

# ASBESTOS AND LEAD SURVEY REPORT

# HAPPY HOLLOW RECREATION CENTER 4800 WAYNE AVENUE., PHILADELPHIA, PA 19144

Prepared For:

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> May 3, 2024 BEA#1093723K

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#### **SECTION 1.0**

#### INTRODUCTION

A hazardous materials survey was conducted at the Happy Hollow Recreation Center located at 4800 Wayne Avenue., Philadelphia, PA. The survey was conducted from April 17, 2024, by Steve Woronicak, and Alyssa Cartagena, all AHERA-certified building inspectors from Batta Environmental Associates, Inc. (BEA).

The purpose of the inspection was to identify and report on environmentally hazardous materials within the Happy Hollow Recreation Center property located at the above referenced site that may be impacted by the upcoming planned renovations to the interior of the structure. The inspection included surveying for Asbestos-Containing Material (ACM) and Lead-Based Paint (LBP).

This LBP and ACM report has been prepared by BEA in a manner consistent with that level of care and skill ordinarily exercised by members of the profession currently practicing under similar conditions. No other warranty, expressed or implied is made. The intent of this survey report is to assist the building owner or management in locating environmentally hazardous materials in support of future demolition activities. This document is not intended to be utilized as a proposal or a project design document for the remediation of hazardous materials discovered during this investigation.

BEA's interpretations and recommendations are based upon the results of sample collection and analyses in compliance with environmental regulations, quality control and assurance standards, and the scope of work. The results, conclusions, and recommendations contained in this report pertain to conditions observed at the time of the survey.



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#### SECTION 2.0

#### ASBESTOS SURVEY

#### 2.1 ASBESTOS SURVEY METHODS

The site was inspected for suspect ACM, unless otherwise noted. Each observed suspect material was assigned a homogenous area number, described, and measured. Each observed suspect material was sampled or assumed to be asbestos. Samples of suspect ACM were collected using procedures established by the United States (US) Environmental Protection Agency (EPA) Code of Federal Regulations (CFR) Title 40 Part 763 Subpart E, Asbestos-Containing Materials in Schools.

At the beginning of the survey, the inspector(s) conducted a walkthrough of the areas identifying and sampling different types of probable ACM and categorizing these materials.

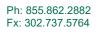
Each probable ACM was grouped into homogenous areas, which group a particular material by similar characteristics such as appearance, texture, manufacturer, etc. All similar materials within a particular building or process area were in their own homogenous area groups.

ACM's were also further divided into three categories:

- *"Surfacing Materials"* material that is sprayed-on, trowelled on, or otherwise applied to surfaces, such as acoustical plaster on ceilings and fireproofing materials on structural members, or other materials on surfaces for acoustical, fireproofing or other purposes.
- "Thermal System Insulation" material applied to pipes, fittings, boilers, breeching, tanks, ducts, or other structural components to prevent heat loss or gain, or water condensation, or for other purposes.
- "*Miscellaneous ACM* " interior building material on structural components, structural members or fixtures, such as floor and ceiling tiles, and does not include surfacing material or thermal insulation.

ACM's inventoried in this survey are classified as either friable or non-friable. Friable ACM can be crumbled or reduced to powder by hand pressure whereas non-friable ACM cannot.

The EPA asbestos NESHAP regulation further classifies nonfriable ACM into two categories.



- Category I. Nonfriable ACM includes any asbestos-containing packing, gasket, resilient floor covering or asphalt roofing product.
- Category II. Nonfriable ACM includes any nonfriable ACM other than Category I nonfriable ACM.

Samples were collected in air tight, sealed bags for transportation to Batta Environmental, LLC for analysis. During sample collection procedures, good safety and hygiene practices were implemented to prevent asbestos airborne contamination from being introduced into the building's atmosphere.

All field records pertaining to samples collected during this inspection can be found in Appendix B of this report and each sample is listed as follows:

- 1. Field Number
- 2. Lab Number
- 3. AHERA Classification
- 4. Sample Location
- 5. Material Sampled
- 6. Lab Results

All lab data pertaining to the samples analyzed can be found in Appendix A of this report and each sample is listed as follows:

- 1. Date Analyzed
- 2. Field Sample Number
- 3. Lab Sample Number
- 4. Sample Location
- 5. Asbestos Content
- 6. Non-Asbestos Content

Samples were analyzed using an A,B,C... positive stop protocol for each set of homogenous materials (*materials with similar characteristics*). If a sample in the homogenous set tested **positive** for **asbestos** (*greater than 1% by composition*) then the other samples in that set were not analyzed. If asbestos was not detected in a sample then all samples from that homogenous set were analyzed for asbestos until one tested positive.



#### 2.2 LABORATORY ANALYSIS METHODS

All samples collected during the survey were analyzed at Batta Laboratories, LLC, an A.I.H.A., NVLAP certified laboratory. Upon arrival at the laboratory, the samples were logged-in and submitted for analysis.

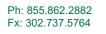
PLM samples were analyzed utilizing the Environmental Protection Agency's test method: "Methods for the determination of Asbestos in Bulk Building Materials" (EPA 600/R-93/116, July 1993) and the McCrone Research Institute's "The Asbestos Particle Atlas" as the principal analytical references. Additional treatment and tests may be required to accurately define composition (i.e. ashing, extraction, acetone treatment, and TEM).

The PLM method utilizes a light microscope equipped with polarizing filters. The identification of asbestos fiber bundles is determined by the visual properties displayed when the sample is treated with various dispersion staining liquids. Identification is substantiated by the actual structure of the fiber and the effect of polarized light on the fiber, all of which is viewed by a trained technician. The limit of detection of asbestos by PLM is about one percent (1%) by area. Samples containing lower levels of asbestos are not reliably detectable by this technique.

Analysis was performed by using the bulk sample for visual observation and slide preparation(s) for microscopic examination and identification. The samples analyzed for asbestos (chrysotile, amosite, crocidolite, anthophyllite, and actinolite/tremolite), silicon carbide whiskers, carbon fibers, fibrous non-asbestos constituents (cellulose, synthetic, etc.), and non-fibrous constituents. Using a stereoscope, the microscopist visually estimated relative amounts of each constituent by determining the volume of each constituent in proportion to the total volume of the sample.

The asbestos NESHAP recommends that asbestos bulk samples that are less than 10% by PLM are to be analyzed by point counting for friable ACM and mandates point counting when PLM results for friable ACM are in trace amounts (< 1%) in order to declare that the material is non-asbestos containing. The point-count procedure mandated by NESHAP is in the EPA "Interim" Bulk Method. For each layer to be point counted, eight mounts are made by dispersing 8 pinches of sample in suitable fluid. Each of the mounts is examined under the polarizing light microscope using an eyepiece reticule that superimposes a grid of points over the field of view. Fifty non-empty points are examined for each mount, yielding 400 points – some of which would be identified as asbestos and the rest as non-asbestos material.

A total of 34 bulk samples were collected for PLM analysis during this survey.



#### 2.3 LIMITATIONS

This survey was limited in scope to a Hazardous Materials Inspection Survey at the Happy Hollow Recreation Center located at 4800 Wayne Avenue, in Philadelphia, PA 19136 as defined by contract documents and the project scope of work.

This asbestos and lead survey report has been prepared by BEA in a manner consistent with that level of care and skill ordinarily exercised by members of the profession currently practicing under similar conditions. No other warranty, expressed or implied is made. The intent of this survey report is to assist the building owner or management in locating hazardous materials. This document is not intended to be utilized as a proposal or a project design document for the remediation of hazardous materials discovered during this investigation.

BEA's interpretations and recommendations are based upon the results of sample collection and analyses in compliance with environmental regulations, quality control and assurance standards, and the scope of work. The results, conclusions, and recommendations contained in this report pertain to conditions observed at the time of the survey.

#### 2.4 ASBESTOS ANALYSIS RESULTS

A total of 34 samples were collected and 37 samples were analyzed via PLM. The original laboratory report / certificates of analysis are found in Appendix A and survey field records are found in Appendix B.

