5	Actinolite	
		39	39	ADX	F	13.6	2.1	Actinolite	
		40	40	ADX	F	1.4	0.2	Actinolite	
		41	41	ADX	F	4.8	0.4	Actinolite	
	G5	42	42	ADX	F	2.25	0.4	Actinolite	
		43	43	AZQ	F	2.4	0.15	Actinolite	

TEM asbestos structure count					
Report Number:	LLH901997-24				
Sample Number:	3158847.HTA2		Sample Weight:	0.0001	
Sample Description:	25 - RH #33		Filter area (mm2):	1220	
			Magnification:	10/20 KX	
			Grid opening dimension (mm2)	0.00878032	
Preparation date:	06/12/20	By:	RAM		
Analysis date:	07/30/20	By:	JM	Level of analysis (chrysotile)	NA
Computer entry date:	08/5/20	By:	MMK	Level of analysis (amphibole)	AZQ

Grid	Grid Opening	Structures		Identification	Structure type	Length (µm)	Width (µm)	Fibre Type	Comments
		primary	total						
		44	44	ADX	F	3.6	0.5	Actinolite	
		45	45	ADX	F	5.6	0.5	Actinolite	
	G7	46	46	ADX	F	2.6	0.35	Actinolite	
		47	47	ADX	F	1.8	0.3	Actinolite	
		48	48	ADX	F	3.2	0.3	Actinolite	
		49	49	ADX	F	1.5	0.2	Actinolite	
		50	50	ADX	F	1.2	0.2	Actinolite	
	G9	51	51	ADX	F	1.5	0.25	Actinolite	
		52	52	ADX	F	2.6	0.4	Actinolite	
		53	53	ADX	F	2.5	0.22	Actinolite	
		54	54	ADX	F	4.8	0.1	Actinolite	
1	B1	55	55	AZQ	F	5.7	0.3	Actinolite	
	B3								
	B5	56	56	AZQ	F	7.2	0.45	Actinolite	
	B7	57	57	ADX	F	9.5	0.8	Actinolite	
		58	58	ADX	F	14.3	1.6	Actinolite	
	B9								
	D9	59	59	ADX	F	9.9	0.1	Actinolite	
	D7								
	D5	60	60	ADX	F	5.6	0.5	Actinolite	
	D3	61	61	ADX	F	7.9	0.98	Actinolite	
	D1								
	F1								
	F3								
	F7								
2	B1	62	62	ADX	F	8.4	1.2	Actinolite	
	B3								
	B5	63	63	ADX	F	14.7	0.5	Actinolite	
	B7	64	64	ADX	F	6.9	1.3	Actinolite	
	B9								
	D9								
	D7								
	D5								
	D3								
	D1								
	F1								
	F3								

RJ Lee Group Petrographic Analysis Report

August 14, 2020

August 14, 2020

Mr. Andrew J. Gutshall
Hanson Aggregates Pennsylvania LLC
7660 Imperial Way
Allentown, PA 18195-1040

RE: Petrographic analysis
RJ Lee Group Project Number: LLH901997

Mr. Gutshall,

Per your request, I have performed a general petrographic analysis of the three (3) core samples identified as DB-1, DB-1-Duplicate, and DB-5. Earthres collected the diabase core sample, DB-5, on June 4, 2020. The sample was obtained from core boring CB-3 from the interval 130.9' – 131.6. The sample was cut from the core and split using a diamond saw. Sample was shipped under chain of custody via FedEx to R.J. Lee. Petrographic analyses for DB-1 and DB-1 duplicate were completed on samples previously sent to R.J. Lee as discussed within the November 15, 2019 Qualitative Geologic Survey Report.

Methods

Approximately 40 mm x 25 mm x 10 mm blocks of each core were removed using a diamond saw. Petrographic polished thin sections of approximately 30 µm thick were prepared from the blocks. The thin sections were examined by polarized light microscopy (PLM) to document the minerals present, the relative proportions of those minerals, and the microtexture of the rocks. Additionally, the thin sections were examined by scanning electron microscopy with energy dispersive x-ray spectroscopy (SEM/EDS) to determine the chemical composition of the minerals to aid in the identification and characterization. A portion of each core was also ground by hand in a mortar and pestle, and the resulting powder was analyzed by powder x-ray diffraction (XRD) to identify the crystalline phases present in the samples.

Summary

DB-5 (3164233) – Figures 1-6. Unaltered coarse-grained gabbro/diabase, porphyritic texture with larger anhedral to subhedral ortho- and clinopyroxene surrounded by smaller grains of euhedral plagioclase. Approximate proportions of each mineral are as follows: 50% plagioclase feldspar, 30% clinopyroxene, 15% orthopyroxene, 4% granophyric alkali feldspar, 1% oxides, 1% chlorite, <1% monoclinic amphibole. There are minor indications of secondary mineralization, but no veins were observed in this section. Exsolution lamellae were commonly observed in clinopyroxene. Inclusions of orthopyroxene in clinopyroxene were observed by SEM/EDS (Figure 4). Amphibole presence is indicated in XRD, and minor to trace amounts of calcic amphibole (tremolitic-actinolitic) observed in thin section as interstitial replacement of the clinopyroxene (Figure 6). The calcic amphibole is observed in 50-100 µm wide pockets with gradational overgrowths of clinopyroxene to calcic amphibole and chlorite. The lack of sodium in the calcic amphibole observed in DB-5 contrasts with the trace amounts of sodium observed in amphibole occurring in veins or as alteration product of clinopyroxene in DB-1.

DB-1 (3158807) – Figures 7-14. Moderately altered coarse-grained gabbro/diabase with several, sub-parallel 1-5 mm veins. Porphyritic texture with larger anhedral to subhedral ortho- and clinopyroxene surrounded by smaller grains of euhedral plagioclase. Composed of approx. 50% plagioclase feldspar (approx. 20% altered to sericite), 30% clinopyroxene, 10% orthopyroxene, 5% monoclinic amphibole, 2% granophyric alkali feldspar, 2% opaque minerals including ilmenite (SEM/EDS), <1% chlorite and titanite. Pseudomorphic replacement of pyroxenes to amphibole and chlorite is evident throughout. Moderate green-brown and dark green-light green pleochroism was observed in amphiboles and chlorite (respectively). Minor replacement of orthopyroxene by talc (Figure 13) was observed. Several veins are present throughout mostly infilled with prismatic to fibrous amphibole with some veins showing lateral displacement. Amphibole presence is indicated in XRD, and minor amounts of calcic amphibole (tremolitic-actinolitic) observed in thin section both in veins as well as alteration product of clinopyroxene. Amphibole morphology replacing the pyroxene is variable from prismatic to radiating to fibrous. When ground, 0.1% asbestiform amphibole was observed during the PLM point count. The composition of calcic amphibole is variable primarily in the amount of Na, Al, and Fe. Trace amounts of sodium are observed in these amphiboles differing from the unaltered DB-5 composition.

DB-1 Duplicate (3161701) – Figures 15-19. Moderately altered coarse-grained gabbro/diabase. Porphyritic texture with larger anhedral to subhedral ortho and clinopyroxene surrounded by smaller grains of euhedral plagioclase. Composed of approx. 50% plagioclase feldspar (approx. 20% altered to sericite), 30% clinopyroxene, 10% orthopyroxene, 5% monoclinic amphibole, 2% granophyric alkali feldspar, 2% opaque minerals including ilmenite (SEM/EDS), <1% chlorite and titanite. Veining is less evident in this sample. Pseudomorphic replacement of pyroxenes to amphibole and chlorite is evident throughout. Morphology of amphibole is variable, ranging from prismatic grains with pronounced cleavage planes to highly fibrous. When ground, 0.6% asbestiform amphibole by PLM point count. The composition of amphibole is calcic (tremolitic-actinolitic) and variable in the amounts of Na, Al, and Fe. Amphibole observed in Figure 18 is compositionally more consistent with calcic amphibole observed in sample DB-5. Amphibole observed in Figure 19 is compositionally more consistent with calcic amphibole observed in veins and alteration of clinopyroxene observed in sample DB-1. This may indicate two stages of amphibole formation: one primary crystallization, one hydrothermal alteration.

If you have any questions related to this report, please feel free to contact me directly.

Sincerely,



Bryan R. Bandli, PhD
Principal Investigator
bbandli@rjlg.com
724 387-1802



Figure 1. As received photograph of sample DB-5 (3164233).

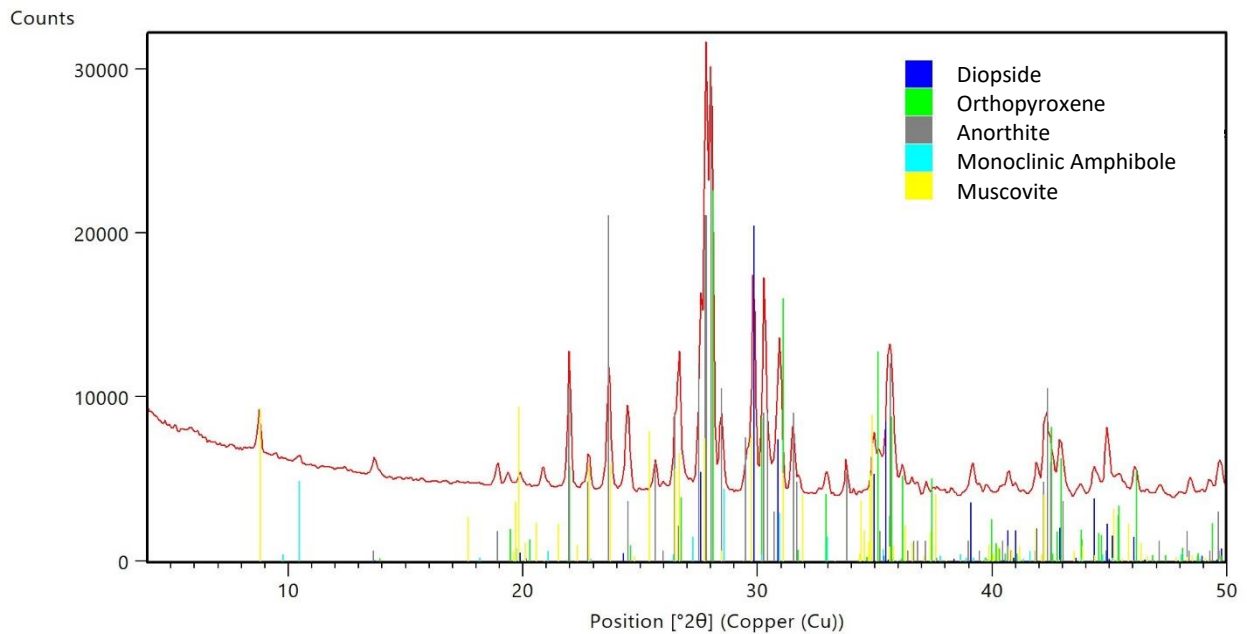


Figure 2. Sample DB-5 (3164233). Powder XRD diffraction pattern showing presence of clinopyroxene (diopside), orthopyroxene, plagioclase feldspar (anorthite), amphibole, and muscovite.

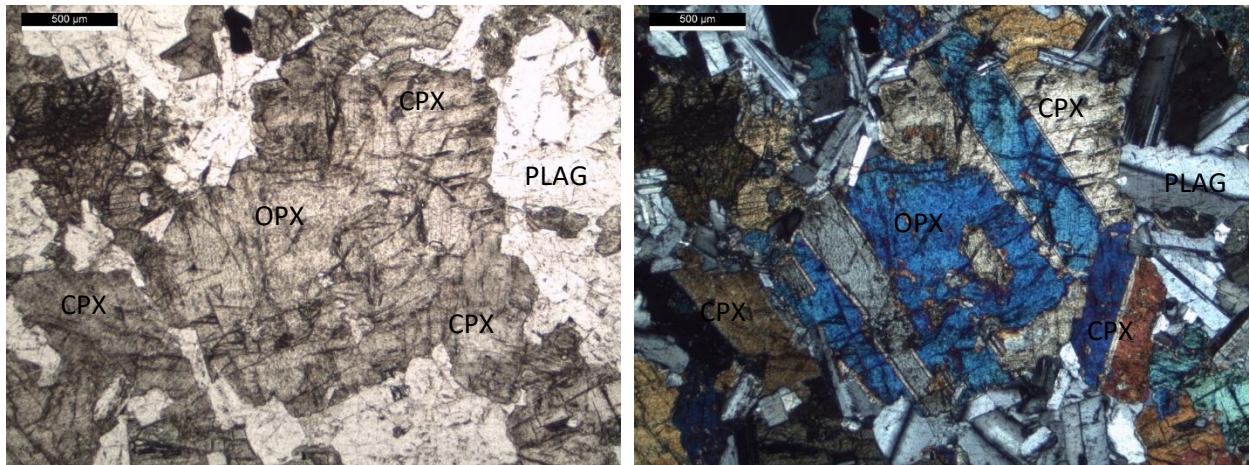


Figure 3. Sample DB-5 (3164233). Plane (top) and cross polarized (bottom) light micrographs of orthopyroxene (opx), clinopyroxene (cpx) and plagioclase feldspar (plag). Little to no alteration of the pyroxene minerals is observed in this sample.

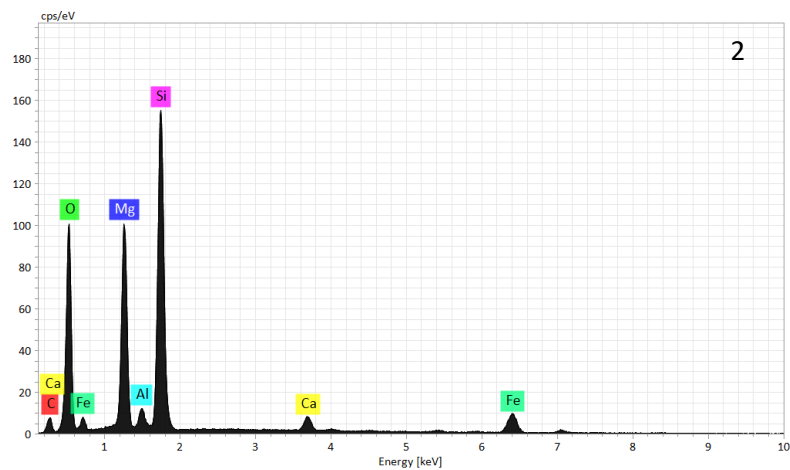
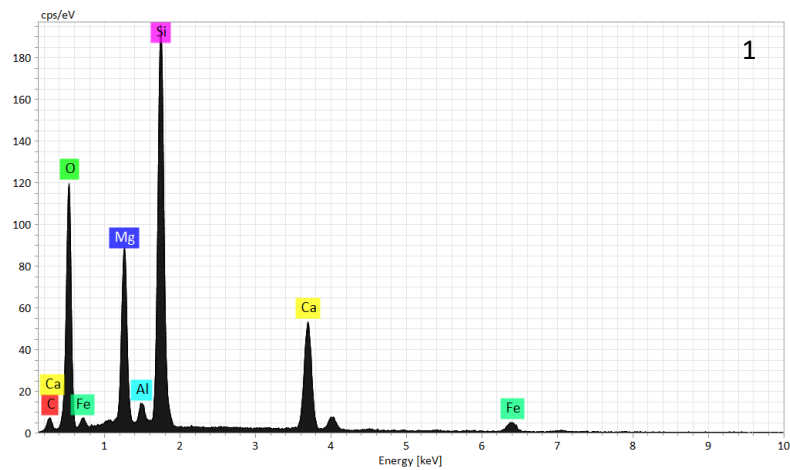
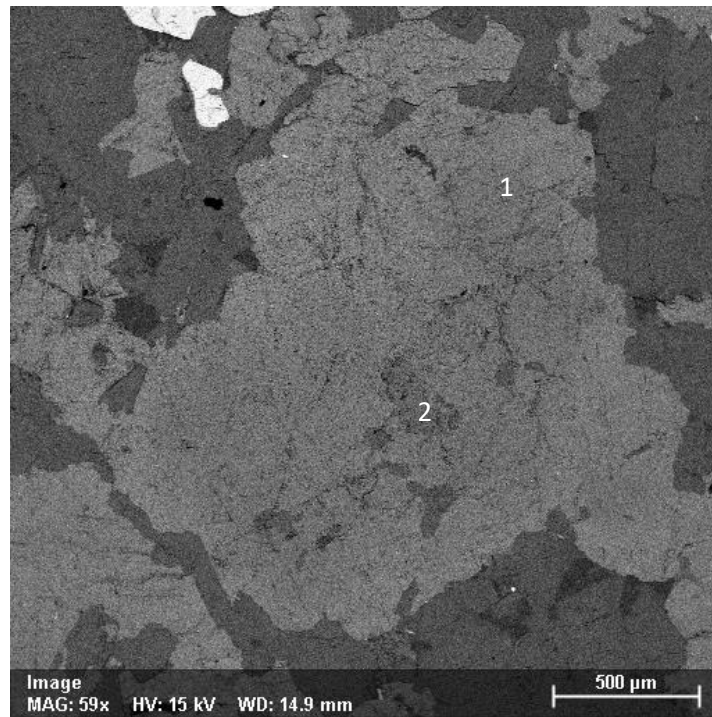


Figure 4. Sample DB-5 (3164233). Backscattered electron micrograph and EDS spectra from same area as Figure 2. Clinopyroxene (1) and orthopyroxene (2).