The following table summarizes the samples collected. Materials are quantified that have been found to contain asbestos greater than 1% (NAD = No Asbestos Detected, RACM = Regulated Asbestos Containing Material, CAT I NF = Category I Non-friable, CAT II NF = Category II Non-friable).

	Happy Hollow Recreation Center												
Material	Location	% ACM	Category	Condition	Quantity								
Gym													
Grey 12"x12" Floor	- 1 <sup>st</sup> Floor	NAD	N/A	N/A	N/A								
Tile	- 2 <sup>nd</sup> Floor												
Mastic with Grey	- 1 <sup>st</sup> Floor	NAD	N/A	N/A	N/A								
12"X12" Floor Tile	- 2 <sup>nd</sup> Floor												
Blue 12"x12" Floor	- 1 <sup>st</sup> Floor	NAD	N/A	N/A	N/A								
Tile (Bottom)	- 2 <sup>nd</sup> Floor												
Mastic with Blue	- 1 <sup>st</sup> Floor	NAD	N/A	N/A	N/A								
12"X12" Floor Tile	- 2 <sup>nd</sup> Floor												

	Ha	ppy Hollow Red	creation Ce	enter		
Material		Location	% ACM	Category	Condition	Quantity
Baseboard	-	1 <sup>st</sup> Floor	NAD	N/A	N/A	N/A
Baseboard Mastic	-	1 <sup>st</sup> Floor	NAD	N/A	N/A	N/A
Stair Tread Material	-	Stairs	NAD	N/A	N/A	N/A
Stair Tread Mastic	-	Stairs	2%	CAT1NF	Good	45 SF
			Chrysotile			
Transite Panel	-	2 <sup>nd</sup> Floor Water	15%	CAT2NF	Good	30 SF
		Heater Room	Chrysotile			
		Boxing Gym				
Grey 12"x12" Floor	-	Hall Outside	NAD	N/A	N/A	N/A
Tile		Office				
	-	Outside Men's				
		Room				
Mastic with Grey	-	Hall Outside	NAD	N/A	N/A	N/A
12"X12" Floor Tile		Office				
	-	Outside Men's				
		Room				
Baseboard Mastic	-	Hall Outside	NAD	N/A	N/A	N/A
		Office				
	-	Outside Men's				
		Room				
Rubber Floor Mastic	-	Main Area	NAD	N/A	N/A	N/A
Flue Packing	-	Basement	NAD	N/A	N/A	N/A
Window Glazing	-	Basketball Gym	NAD	N/A	N/A	N/A
		Exterior				
Smooth Plaster Walls	-	Main Boxing	NAD	N/A	N/A	N/A
		Gym				



#### **SECTION 3.0**

#### LEAD PAINT EVALUATION

#### 3.1 LEAD BASED PAINT EVALUATION AND XRF RESULTS

**BATTA ENVIRONMENTAL ASSOCIATES, INC.** performed an evaluation for Lead-Based Paint (LBP) for Happy Hollow Recreation Center located at 4800 Wayne Avenue., Philadelphia, PA. The inspection was performed using a Heuresis Model Pb200i Portable X-Ray fluorescence (XRF) Analyzer by Steve Woronicak.

Various painted surfaces were analyzed using the hand-held XRF Analyzer and a visual assessment of the identified lead-based surfaces was performed. Identified lead-based paint components were visually assessed for paint condition as per the United States Department of Housing & Urban Development (HUD) guidelines.

A total of 145 XRF readings were collected on the interior areas of the subject property. The following items describe the existing paint and condition identified throughout the property during the time of inspection. Lead-Based Paint is highlighted below.

	HAPPY HOLLOW RECREATION CENTER # Location Wall Color Component Substrate Condition Pb Pb +/-												
#	Location	Condition	Pb	Pb +/-									
	Basketball Gym												
1		А	White	Frame	Metal	Intact	0.1	-					
2		А	Blue	Door	Wood	Intact	0.1	-					
3		В	White	Wall	Brick	Intact	0.5	-					
4	Cirle Deet Deem	D	White	Wall	Brick	Intact	0.4	-					
5	Girls Rest Room	D	White	Stall Door	Metal	Intact	0.3	-					
6		С	White	Windowsill	Metal	Intact	0.2	-					
7		Ceiling	White	Ceiling	Wood	Intact	0.1	-					
8		С	Blue	Conduit	Metal	Damaged	0.2	-					
9		D	Black	Wall	Brick	Intact	0.4	-					
10	Pour Postroom	А	White	Wall	Brick	Intact	0.1	-					
11	Boys Restroom	С	White	Sink	Ceramic	Intact	28.4	+					
12		С	White	Urinal	Ceramic	Intact	0.4	-					
13	Main Gym		Blue	Divider	Wood	Intact	0.3	-					

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<u></u>	adelphia, PA	H	APPY HOLL	OW RECREATION	N CENTER			
#	Location	Wall	Color	Component	Substrate	Condition	Pb	Pb +/-
14	Gym Front		Red	Beam	Metal	Intact	1.8	+
15	Exterior		Red	Drain Pipe	Metal	Intact	0.1	-
16	Walkway		Red	Thin Beam	Metal	Intact	0.1	-
17	Gym Front		Blue	Wall	Brick	Intact	0.2	-
18	Exterior		Red	AC Grate	Metal	Intact	0	-
19			Green	Light Pole	Metal	Intact	0.2	-
20			Blue	Swing Rail	Metal	Damaged	0.1	-
21			Blue	Swing Base	Metal	Intact	0	-
22	Playground		Gray Blue	Whale	Metal	Intact	0.9	+
23			Yellow	Rail	Metal	Intact	0.2	-
24			Red	Struct Floor	Metal	Intact	0.2	-
25			Blue	Struct Floor	Metal	Intact	0	-
			Re	creation Center				
26		А	White	Wall	Brick	Intact	0.2	-
27		В	White	Wall	Brick	Intact	0.1	-
28		С	White	Wall	Brick	Intact	0.1	-
29		D	White	Wall	Brick	Intact	0.2	-
30		А	Red	Door	Wood	Intact	0.3	-
31		А	Red	Doorframe	Wood	Intact	27.7	+
32		А	Red	Windowsill	Wood	Intact	0.2	-
33	Main Room	А	Red	Windowframe	Wood	Intact	0.5	-
34		А	White	Windowframe	Wood	Intact	0.1	-
35		А	Red	Column	Wood	Intact	0.8	+
36		А	Blue	Post	Metal	Intact	0	-
37		С	Red	Windowsill	Wood	Intact	0.8	+
38		С	Red	Windowframe	Wood	Intact	0.4	-
39		С	White	Window	Wood	Intact	0	-
40		С	Red	Column	Wood	Intact	0.4	-
41		В	Tan	Door	Wood	Intact	0.1	-

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<u>· · · · · · · · · · · · · · · · · · · </u>	adelphia, PA	HA	APPY HOLL	OW RECREATION	N CENTER			
#	Location	Wall	Color	Component	Substrate	Condition	Pb	Pb +/-
42		В	Tan	Doorframe	Wood	Intact	0.6	-
43		А	Tan	Door	Wood	Intact	0.2	-
44		А	Tan	Doorframe	Metal	Intact	0.3	-
45	Closet	A	Light Tan	Wall	Brick	Intact	0.2	-
46	0.0000	В	Light Tan	Wall	Brick	Intact	0.2	-
47		D	Light Tan	Wall	Brick	Intact	0.3	-
48		А	Blue	Wall	Brick	Intact	0.3	-
49		А	Blue	Doorframe	Wood	Intact	0.1	-
50	Computer Lab	А	Tan	Door	Metal	Damaged	0.1	-
51	Computer Lab	В	White	Wall	Brick	Intact	0.1	-
52		D	Gray	Wall	Brick	Damaged	0.2	-
53		А	White	Wall	Brick	Intact	0.1	-
54		А	White	Wall	Brick	Intact	0	-
55		С	White	Wall	Brick	Intact	0.3	-
56		С	Blue	Window	Wood	Damaged	7.4	+
57	Mamania	С	White	Window	Wood	Intact	0.1	-
58	Women's Bathroom	Divider	Blue	Divider	Metal	Intact	0.2	-
59		D	Black	Radiator Cover	Metal	Intact	1.5	+
60		А	Blue	Door	Metal	Intact	0	-
61		А	Tan	Doorframe	Metal	Intact	0.3	-
62		С	White	Wall	Brick	Intact	0.2	-
63	Women's Hallway	С	White	Roof Drain Pipe	Metal	Intact	12.8	+
64	ranway	D	Tan	Windowframe	Metal	Intact	0	-
65		D	Red	Frame	Metal	Intact	0.4	-
66	Men's	А	White	Wall	Brick	Intact	0.1	-
67	Bathroom	С	White	Wall	Brick	Intact	0.1	-