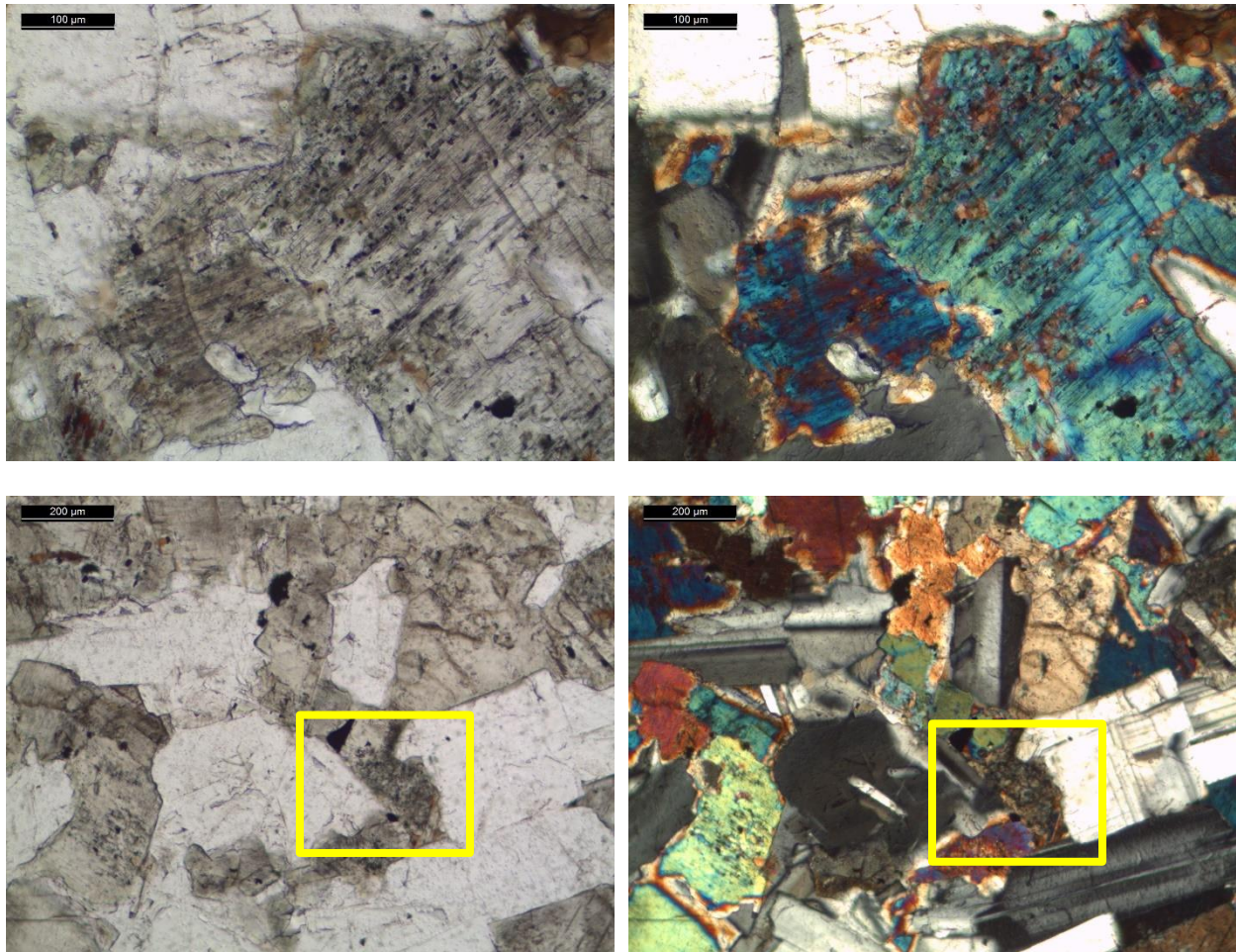
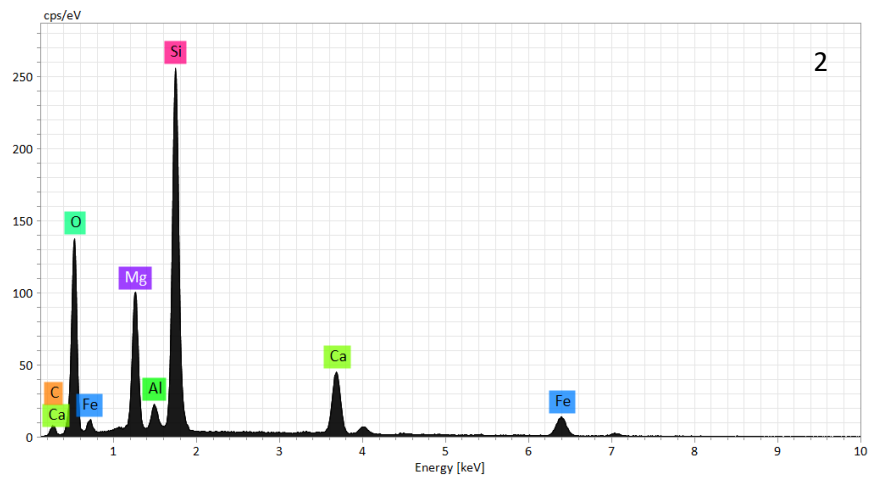
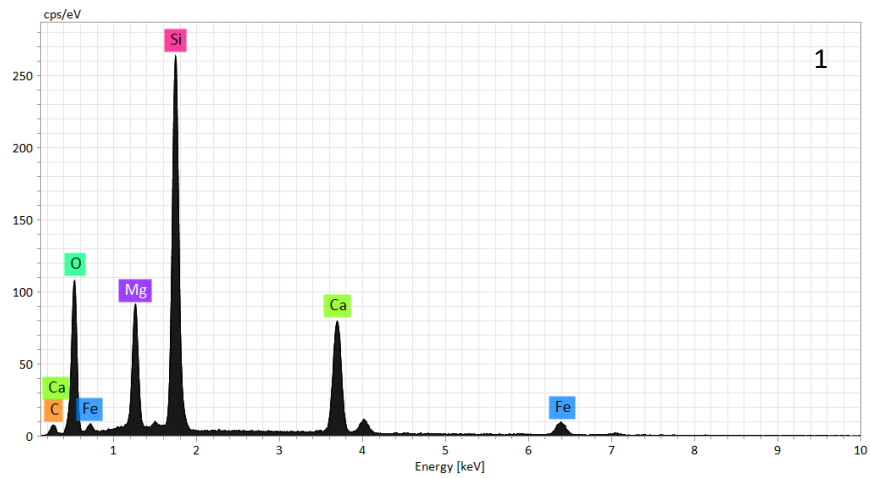
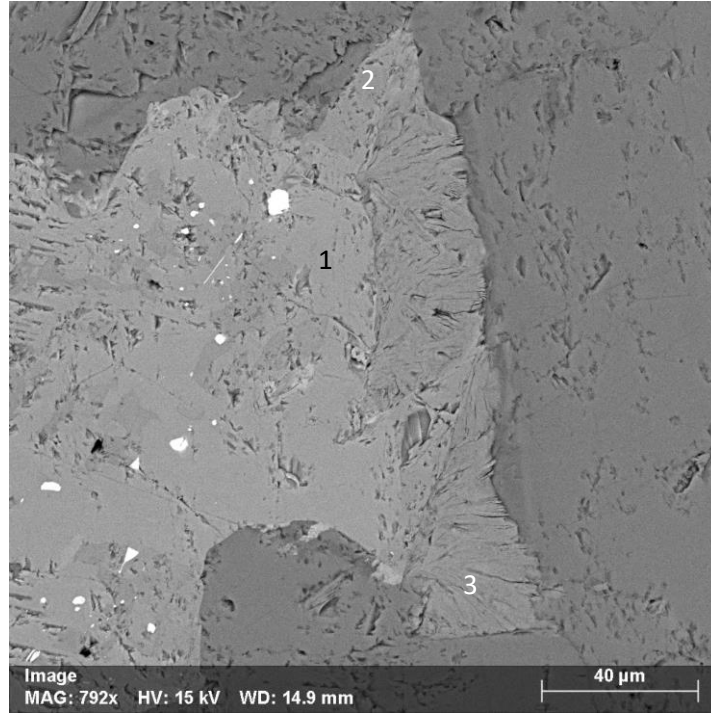


Figure 5. Sample DB-5 (3164233). Plane and cross polarized light micrographs of representative clinopyroxene grains. Upper photos of unaltered pyroxene, lower photos show minor interstitial replacement of pyroxene to amphibole (box).



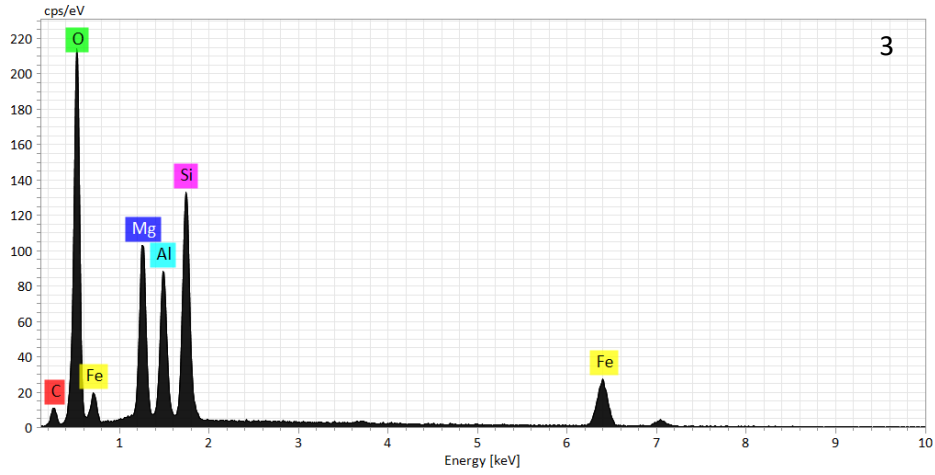


Figure 6. Sample DB-5 (3164233). Backscattered electron micrograph and EDS spectra of clinopyroxene (1), amphibole (2) and chlorite (3).



Figure 7. As received photograph of sample DB-1 (3158807).

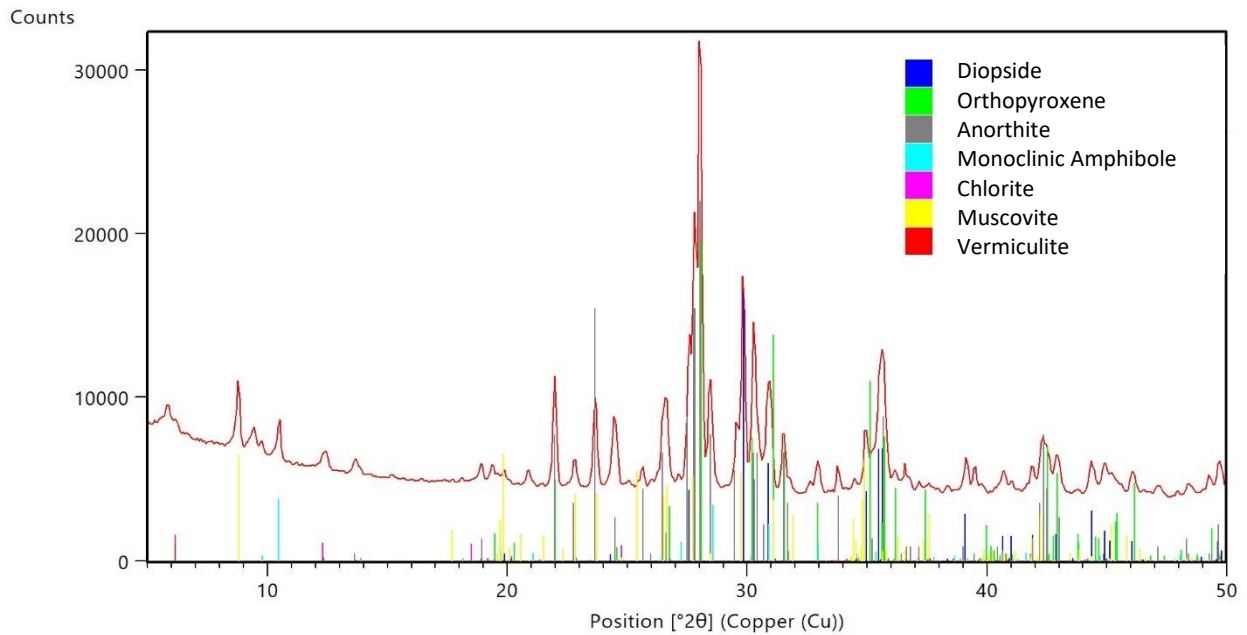


Figure 8. Sample DB-1 (3158807). Powder XRD diffraction pattern showing presence of clinopyroxene (diopside), orthopyroxene, plagioclase feldspar (anorthite), amphibole, chlorite, muscovite, and vermiculite.

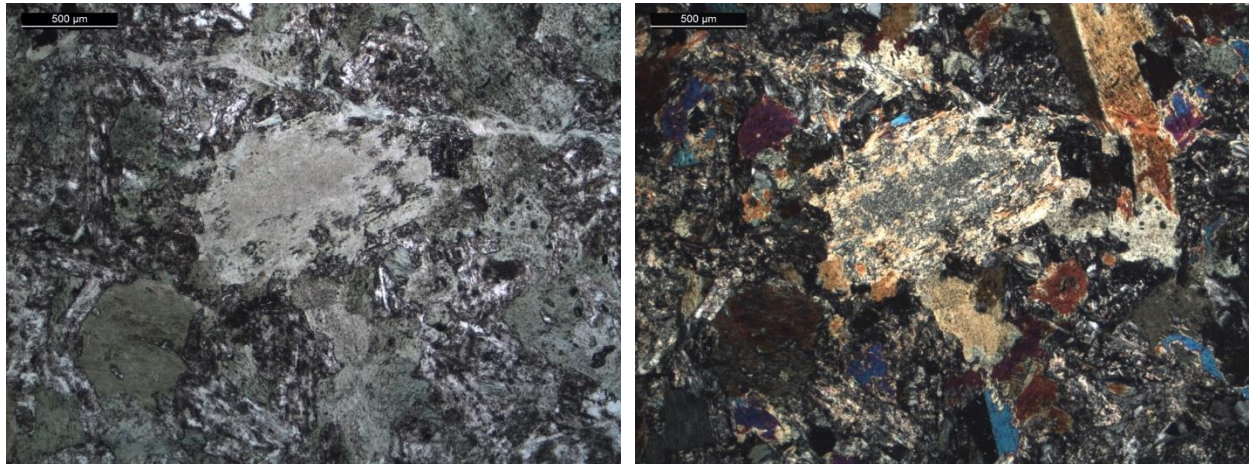


Figure 9. Sample DB-1 (3158807). Plane (left) and cross (right) polarized light micrographs showing general coarse grained texture of gabbro with alteration and filled vein.

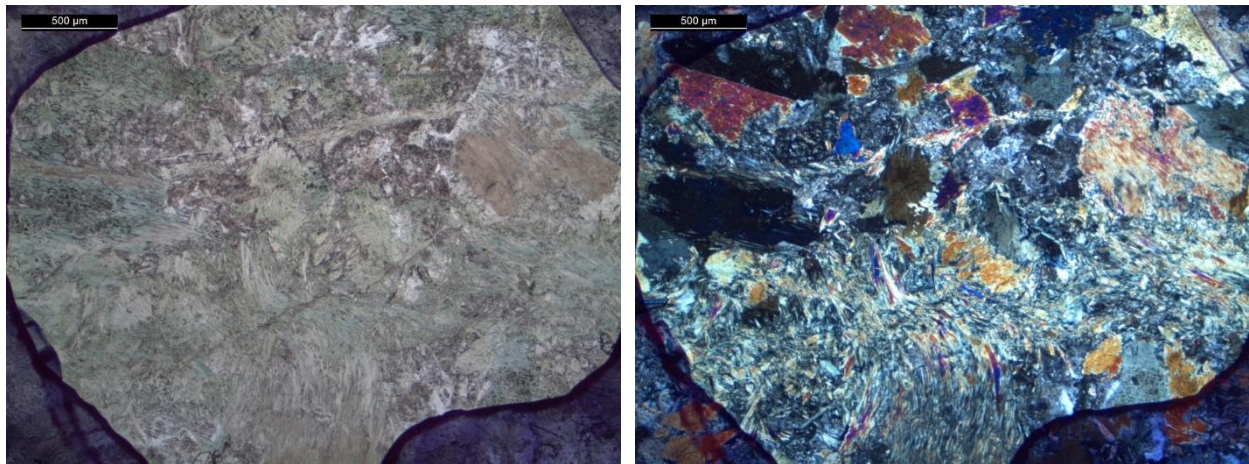


Figure 10. Sample DB-1 (3158807). Plane (left) and cross (right) polarized light micrographs showing veins cross cutting sample from lower left to upper right of image. Vein mineralization comprised predominantly of calcic amphibole. Calcic amphibole pseudomorphs after pyroxene also present.