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	adelphia, PA	H	APPY HOLL	OW RECREATIO	N CENTER			_
#	Location	Wall	Color	Component	Substrate	Condition	Pb	Pb +/-
68		С	Silver	Radiator	Metal	Intact	0.1	-
69		А	White	Wall	CMU	Intact	0.2	-
70		А	Tan	Frame	Metal	Intact	0.4	-
71		А	Tan	Door	Metal	Intact	0	-
72	Storage	D	White	Wall	CMU	Intact	0.2	-
73		D	White	Windowsill	Wood	Intact	5.2	+
74		Floor	Gray	Floor	Concrete	Intact	1.7	+
75		Ceiling	White	Ceiling	Metal	Intact	8.2	+
76		D	White	Wall	Brick	Intact	0	-
77	Men's Hall	D	Red	Frame	Metal	Intact	0.4	-
78		В	White	Wall	Brick	Intact	0.1	-
79		D	White	Wall	CMU	Intact	0.2	-
80		А	White	Wall	CMU	Intact	0.2	-
81	Office	С	White	Wall	Brick	Intact	0.3	-
82	Office	А	Blue	Frame	Metal	Intact	0.2	-
83		А	Tan	Door	Metal	Intact	0.2	-
84		А	Yellow	Wall	CMU	Intact	0.2	-
85	Office	С	Yellow	Wall	Brick	Intact	0.2	-
86	Restroom	А	Yellow	Drain Pipe	Metal	Intact	0.1	-
87		С	White	Radiator Cover	Metal	Intact	1	+
88			Tan	Column	Concrete	Intact	0.6	-
89			Tan	Column	Concrete	Intact	0.1	-
90	Front Exterior		Tan	Windowsill	Wood	Intact	0.2	-
91			Tan	Frame	Wood	Intact	37	+
92			Black	Railing	Metal	Intact	0.3	-
93	Rear Exterior		Tan	Windowsill	Wood	Intact	1.7	+
94			Tan	Frame	Wood	Intact	1.3	+
95	Bacomont	D	White	Wall	Brick	Damaged	0.6	-
96	Basement	Ceiling	Gray	Ceiling	Concrete	Damaged	0.3	-

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	adelphia, PA	H	APPY HOLL	OW RECREATIO	N CENTER			
#	Location	Wall	Color	Component	Substrate	Condition	Pb	Pb +/-
97		В	White	Wall	Concrete	Damaged	0.7	+
98		С	White	Wall	Brick	Intact	0.1	-
99		А	Blue	Wall	Brick	Intact	0.3	-
100		А	Blue	Door	Wood	Intact	0.1	-
101		А	Blue	Doorframe	Wood	Intact	0.2	-
102		А	Blue	Grate	Metal	Intact	0.3	-
103	Gym Main	В	White	Wall	Brick	Intact	0.3	-
104	Gynn Mann	В	Blue	Beam	Metal	Intact	1.9	+
105		D	Blue	Beam	Metal	Intact	1.4	+
106		С	Blue	Wall	Brick	Intact	0.3	-
107		С	Blue	Door	Metal	Intact	0.3	-
108		С	Blue	Doorframe	Metal	Intact	0.3	-
109	Stairwell	А	White	Wall	Brick	Intact	0.4	-
110	Stall well	А	Black	Rail	Metal	Intact	0	-
111		А	Tan	Doorframe	Metal	Intact	0	-
112	Second Floor	А	Blue	Door	Metal	Intact	0.1	-
113		С	White	Wall	Drywall	Intact	0.1	-
114		В	White	Wall	Brick	Intact	0.1	-
115		А	Brown	Frame	Wood	Intact	0	-
116	Old Shower	А	Blue	Wall	Ceramic	Intact	2.1	+
117		Floor	White	Floor	Ceramic	Intact	0.4	-
118	Water Heater Room	D	White	Cabinet	Metal	Intact	0.3	-
119	Second Floor Room	А	White	Conduit	Metal	Intact	0.6	-
120		А	White	Wall	Drywall	Intact	0.2	-
121		А	Tan	Doorframe	Metal	Intact	0.4	-
122	Kitchen	А	Tan	Door	Metal	Intact	0.1	-
123		В	Tan	Radiator Cover	Metal	Intact	1	+

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	HAPPY HOLLOW RECREATION CENTER												
#	Location	Wall	Color	Component	Substrate	Condition	Pb	Pb +/-					
124		В	White	Wall	Drywall	Intact	0.1	-					
125		С	White	Wall	Drywall	Intact	0.2	-					
126		D	White	Wall	Drywall	Intact	0.2	-					
127		С	Black	Fume Hood	Metal	Intact	0	-					
128		Ceiling	White	Ceiling	Drywall	Intact	0.1	-					
129	Kitchen Storage	А	White	Wall	Ceramic	Intact	0.1	-					
130	Hall Outside Kitchen	Ceiling	White	Ceiling	Metal	Intact	2.7	+					
				Gym									
131		А	Blue	Wall	Brick	Intact	0.3	-					
132		А	Blue	Doorframe	Metal	Intact	0.3	-					
133	Entrance	А	Black	Door	Metal	Intact	0.3	-					
134		А	Blue	Shelf	Metal	Intact	0.1	-					
135		D	Blue	Wall	Brick	Intact	0.4	-					
136		А	White	Wall	Brick	Intact	0.5	-					
137	Entry Office	В	Blue	Windowframe	Metal	Intact	0	-					
138		D	Blue	Windowframe	Wood	Intact	0.2	-					
				Exterior									
139	Playground		Green	Bench	Wood	Damaged	0.3	-					
140			Red	Wall	Brick	Intact	0.3	-					
141	Gym Back Exterior		Red	Door	Metal	Intact	0.1	-					
142			Red	DoorFrame	Metal	Intact	0.2	-					
143	Basketball		Blue	Floor	Asphalt	Intact	0.2	-					
144	Court		Black	Fence	Metal	Intact	0.1	-					
145	Basement		Black	Hatch	Metal	Intact	0.2	-					

The City of Philadelphia – Department of Health defines Lead-Based Paint (LBP) to contain equal or greater than 0.70 mg/cm<sup>2</sup> lead as measured on a handheld XRF analyzer. LBP is defined by The Federal Department of Housing and Urban Development (HUD) and Environmental Protection Agency (EPA) to contain equal or greater than 1.00 mg/cm<sup>2</sup> lead as measured on a handheld XRF analyzer.

#### SECTION 4.0

#### RECOMMENDATIONS

#### 4.1 RECOMMENDATIONS FOR CATEGORY I NONFRIABLE ACM (CAT I NF)

The following Category I Nonfraible ACM (CAT I NF) was identified during this survey:

• Stair Tread Mastic

These materials are required to be removed by a Pennsylvania licensed asbestos contractor if proposed renovations or demolition will impact these materials in such a manner as to render them friable and thus RACM. Specifically, any renovation or demolition activity that will crush, abrade, or dissolve the matrix of these materials must be performed by a Pennsylvania licensed Asbestos Contractor. If these materials are in good condition and not impacted by the renovation/demolition or if renovation/demolition work will not render the material friable then they may remain on/in the facility. If demolished, this material and the building components associated with it must be disposed of in a Construction/Demolition landfill and must not be reused or recycled.