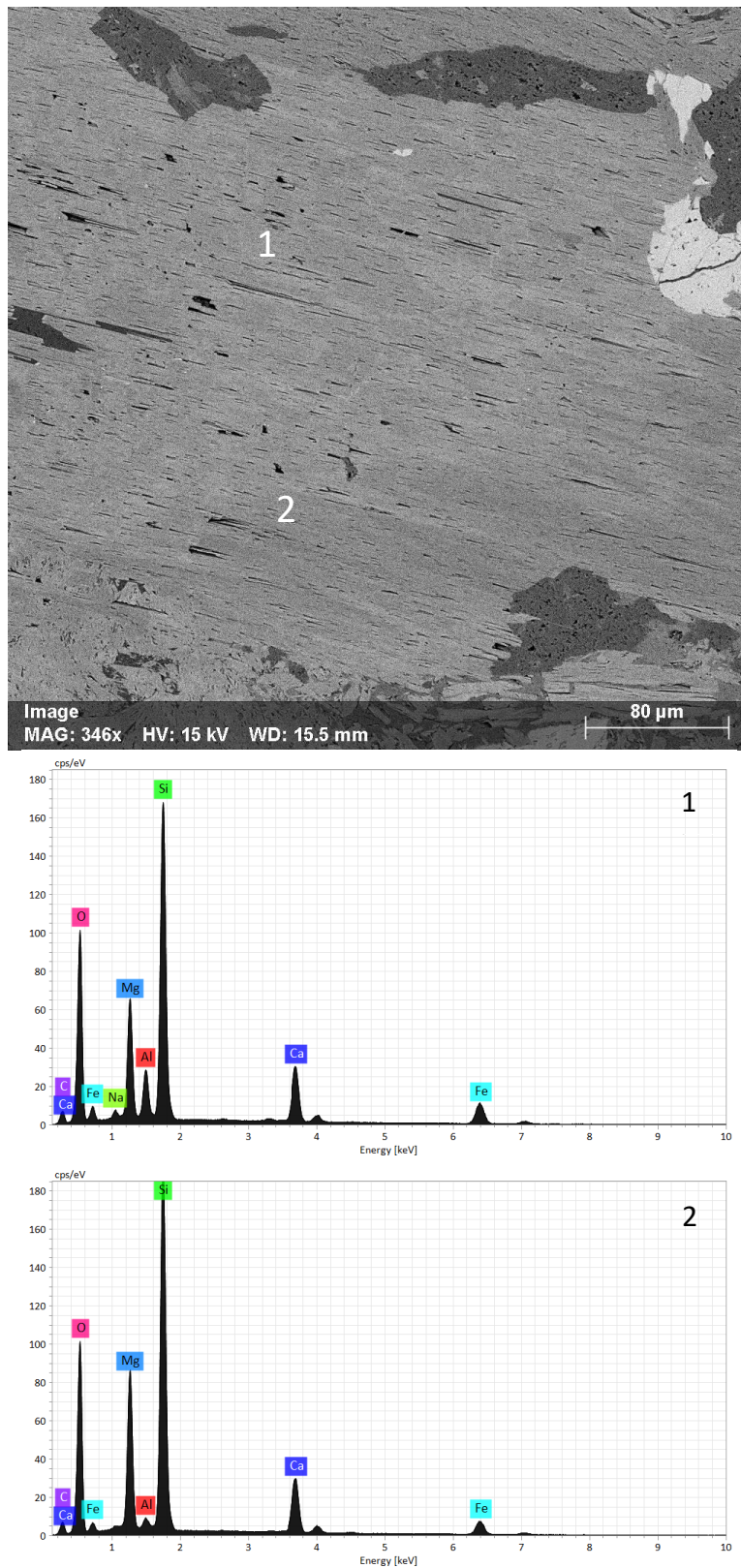
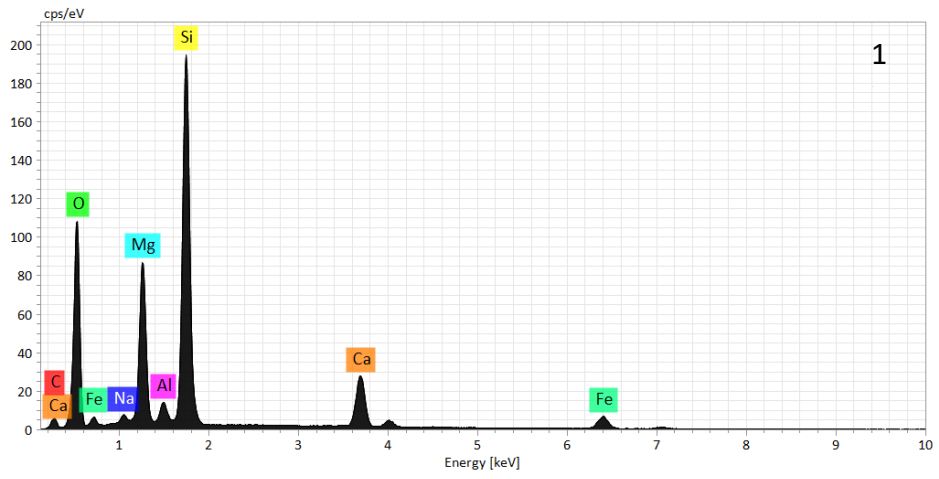
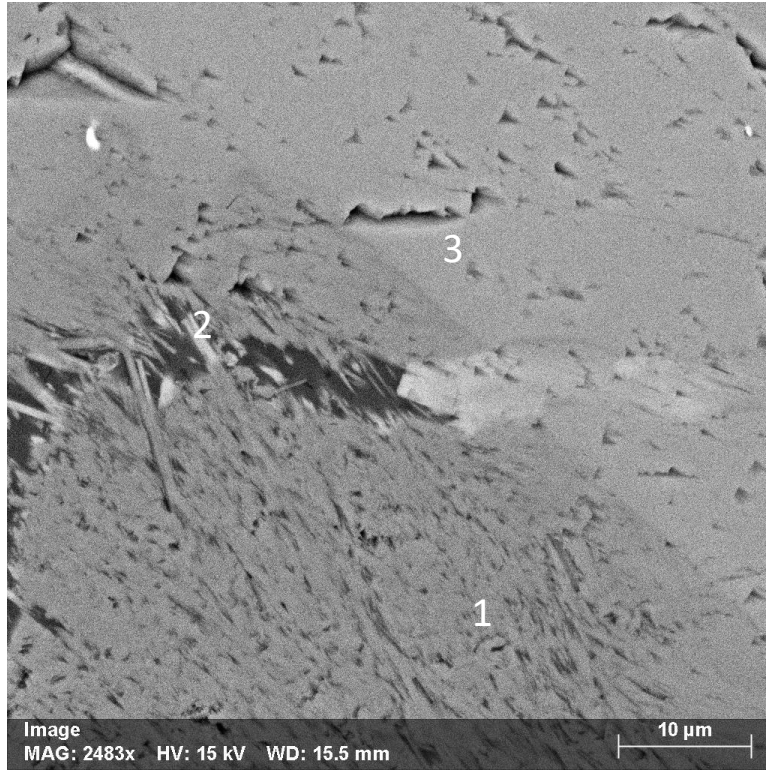


Figure 11. Sample DB-1 (3158807). Backscatter electron micrograph (top) and EDS spectra showing variable calcic amphibole composition as prismatic pseudomorphic replacement of pyroxene.



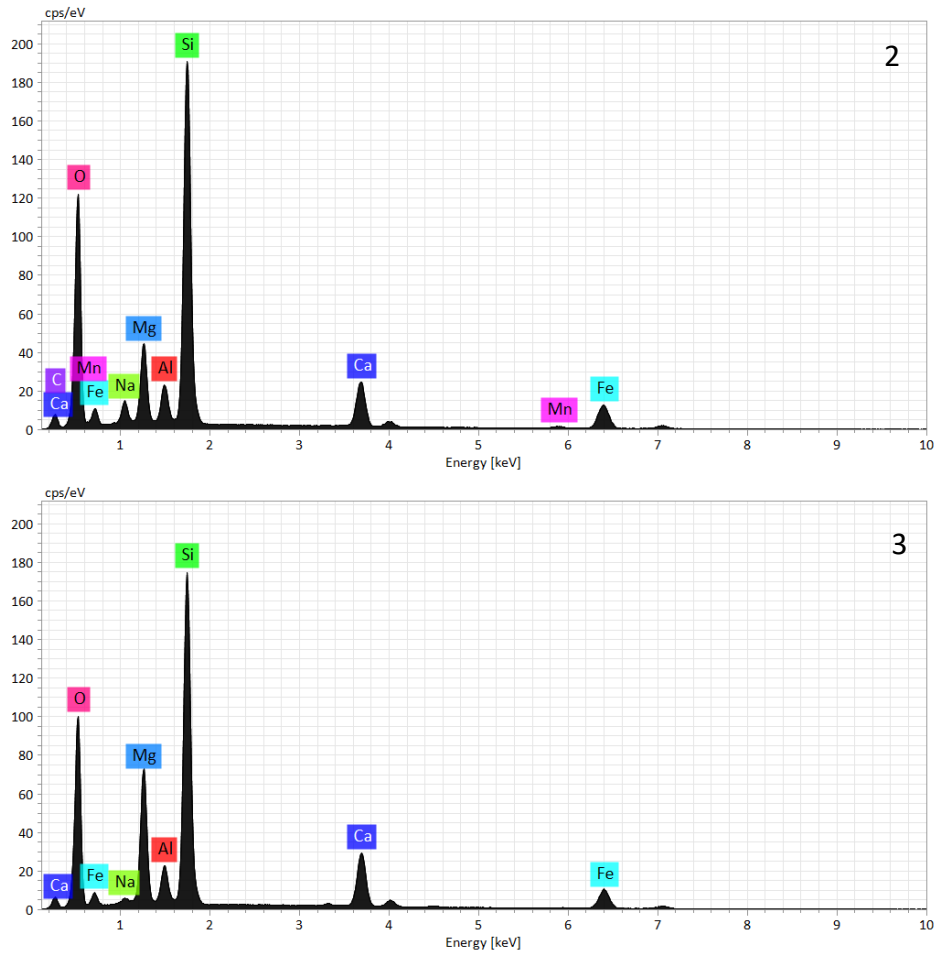


Figure 12. Sample DB-1 (3158807). Backscatter electron micrograph (top) and EDS spectra showing variable fibrous (1 & 2) to prismatic (3) morphology and variable composition of calcic amphibole in vein (2) adjacent to calcic amphibole in altered pyroxene (1 & 3).

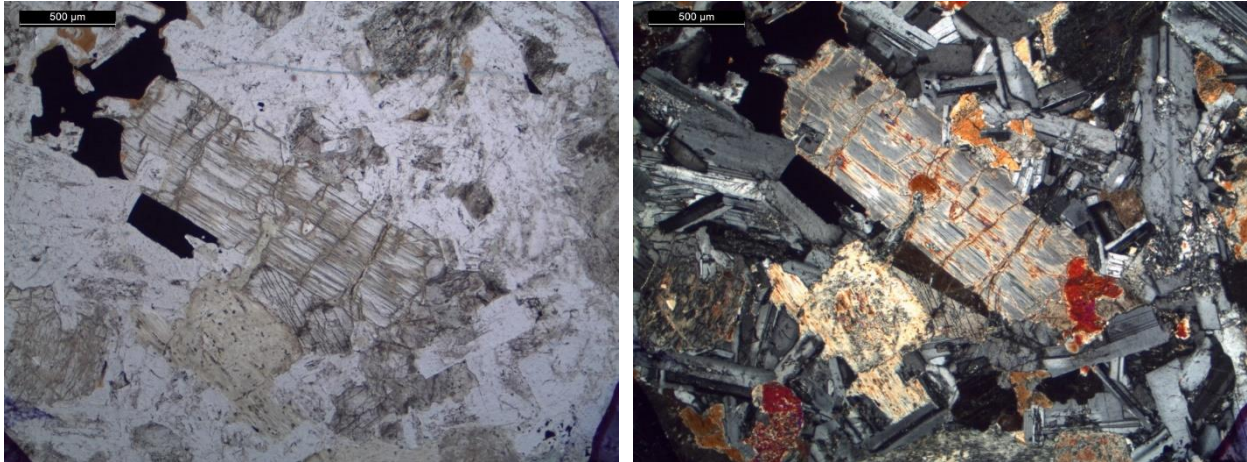
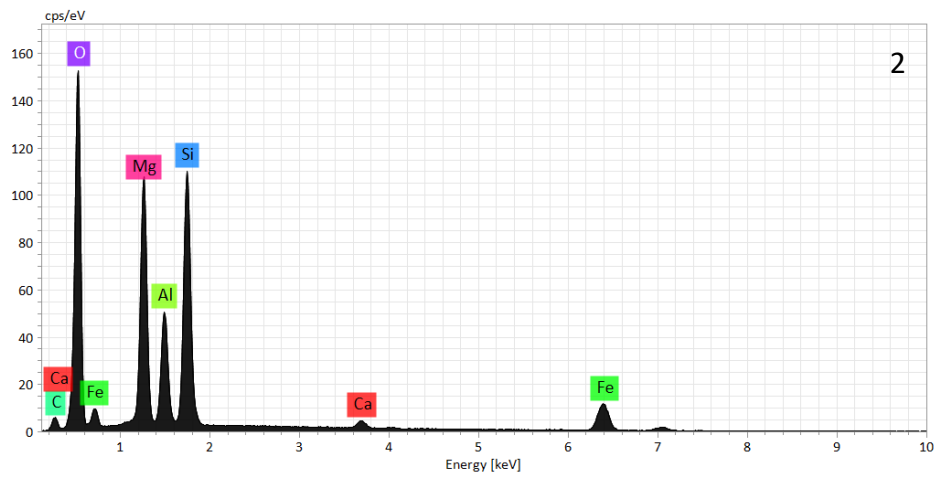
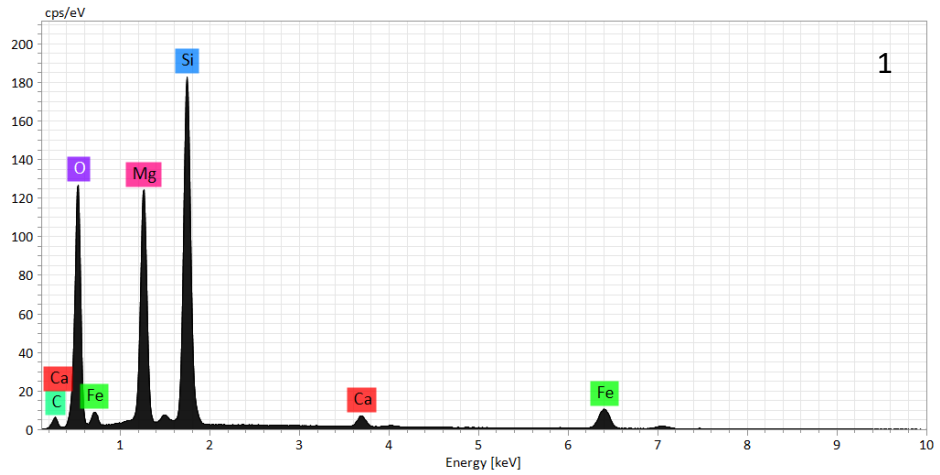
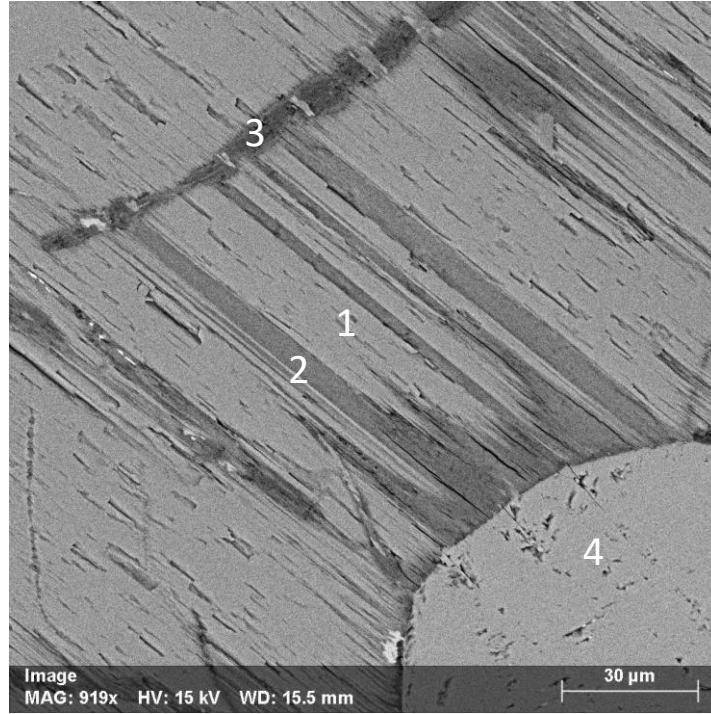


Figure 13. Sample DB-1 (3158807). plane polarized light (left) and cross polarized (right) light micrographs of partially altered orthopyroxene.