#### 4.2 CATEGORY II NONFRIABLE ACM

The following Category II Nonfriable ACM (CAT II NF) was identified during this survey:

Transite

This Category II Non-friable ACM must be removed prior to any renovation or demolition activity that will crush, abrade, or dissolve the matrix of this material. The removal of this material must be performed by a Pennsylvania licensed Asbestos Contractor. If this material is in good condition and not impacted by the renovation/demolition and will remain on/in the facility, no other special handling, or action is required for this material.

#### 4.3 ASBESTOS 10-DAY NOTIFICATION

The Department of Labor Division of Public Safety & Occupational Safety & Health Asbestos Control & Licensing Section, the Pennsylvania Department of Health and Senior Services Indoor Environments Program Consumer and Environmental Health Services, and the US Environmental Protection Agency – Region II, require notification of intent to renovate or demolish when asbestos is present. Notification must be sent at least 10 working days (5 days

> Ph: 855.862.2882 Fx: 302.737.5764

for DEP& L&I) prior to the start of any construction activities. The general contractor should also keep a copy of this survey at the construction site during the entire construction project as proof of compliance with 40 CFR 61 (NESHAP).

#### 4.4 RECOMMENDATIONS FOR LEAD BASED PAINT

Lead-Based Paint (LBP) is defined by the City of Philadelphia – Department of Health as paint that contains lead in concentrations greater than 0.7 mg/cm<sup>2</sup>. Lead-Based Paint (LBP) is defined by the Department of Housing and Urban Development (HUD) as paint that contains lead in concentrations greater than one milligram per square centimeter (1.0 mg/cm<sup>2</sup>) or 0.50% by weight. Lead in paint at any level is regulated under OSHA 29 CFR 1926.62 which applies to all construction work where an employee may be occupationally exposed to lead which includes the demolition or salvage of structures and torch cutting where lead or materials containing lead are present.

Lead Toxicity Characteristic Leaching Procedure (TCLP) samples need to be collected for outgoing demolition waste which contains known or suspected LBP to determine whether or not it is classified as Hazardous Waste under the Resource Conservation and Recovery Act (RCRA) Toxicity Characteristic (TC) Rule (40 CFR 261.24). Certain activities may trigger the necessity of Personal Protective Equipment (PPE) for the renovation/demolition workers based on their work methods as required by OSHA 29 CFR 1926.62.



#### **SECTION 5.0**

#### SIGNATURE PAGE

Submitted by:

Alyssa M. Cartagena Regional Project Manager

Reviewed by:

Pato

Neeraj Batta, PE Vice President



Ph: 855.862.2882 Fx: 302.737.5764 BATTA Environmental Associates, Inc 6 Garfield Way Newark, DE. 19713

5-1

info@battaenv.com Battaenv.com

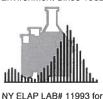


# APPENDIX A LABORATORY ANALYSIS REPORT – CERTIFICATES OF ANALYSIS



BATTA Environmental Associates, Inc 6 Garfield Way Newark, DE. 19713 info@battaenv.com Battaenv.com

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## **CERTIFICATE OF PLM ANALYSIS**

Batch#: N/A COC#: N/A Test Method: EPA/600/R-93/116 in conjunction with Batta SOP **Report Date:** 04/22/24 Sampling Data Date Sampled: 04/17/24 Sampled By: BLI Project #: L363524 S.WORONIC 1093723K-HAPPY HOLLOW REC. CENTER-4800 Wayne Avenue Project Name: Date Analyzed: 04/19/24 Analytical Data Reported Results Sample ID Client-supplied Data Lab Client Material Texture/ Non-asbestiform Asbestiform Components Sample# Sample Description Friable? Gross Color Components Sample# Туре Firm Floor Tile 100% Non-1st Floor 1481663 01A No No Asbestos Found Gray fibrous Material Homogeneous Firm Floor Tile 100% Non-1481664 01B 2nd Floor No No Asbestos Found Grav fibrous Material Homogeneous Soft Mastic 100% Non-1481665 1st Floor No Asbestos Found 02A No Yellow fibrous Material Homogeneous Soft Mastic 100% Non-1481666 02B 2nd Floor No Yellow No Asbestos Found fibrous Material Homogeneous Firm Floor Tile 100% Non-1481667 03A 1st Floor Blue No Asbestos Found No fibrous Material Homogeneous

Note 1 Due to limitations of the EPA PLM method, floor tiles may yield false negative (<1%) results by this method. As such, the EPA recommends further analysis by electron microscopy. Batta recommends the NY 198.4 over the Chatfield method.

Note 2 Unless otherwise specified, Tr=Trace and correlates to <0.25% (based on a 400-point EPA point count).

Note 3 Materials containing vermiculite are not good candidates for analysis using standard EPA 600 PLM protocol. Results may be low-biased due to inherent limitations caused by the material. The EPA recommends that vermiculite attic insulation (VAI) be prepared and analyzed using EPA 600/R-04/004, known as "The Cincinnati Method".

ANALYST: JJF

REVIEWED BY

QA/QC Officer/Signatory

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\*The test data pertain only to the items tested. No assumptions or conclusions should be made to materials or samples not analyzed. Furthermore, Batta Laboratories, LLC assumes no responsibility for the accuracy of results influenced by the use of improper collection techniques or equipment.

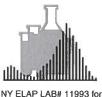
\*Organically-bound, nonfriable material may interfere with the accurate and reproducible quantification of asbestos. In these cases, the EPA recommends further analysis by a matrix-reduction method. Batta recommends the NY ELAP Item 198.6/198.4 over the Chatfield method. When point count techniques are utilized on organically-bound, nonfriable materials without the EPA-recommended matrix reduction steps, Batta Laboratories assumes no responsibility regarding the accuracy or precision associated with these results. In these cases, Batta employs a modified version of the EPA point count method.

\*WRTA refers to a group of fibrous Amphiboles typically associated with 'Libby Amphibole'. Within this classification are: winchite, richterite, tremolite, and actinolite.



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## **CERTIFICATE OF PLM ANALYSIS**

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Batch#:	N/A		_					•	
COC#:	N/A		Test Meth	od: EPA/600	/R-93/116 in conju	nction with E	Batta SOP	Report Date:	04/22/24
Sampling BLI Project Project Na	t #:	L363524 1093723K-HAPPY H		EC CENT	FR-4800 Wayne	Avenue		Date Sampled: Sampled By: Date Analyzed:	04/17/24 S.WORON 04/19/24
	ple ID	Client-sup						Reported Results	
Lab	Client	Olicitioup	Material		Texture/	Bata	Non-asbestiform		
Sample#	Sample#	Sample Description	Туре	Friable?	Gross	Color	Components	Asbestiform Con	nponents
1481668	03B	2nd Floor	Floor Tile	No	Firm	Blue	100% Non- fibrous Material	No Asbestos Found	
	· · ·				Homogeneous				
1481669	04A	1st Floor	Mastic	No	Soft	Yellow	100% Non- fibrous Material	No Asbestos Found	
8					Homogeneous				
1481670	04B	2nd Floor	Mastic	No	Soft	Yellow	100% Non-	No Asbestos Found	
	1.0.000				Homogeneous		fibrous Material		
			Baseboard		Firm		100% Non-		
1481671	05A	1st Floor		No	Homogeneous	Black	fibrous Material	No Asbestos Found	
					Firm				
1481672	05B	1st Floor	Baseboard	No		Black	100% Non- fibrous Material	No Asbestos Found	
					Homogeneous		norous material		

further analysis by electron microscopy. Batta recommends the NY 198.4 over the Chatfield method.