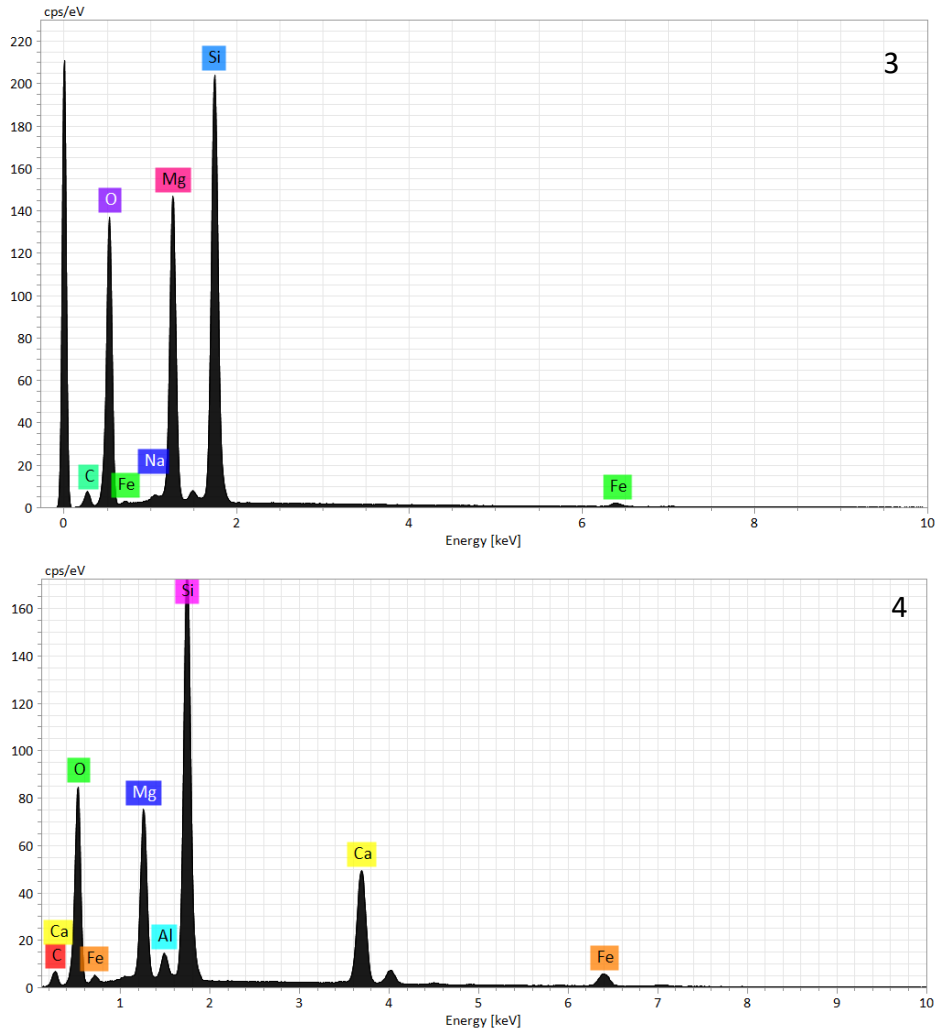


Figure 14. Sample DB-1 (3158807). Backscattered electron micrograph of orthopyroxene (1) alteration to chlorite (2) and talc (3) with clinopyroxene (4) shown in Figure 13.



Figure 15. As received photograph of sample DB-1 Duplicate (3161701).

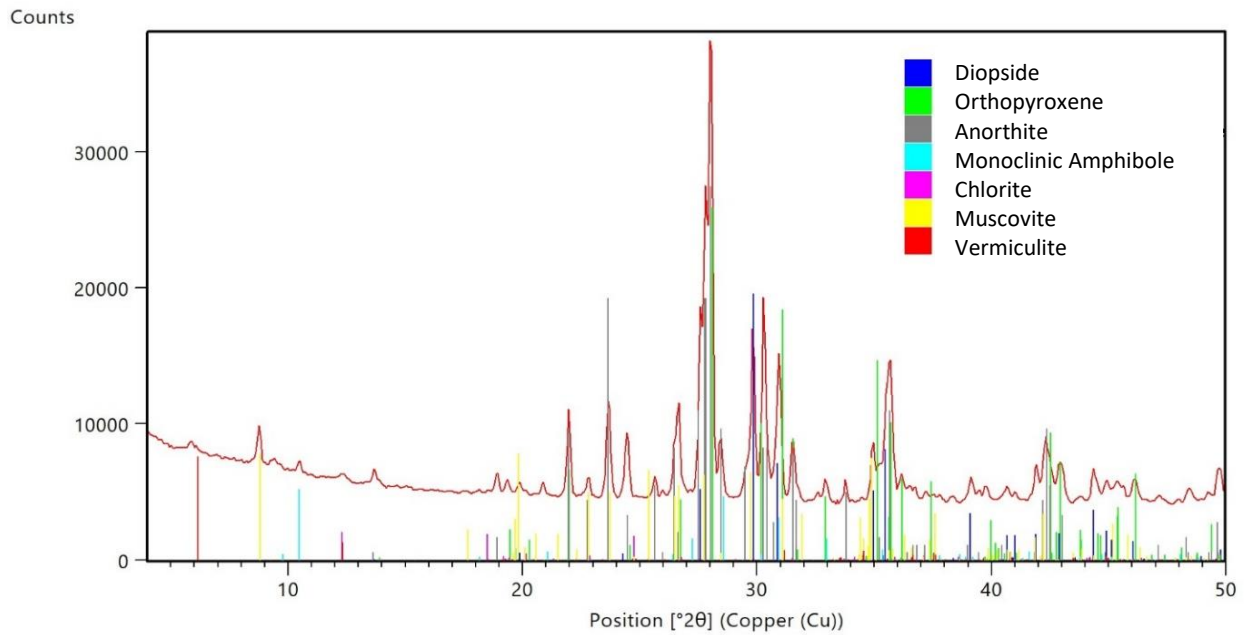


Figure 16. Sample DB-1 Duplicate (3161701). Powder XRD diffraction pattern showing presence of clinopyroxene (diopside), orthopyroxene, plagioclase feldspar (anorthite), amphibole, chlorite, muscovite, and vermiculite.

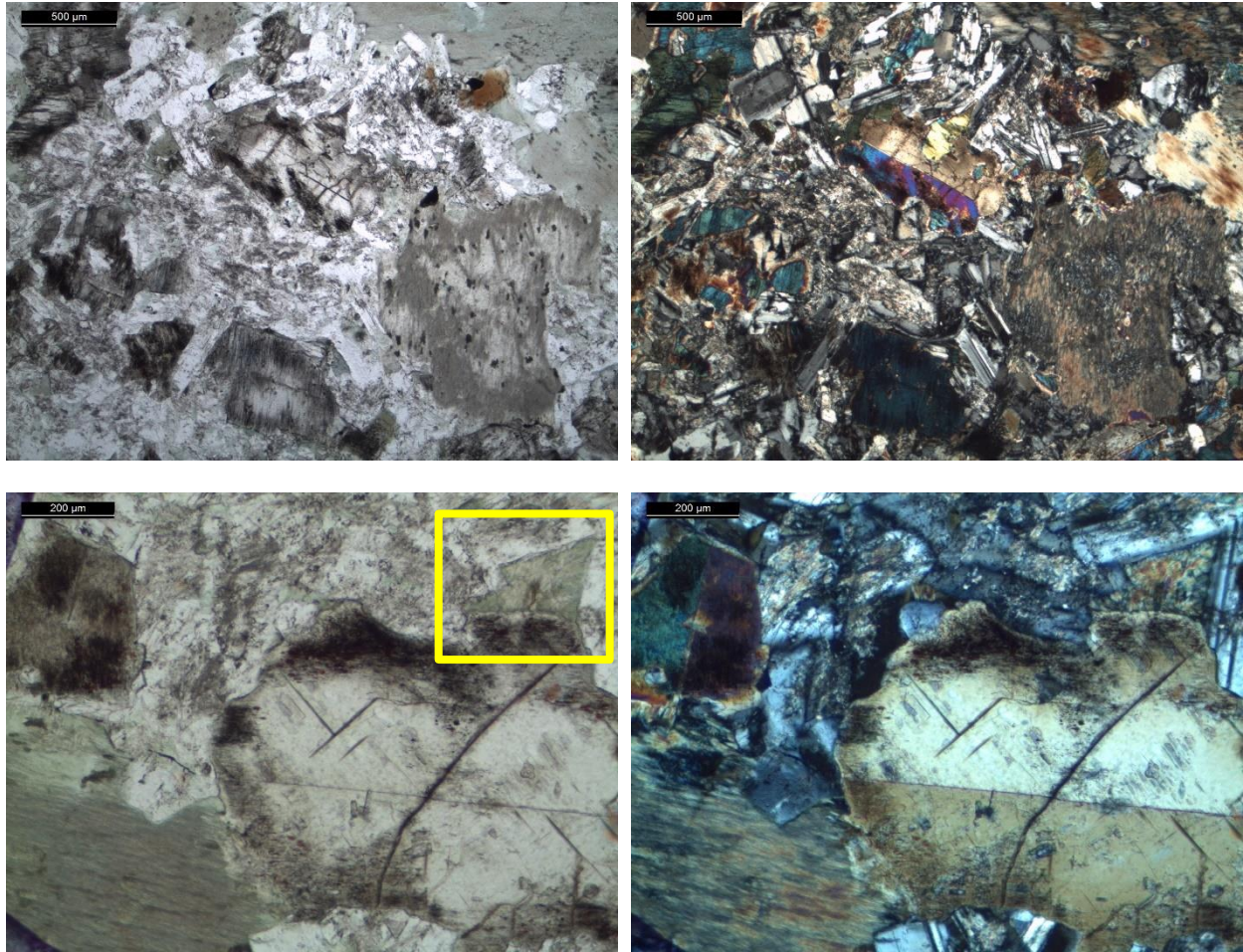


Figure 17. Sample DB-1 Duplicate (3161701). Plane and cross polarized light micrographs of showing overall texture and alteration of clinopyroxene to amphibole (box and Figure 18) and chlorite and alteration of plagioclase feldspars to sericite.

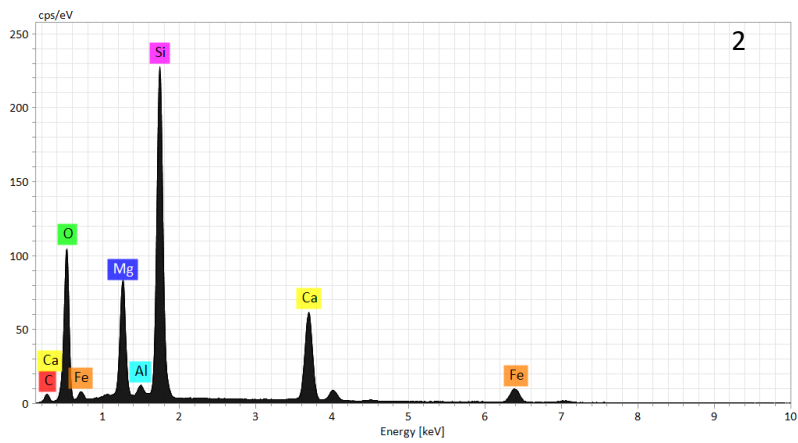
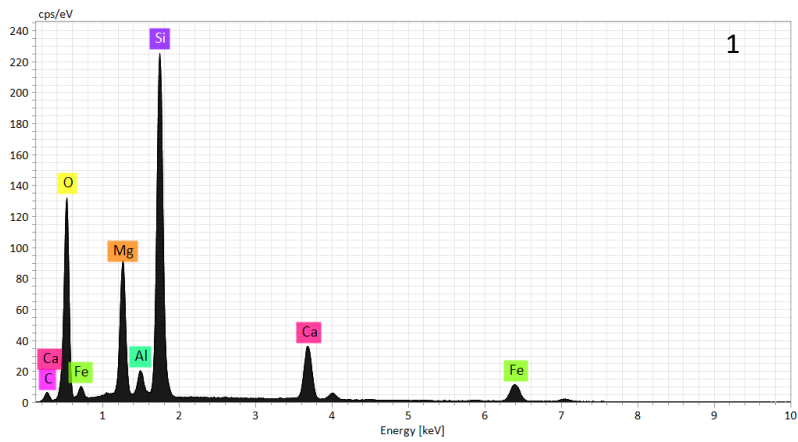
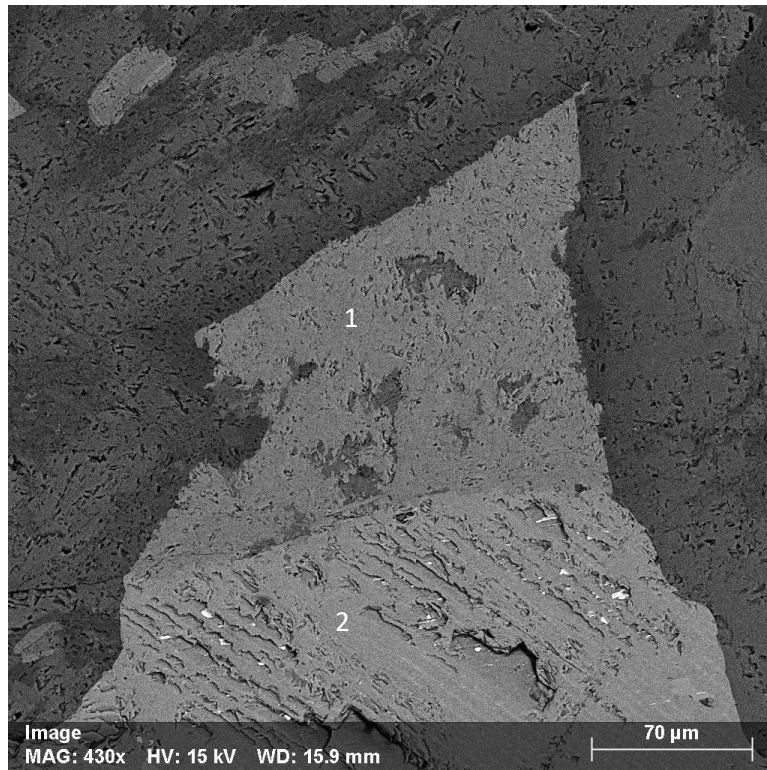


Figure 18. DB-1 Duplicate (3161701). Backscattered electron micrograph and EDS spectra of calcic amphibole (1) and clinopyroxene (2) highlighted in Figure 17.

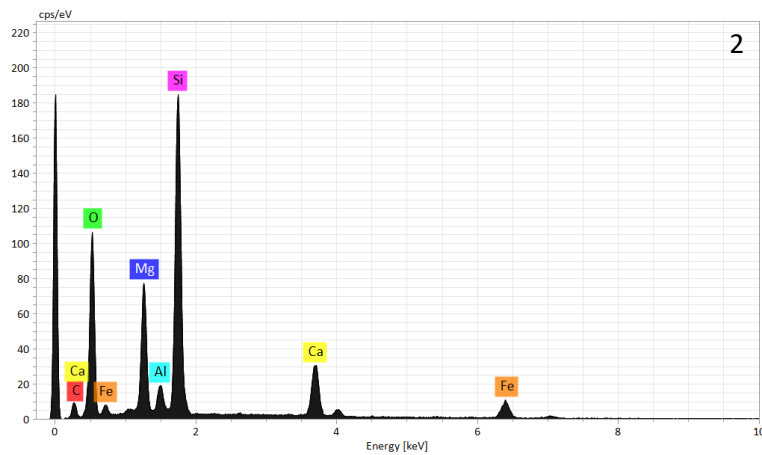
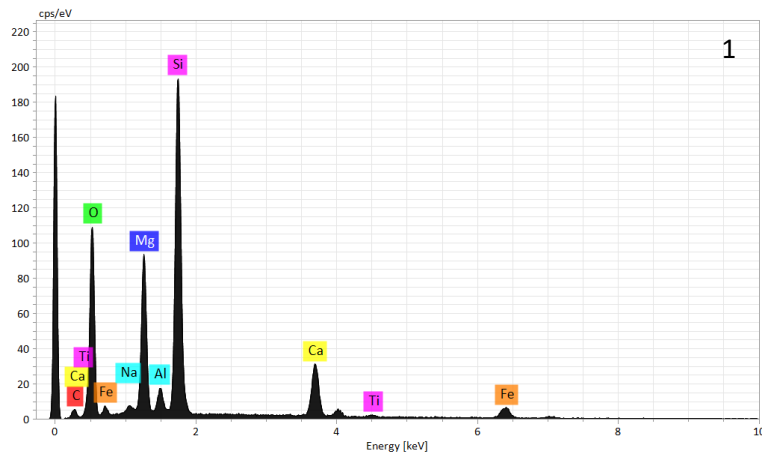
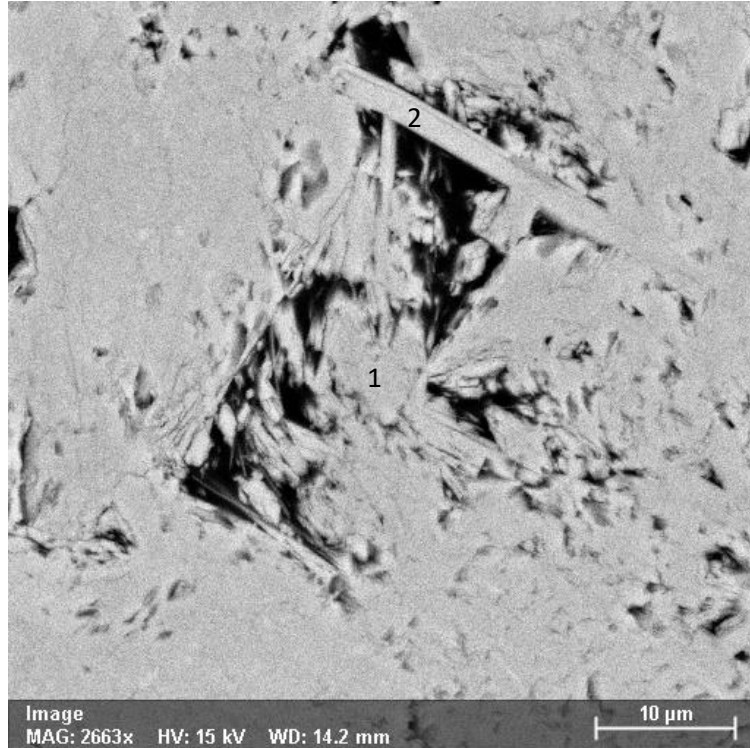


Figure 19. DB-1 Duplicate (3161701). Backscattered electron micrograph and EDS spectra of fibrous calcic amphibole (1 & 2).