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ANALYST: JJF

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CERTIFICATE OF PLM ANALYSIS

Page 3 of 8

Code: 101032-D

Batch#:	N/A							l age o o	0
	N/A		Test Metho	od: EPA/600	)/R-93/116 in conju	nction with E	Batta SOP	Report Date:	04/22/24
Sampling BLI Projec Project Na	t #:	L363524 1093723K-HAPPY H	Date Sampled: Sampled By: Date Analyzed:	04/17/24 S.WOROI 04/19/24					
	ple ID	Client-sup			Analytical		R	eported Results	
Lab	Client		Material		Texture/		Non-asbestiform	-	
Sample#	Sample#	Sample Description	Туре	Friable?	Gross	Color	Components	Asbestiform Con	ponents
1481673	06A	1st Floor	Mastic	No	Soft Homogeneous	Yellow	100% Non- fibrous Material	No Asbestos Found	
1481674	06B	1st Floor	Mastic	No	Soft	Yellow	100% Non- fibrous Material	No Asbestos Found	
					Homogeneous				
1481675	07A	Stairs	Stair Tread	No	Firm	Tan	100% Non- fibrous Materiał	No Asbestos Found	
					Homogeneous		IDIOUS Waterial		
1481676	07B	Stairs	Stair Tread	No	Firm	Tan	100% Non- fibrous Material	No Asbestos Found	
					Homogeneous		instead material		
1481677	08A	Stairs	Mastic	No	Soft	Brown	98% Non- fibrous Material	2% Chrysotile Total Asbestos = 2%	
					Homogeneous				

further analysis by electron microscopy. Batta recommends the NY 198.4 over the Chatfield method.

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ANALYST: JJF

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CERTIFICATE OF PLM ANALYSIS

Page 4 of 8

ode: 101032-D

Batch#:	N/A				_			r ugo 4 o	
	N/A		Test Meth	od: EPA/600	/R-93/116 in conju	nction with	Batta SOP	Report Date:	04/22/24
ampling	Data							Date Sampled:	04/17/24
SLI Project		L363524						Sampled By:	S.WORO
roject Na		1093723K-HAPPY H						Date Analyzed:	04/19/24
Sam	ple ID	Client-sup	plied Da	ita	Analytica	Data	R	eported Results	
Lab	Client		Material		Texture/		Non-asbestiform		
Sample#	Sample#	Sample Description	Туре	Friable?	Gross	Color	Components	Asbestiform Con	nponents
1481678	08B	•• Stairs	Mastic	n/a				Sample Not Analyzed (positive stop rules)	
1481679	09A	2nd Floor water heater rm	Transite	No	Firm	Gray	85% Non- fibrous Material	15% Chrysotile Total Asbestos = 15%	
1481680	098	** 2nd Floor water heater m	Transite	n/a				Sample Not Analyzed (positive stop rules)	
1481681	10A	Boxing gym bldg-Hall outside office	Floor Tile	No	Firm Homogeneous	Gray	100% Non- fibrous Material	No Asbestos Found	
1481682	10B	Boxing gym bldg- Outside men's rm	Floor Tile	No	Firm	Gray	100% Non- fibrous Material	No Asbestos Found	
					Homogeneous				

Note 2 Unless otherwise specified, Tr=Trace and correlates to <0.25% (based on a 400-point EPA point count).

JJF

Materials containing vermiculite are not good candidates for analysis using standard EPA 600 PLM protocol. Results may be low-biased due to Note 3 inherent limitations caused by the material. The EPA recommends that vermiculite attic insulation (VAI) be prepped and analyzed using EPA 600/R-04/004, known as "The Cincinnati Method".

ANALYST:

**REVIEWED By** 

OA/QC Officer/Signatory

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\*\* This sample was not analyzed for reasons noted in the far right column. Batta Labs, LLC will not charge clients for samples not analyzed. Please contact Batta if charged in error.

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### **CERTIFICATE OF PLM ANALYSIS**

Page 5 of 8

ab Code: 101032-0

N/A								
N/A		Test Meth	od: EPA/600	/R-93/116 in conju	nction with E	Batta SOP	Report Date:	04/22/24
Data t #: me:	L363524		REC CENT	FB-4800 Wavne	Avenue		Date Sampled: Sampled By: Date Analyzed:	04/17/24 S.WORON 04/19/24
				,		B		01110121
······								
Sample#	Sample Description	Туре	Friable?	Gross	Color	Components	Asbestiform Con	nponents
11A	Boxing gym bldg-Hall outside office	Mastic	No	Soft Homogeneous	Yellow	100% Non- fibrous Material	No Asbestos Found	
118	Boxing gym bldg- Outside men's rm	Mastic	No	Soft Homogeneous	Yellow	100% Non- fibrous Material	No Asbestos Found	
12A	Boxing gym bldg-Hall outside office	Mastic	No	Soft	Tan	100% Non- fibrous Material	No Asbestos Found	
12B	Boxing gym bldg- Outside men's rm	Mastic	No	Soft	Tan	100% Non- fibrous Material	No Asbestos Found	
13A	Boxing gym bldg-main area	Mastic	No	Homogeneous Soft	Tan	100% Non- fibrous Material	No Asbestos Found	¥1.
	N/A Data t #: me: ple ID Client Sample# 11A 11B 12A 12B	N/A         Data         t #:       L363524         me:       1093723K-HAPPY High         ple ID       Client-supp         Client       Sample Description         11A       Boxing gym bldg-Hall outside office         11B       Boxing gym bldg-Outside men's rm         12A       Boxing gym bldg-Hall outside office         12B       Boxing gym bldg-Outside men's rm         13A       Boxing gym bldg-main	N/A     Test Meth       Data     Image: L363524       t #:     L363524       me:     1093723K-HAPPY HOLLOW F       ple ID     Client-supplied Date       Client     Material       Sample#     Sample Description     Type       11A     Boxing gym bldg-Hall outside office     Mastic       11B     Boxing gym bldg-Hall outside office     Mastic       12A     Boxing gym bldg-Hall outside office     Mastic       12B     Boxing gym bldg-Hall outside office     Mastic       12B     Boxing gym bldg-main     Mastic       13A     Boxing gym bldg-main     Mastic	N/A     Test Method: EPA/600       Data t #:     L363524 me:       1093723K-HAPPY HOLLOW REC. CENT ple ID     Client-supplied Data       Client     Material Sample#       Sample Description     Type       11A     Boxing gym bldg-Hall outside office     Mastic No       11B     Boxing gym bldg-Hall outside office     Mastic No       12A     Boxing gym bldg-Hall outside office     Mastic No       12B     Boxing gym bldg- Outside men's rm     Mastic No       12B     Boxing gym bldg- Outside men's rm     Mastic No	N/A       Test Method: EPA/600/R-93/116 in conju         Data t #:       L363524 1093723K-HAPPY HOLLOW REC. CENTER-4800 Wayne ple ID       Analytical         Client Sample#       Client-supplied Data       Analytical         Client Sample#       Sample Description       Type       Friable?       Gross         11A       Boxing gym bldg-Hall outside office       Mastic No       Soft       Soft         11B       Boxing gym bldg- Outside men's m       Mastic No       Soft       Soft         12A       Boxing gym bldg- Outside office       Mastic No       Soft       Soft         12B       Boxing gym bldg- Outside men's m       Mastic No       Soft       Soft         12B       Boxing gym bldg- Outside men's m       Mastic No       No       Soft         12B       Boxing gym bldg- Outside men's m       Mastic No       No       Soft         12B       Boxing gym bldg- Outside men's m       Mastic No       No       Soft         13A       Boxing gym bldg- Outside men's m       Mastic No       No       Soft	N/A       Test Method: EPA/600/R-93/116 in conjunction with I         Data t #:       L363524 me:       Analytical Data         Die ID       Client-supplied Data       Analytical Data         Client       Sample Description       Type       Friable?       Gross       Color         11A       Boxing gym bldg-Hall outside office       Mastic No       No       Soft Yellow         11B       Boxing gym bldg- Outside men's rm       Mastic No       Soft No       Soft Yellow         12A       Boxing gym bldg-file       Mastic Outside office       Mastic No       Soft Yellow         12A       Boxing gym bldg-file       Mastic Outside men's rm       Mastic No       Soft Tan Homogeneous         12A       Boxing gym bldg-file       Mastic Outside office       Mastic No       Soft Tan         12B       Boxing gym bldg-file       Mastic Outside men's rm       Mastic No       Soft Tan         12B       Boxing gym bldg-file       Mastic No       Soft No       Tan         13A       Boxing gym bldg-main area       Mastic No       Soft No       Tan	N/A       Test Method: EPA/600/R-93/116 in conjunction with Batta SOP         Data t #:       L363524 :1093723K-HAPPY HOLLOW REC. CENTER-4800 Wayne Avenue         ple ID       Client-supplied Data       Analytical Data       R         Client       Material       Texture/       Non-asbestiform Components       R         Sample #       Sample Description       Type       Friable?       Gross       Color       Non-asbestiform Components         11A       Boxing gym bldg-Hall outside office       Mastic No       No       Soft Yellow       100% Non- fibrous Material         11B       Boxing gym bldg- Outside office       Mastic No       No       Soft Yellow       100% Non- fibrous Material         12A       Boxing gym bldg-Hall outside office       Mastic No       No       Soft Homogeneous       Tan       100% Non- fibrous Material         12A       Boxing gym bldg-Hall outside office       Mastic No       No       Soft Homogeneous       Tan       100% Non- fibrous Material         12B       Boxing gym bldg- Outside men's rm       Mastic No       No       Soft Homogeneous       Tan       100% Non- fibrous Material         12B       Boxing gym bldg-main area       Mastic No       No       Soft Tan       Tan       100% Non- fibrous Material         13A       Boxing	NA         Test Method: EPA/600/R-93/116 in conjunction with Batta SOP         Report Date:           Data         Date Sampled:         Sample:         No         Sample:         No         Sample:         No         Sample:         Sample:         Sample:         Sample:         Sample:         Sample:

Note 1 Due to limitations of the EPA PLM method, floor tiles may yield false negative (<1%) results by this method. As such, the EPA recommends further analysis by electron microscopy. Batta recommends the NY 198.4 over the Chatfield method.

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ANALYST: JJF

**REVIEWED BY:** G

**AC Officer/Signatory** 

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### CERTIFICATE OF PLM ANALYSIS

Batch#: N/A COC#: Report Date: 04/22/24 N/A Test Method: EPA/600/R-93/116 in conjunction with Batta SOP Date Sampled: Sampling Data 04/17/24 Sampled By: S.WORONIC L363524 BLI Project #: 1093723K-HAPPY HOLLOW REC. CENTER-4800 Wayne Avenue Date Analyzed: 04/19/24 Project Name: **Reported Results** Sample ID **Client-supplied Data** Analytical Data Non-asbestiform Lab Client Material Texture/ Asbestiform Components Sample# Friable? Gross Color Components Sample# Sample Description Туре Soft Mastic 100% Non-Boxing gym bldg-main No Asbestos Found 1481688 13B No Tan fibrous Material area Homogeneous Firm Flue 100% Non-Boxing gym bldg-Packing 1481689 No Various No Asbestos Found 14A fibrous Material basement Homogeneous Firm Flue 100% Non-Boxing gym bldg-1481690 Packing Various No Asbestos Found 14B No basement fibrous Material Homogeneous Window Firm Boxing gym bldg-100% Non-1481691 15A Glaze Yes White No Asbestos Found fibrous Material basketball entrance Homogeneous Firm Window 100% Non-Boxing gym bldg-Glaze No Asbestos Found 1481692 16A Yes Gray basketball entrance fibrous Material Homogeneous

Due to limitations of the EPA PLM method, floor tiles may yield false negative (<1%) results by this method. As such, the EPA recommends Note 1 further analysis by electron microscopy. Batta recommends the NY 198.4 over the Chatfield method.

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REVIEWED BY:

OA/QC Officer/Signatory

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Code: 101032-D

Dedicated to a Cleaner Environment Since 1982



PCM, PLM, TEM & Lead

#### Dept. Code: PLM 0

Rev. #:



**BATTA LABORATORIES, LLC** 

A Certified MBE Company

Delaware Industrial Park, 6 Garfield Way Newark, DE19713-5817 Tel. (302)737-3376 Fax (302) 737-5764

Web: http://www.battaenv.com E-mail: battaenv@battaenv.com

### CERTIFICATE OF PLM ANALYSIS

Batch#: N/A COC#: 04/22/24 N/A Test Method: EPA/600/R-93/116 in conjunction with Batta SOP **Report Date:** Sampling Data Date Sampled: 04/17/24 Sampled By: BLI Project #: L363524 S.WORONIC Project Name: 1093723K-HAPPY HOLLOW REC. CENTER-4800 Wayne Avenue Date Analyzed: 04/19/24 **Reported Results** Sample ID **Client-supplied Data** Analytical Data Non-asbestiform Lab Client Material Texture/ Sample# Friable? Gross Color Components Asbestiform Components Sample# Sample Description Type Firm Boxing gym bldg-Main Plaster skim 100% Non-No Asbestos Found 1482175 16A LAYER No White fibrous Material boxing gym Homogeneous Firm Boxing gym bldg-Main Plaster base 100% Non-1481693 16B No No Asbestos Found Gray boxing gym fibrous Material Homogeneous Firm Boxing gym bldg-Main Plaster skim 100% Non-1482176 16B LAYER No White No Asbestos Found boxing gym fibrous Material Homogeneous Firm Boxing gym bldg-Main Plaster base 100% Non-1481694 16C No No Asbestos Found Gray fibrous Material boxing gym Homogeneous Firm Boxing gym bldg-Main Plaster skim 100% Non-1482172 16C LAYER No White No Asbestos Found fibrous Material boxing gym Homogeneous

Note 1 Due to limitations of the EPA PLM method, floor tiles may yield false negative (<1%) results by this method. As such, the EPA recommends further analysis by electron microscopy. Batta recommends the NY 198.4 over the Chatfield method.

Note 2 Unless otherwise specified, Tr=Trace and correlates to <0.25% (based on a 400-point EPA point count).

Note 3 Materials containing vermiculite are not good candidates for analysis using standard EPA 600 PLM protocol. Results may be low-biased due to inherent limitations caused by the material. The EPA recommends that vermiculite attic insulation (VAI) be prepped and analyzed using EPA 600/R-04/004, known as "The Cincinnati Method".

ANALYST: JJF

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QA/QC Officer/Signatory

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### **CERTIFICATE OF PLM ANALYSIS**

Page 8 of 8

101032-D

Batch#:	N/A							•	
COC#:	N/A		Test Metho	d: EPA/600	)/R-93/116 in conju	nction with E	Batta SOP	Report Date:	04/22/24
Sampling	Data							Date Sampled:	04/17/24
BLI Projec	:t #:	L363524						Sampled By:	S.WORONIC
Project Na	ime:	1093723K-HAPPY H	IOLLOW RI	EC. CENT	ER-4800 Wayne	Avenue		Date Analyzed:	04/19/24
Sam	ple ID	Client-sup	plied Da	ta	Analytical	Data	R	eported Results	
Lab Sample#	Client Sample#	Sample Description	Material Type	Friable?	Texture/ Gross	Color	Non-asbestiform Components	Asbestiform Con	nponents
1481695	16D	Boxing gym bldg-Main boxing gym	Plaster base	No	Firm Homogeneous	Gray	100% Non- fibrous Material	No Asbestos Found	
1482173	16D LAYER	Boxing gym bldg-Main boxing gym	Plaster skim	No	Fim Homogeneous	White	100% Non- fibrous Material	No Asbestos Found	
1481696	16E	Boxing gym bldg-Main boxing gym	Plaster base	No	Firm Homogeneous	Gray	100% Non- fibrous Materiat	No Asbestos Found	
1482174	16E LAYER	Boxing gym błdg-Main boxing gym	Plaster skim	No	Firm Homogeneous	White	100% Non- fibrous Material	No Asbestos Found	

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<b>BATTA</b> Environmental	Project Name: HQ	Inspector(s): S B.I. #:	SAMPLE NUMBER	FIELD LABI	- levez	-	2 (all c lest	4 (B.B.C (469	12 BBC 671	66.c 673	7 2000 675	5 G.B.C 677	9 BB.C 679	A, B, C	10 BBC 681	11 (ABC 1683	12 QBC LOSL	13 De 687	NU 0000 689	Notes 1 AHERA Classification: T=Thermal Insulation,			

BLIE: LOUSSAY

p Unless Otherwise Noted on this COC p Unless Otherwise Noted on this COC Date/Time Cert of Analysis Req: <u>U 122 120U 5</u> Results to: Manager: <u>NC 5C0 k</u> Results to: Phone:	Pac		DE IEA Hamo White NHO	2000st layered								/	/	/			Date: / / Time:	1 1	Date: / / Time: Date: / / Time: S (Noneed OthereForme State Astronoc Nas, 2000 State
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RONMENTAL ASSOCIATES strial Park Ph (302) 737-5 773-5817 WWW.battaenv W R V Phil		CLASS G/	Window Plazina M D	mody plaster wails S E			/										2 Material Sampled: Ppe Covering, Boiler Breeching, Ceiling Tae, Floor Date:		By:Date: By:Date:
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	A PLM							mpus 221810 (	Scope #3)		n 222	212 (Scope	¥5)	Page 1	of 9	
PLM Scope	ID#: Nikor	1 202306 (Sc	ope #1)	Leica	DM750P (S	Scope #2)		mpus 240335 (	(Scope #4)	Niko	n 102	293 (Scope	¥6)	Olym	pus 202705 (Sc	cope #7)
			BLI P	roject #	L36	3524	Nai	me of Clie	nt/Project	<u>: 10</u>	937	723K-H	APPY	HOLLO	W REC. C	ENTE
Samp	le Type <sup>1</sup>	Visual Gross <sup>2</sup>		Sample Color	3	4 Friability	Sample 5 Texture	Morphology <sup>6</sup>	Fiber Color (in plane light)				Asbestos 12 Types	Non-Asbestos Types <sup>13</sup>	Optical/Morph. Characteristics	Non-Fibrou Types
Temperature (°C):			1 black	7 brown	13 orange		1 cementic.	1 wavy		-			hrysotile	1 cellulose	1 undulose ext.	1 matrix
l insulation	6 ceiling tile	1 Homogenous	2 tan	8 blue	14 various	Friable	2 granular	2 straight	1 clear	ino 2y		10	mosite	2 fiberglass	2 isotropic	2 binder
2 sheetrock	7 linoleum		3 gold	9 white	15 other	or	3 fibrous	3 splayed ends	2 tan				rocidolite	3 mineral wool	3 shot	3 CaSO4
3 roofing material	8 floor tile	2 Heterogeneou	4 yellow	10 red		Nonfriable	4 firm	4 fiber bundles	3 blue			2 oblique 4	inthophyllite	4 synthetic fiber	4 high birefringenc	e 4 CaCO <sub>2</sub>
4 soil	9 mastic/adhesive		5 silver	11 green			5 soft	5 single libers	4 brown	d yes, give col	or <u>El</u>	longation <sup>11</sup> 5	remolite	5 wollastonite	5 mult.elon.(flips)	5 Vermiculit
5 joint compound	10 plaster	3 Layered	6 gray	12 pink			6 paper-like	6 blocky	5 other		_		ictinolite	other	other	6 other
	Sample Desc Client-Supplied Data	rfptions Macroscopic		stos #1 Properties		tos #2 Properties	Asbes Optical F		% Ashestos Method el Qua			% Wethod of Quar		n-Asbestos Type	(13) haracteristics <sup>14</sup>	Analyst's Notes
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1481663	Sample Type <sup>1</sup>	Visual Gross <sup>2</sup>	Fiber Color <sup>7</sup>	uD T	Fiber Color <sup>7</sup>	⊥	Fiber Color <sup>7</sup>	n <sub>D</sub> T	/ VAE		-	VAE				
	Q	- l'							1234 56	78	+		SP 6-1-5-14			4
Field Sample #	Friability <sup>4</sup>	Sample Color <sup>3</sup>	Pleochroism <sup>8</sup>	Extinction <sup>10</sup>	Pleochroism <sup>8</sup>	Extinction <sup>10</sup>	Pleochroism <sup>8</sup>	Extinction <sup>10</sup>	1			PC				1
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								20	VAE			VAE				VAE %
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			Optical F	roperties	Optical F	roperties	Optical F	roperties	Method of Qua	unt. %		Vethod of Quar	_		3) naracteristics <sup>14</sup>	Analyst's Notes
1481665	Sample Type <sup>1</sup>	Macroscopic								unt. %	. N	Method of Quar	_			•
	Sample Type <sup>1</sup>		Optical F	roperties	Optical F	roperties	Optical F	roperties	Method bi Que	unt. %	, N	TT	_			
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PLM Scope	ID#: Nikor	1 202306 (Sco	ope #1)	Leica	DM750P (S	Scope #2)		mpus 24033	5 (Scope #4)	Nikon	102293 (Scop	∋ #6)	Olympus	202705 (Scope #7)
			BLI P	roject #	<u>L36</u>	<u>3524</u>	Nar	ne of Cli	ient/Project	t: <u>109</u>	<u>3723K-</u> ł	IAPPY	HOLLOW	REC. CENTER
Samp	а Туре	Visual Gross <sup>2</sup>		Sample Color	3	4 Friability	Sample 5 Texture	Morphology	6 Fiber Color (in plane light)	Pleochroism <sup>8</sup>	9 <u>Bire</u> 1-ko 3-hi	Asbestos 12 Types	12	pptical/Morph Non-Fibrous aracteristics 14 Types
Temperature (°C):			1 black	7 brown	13 orange		1 cementic.	1 wavy			2 medium	chrysotile	1 celhulose 1 un	ndulose ext. 1 matrix
1 insulation 2 sheetrock	6 ceiling tile 7 linoleum	1 Homogenous	2 lan 3 gold	8 blue 9 white	14 various 15 other	Friable	2 granular 3 fibrous	2 straight 3 splayed end	1 clear s 2 tan	1 no 2 yes		amosite crocidolite	2 fiberglass 2 iso 3 mineral wool 3 sh	otropic 2 binder not 3 CaSO4
3 roofing material	8 floor tile	2 Heterogeneous		10 red		Nontriable	4 firm	4 liber bundle			2 oblique	anthophyllite	4 synthetic fiber 4 hi	gh birefringence 4 CaCO2
4 soil	9 mastic/adhesive		5 silver	11 green			5 soft	5 single fibers		if yes, give color		tremolite		ult.elon.(flips) 5 Vermiculite
5 joint compound	10 plaster Sample Desc	3 Layered	6 gray Asbes	12 pink	Ache	stos #2	6 paper-like Asbes	6 blocky	5 other % Aspestos	Type (12)	+ or - 6	% Eibrous No	otherothe	
Lab Sample #	Client-Supplied Data	Macroscopic	Optical P			Properties		roperties	Methop of Qu		Method of Qu		Optical Charac	
	Sample Type	Visual Gross <sup>2</sup>	Morph <sup>6</sup>	n <sub>D II</sub>	Morph <sup>6</sup>	"D II	Morph <sup>6</sup>	<sup>n</sup> D II	1234 91	578	PC	1		
1481667			Fiber Color <sup>7</sup>	uD T	Fiber Color <sup>7</sup>	nDT	Fiber Color <sup>7</sup>	n <sub>D</sub> ⊥	VAE		VAE		1	
	0								1234 5	678	++			
Field Sample #	Friability <sup>4</sup>	Sample/Color"	Pleochroism	Extinction	Pleochroism	Extinction <sup>10</sup>	Pleochroism°	Extinction	1		PC		-	
		8				/			VAE		VAE			* scan
03A	F or N	Texture <sup>5</sup>	Biref. <sup>9</sup>	Elongation <sup>11</sup>	Biref. <sup>9</sup>	Elongation <sup>11</sup>	Bire1.9	Elongation <sup>11</sup>	1234 5	678	PC			Asbestos Stereo
		9							VAE		VAE		1	VAE %
	Demted at the second	, Nov 4		Ormania		A.,		lathad	tlassfatter		Nonfibr	ous Types <sup>16</sup>	5 Percent	age
Aspestos-	Containing Desc		sbestos	e #1				e #3	tandaterγ % Asbes	tos (12)	-	% Fibrous	Non-Asbestos (13)	Analyst's
Lab Sample #	Client-Supplied Data	Macroscopic	Optical F	roperties	Optical	Properties	Optical F	roperties	Method of Ou		Method of Qu	ant. %	Optical Charac	cteristics <sup>14</sup> Notes
	Sample Type <sup>1</sup>	Visual Gross <sup>2</sup>	Morph <sup>®</sup>	<sup>n</sup> D II	Morph <sup>6</sup>	n <sub>D II</sub>	Morph <sup>6</sup>	n <sub>D</sub> II	12:4	578	PC			
1481668	<u> </u>		Fiber Color <sup>7</sup>	nD ⊤	Fiber Color <sup>7</sup>	_uD ⊤	Fiber Color <sup>7</sup>	n <sub>D</sub> ⊥	VAE		VAE		]	
<u> </u>		Consta Color <sup>3</sup>	Pleochroism <sup>8</sup>	Extinction <sup>10</sup>	Pleochroism	Extinction <sup>10</sup>	Pleochroism	Extinction <sup>10</sup>	1234 5	678	PC			
Field Sample #	Friability <sup>4</sup>	Sample Color	Pieuchroisin	Expression	Pieucisiosi	EXUNCTION	Piedcavoism	EXINGUI	VAE				-	
		0							1234 5					* scan Asbestos
03B	ForN	Texture	Birel. <sup>9</sup>	Elongation'	Biref.	Elongation	Biret. <sup>9</sup>	Elongation''	/		PC			Sterep
					$\square$				VAE		VAE		Barrage	VAE %
Asbestos-	Containing	Non-A	sbestos	-Contai	ning 🖟	An	alytical	Method:	Specify if diffe	rent	Nontibr	ous Types <sup>1</sup>	Percent	age /
	Sample Des		-	e#1	Тут			e#3	% Asbes			_	Non-Asbestos (13)	Analyst's statistics <sup>14</sup> Notes
Lab Sample #	Client-Supplied Data	Macroscopic	Optical I Morph <sup>6</sup>	roperties nD II	Morph <sup>6</sup>	Properties nD II	Morph <sup>6</sup>	Properties In D II	Method of Qu		Method of Qu	ant. %	Optical Charac	teristics" Noies
1481669	Sample Type <sup>1</sup>	Visual Gross <sup>2</sup>	Fiber Color <sup>7</sup>	n <sub>D</sub> L	Fiber Color <sup>7</sup>	n <sub>D</sub> T	Fiber Color <sup>7</sup>	npl	7				-	
1401000	9	142	TIDET COLOT						VAE		VAE			
Field Sample #	Friability <sup>4</sup>	Sample Color	<sup>3</sup> Pleochroism <sup>8</sup>	Extinction <sup>10</sup>	Pleochroism	Extinction <sup>10</sup>	Pleochroism	Extinction <sup>10</sup>	12345	678	PC	1		
T Kita Gumpio #	Рпаряну	4							VAE		VAE		]	* scan
	ForN	Texture <sup>5</sup>	Biref. <sup>9</sup>	Elongation	Biref. <sup>9</sup>	Elongation <sup>1</sup>	Biref. <sup>9</sup>	Elongation <sup>11</sup>	12345	678	PC	10 100		Asbestos
04A		$\square$							VAE		VAE	. ,	1	Stereo VAE %
			1							_	Nonfibr	ous Types <sup>1</sup>	5 Percent	tage
Asbestos-	Containing Des		Asbestos	-Contai		Ar pe #2	alytical	Method:	Specify if diffe	stos (12)		% Fibrous	Non-Asbestos (13)	Analyst's
Lab Sample #	Client-Supplied Data	Macroscopic	-	Properties		Properties		Properties	Method of Ou	and. %	Method of Qu		Optical Chara	
	Sample Type <sup>1</sup>	Visual Gross <sup>2</sup>	Morph <sup>6</sup>	n <sub>D</sub> II	Morph <sup>6</sup>	<sup>n</sup> D II	Morph <sup>6</sup>	n <sub>D</sub> II	12 4	678	PC			
1481670	6		Fiber Color <sup>7</sup>	n <sub>D</sub> ⊥	Fiber Color	n <sub>D</sub> I	Fiber Color <sup>7</sup>	п <sub>D</sub> т	VAE		VA		1	
			1 1					10	12345	678	PC			
Field Sample #	Friability <sup>4</sup>	Sample Color	Pleochroism	Extinction <sup>10</sup>	Pleochroism	Extinction <sup>10</sup>	Pleochroism	Extinction	1					
		4							1234 5		VAI			* scan
04B	F or N	Textuse <sup>5</sup>	Biref. <sup>9</sup>	Elongation <sup>1</sup>	<sup>1</sup> Bire1. <sup>9</sup>	Elongation <sup>1</sup>	<sup>1</sup> Biref. <sup>9</sup>	Elongation <sup>11</sup>	1		PC			Asbestos Stereo
					$\square$				VAE	:	VA			VAE %
Asbestos-	Containing D	Non-	Asbestos	Contai	ning	Ar	alytical	Method:	Specity if diffe	arent	Nonfib	ous Types	Percen	
	VAE: (Calibrated)	-							Analysis:	L	1191	X	Analyst:	1/0
Analytical Me	ethods:	* If usi	ng scan opti	on for ELA	P, circle sca	n in notes t				stos containin	g vs. non-asbe	stos contai	ning is based on E	EPA NESHAPs definition.
	3/116 Without Grav 3/116 With Gravim				0/R-93/116 OB Chatfiel		t Count				ate of New Jer ARB 435:	sey DOLAV	VD Method (38 N.	J.R. 2526)
	3/116: 400 Point Co						d Point Cour	nt)			her (specify):			

#### **BATTA PLM Bench Sheet** Page 3 of 9 Olympus 221810 (Scope #3) Nikon 222212 (Scope #5) PLM Scope ID#: Nikon 202306 (Scope #1) Leica DM750P (Scope #2) Olympus 240335 (Scope #4) Nikon 102293 (Scope #6) Olympus 202705 (Scope #7) 1093723K-HAPPY HOLLOW REC. CENTER **BLI Project #** L363524 Name of Client/Project: Fiber Color Asbestos Optical/Morph Non-Fibrou Sample Non-Asbesto Bire<sup>9</sup> 6 Morphology Pleochroism<sup>8</sup> Sample Type<sup>1</sup> Sample Color rlability Types<sup>13</sup> Types<sup>15</sup> Visual Gross (in plane light) Texture<sup>5</sup> Types<sup>12</sup> Characteristics 1 1-lo 3-hi Temperature (°C): black 7 brown 13 orange comentic 2 medium chrysotik 1 cellulose 1 undulose ext matrix Friable 6 ceiling tile 14 various granular 2 straight clear 2 yes Extinction amosite fiberglass isotropic binder insulation 2 tan 8 blue Homogenous i no 3 CaSO4 3 splayed ends crocidolite 3 mineral wool 3 shot sheetrock 7 linoleum 3 gold 9 white 15 other\_ 3 fibrous tan ? 1 parallel or 4 yellow 4 CaCO<sub>2</sub> 3 roofing material 8 floor tile Heter 10 red Nonfriable 4 firm 4 fiber bundles 3 blue 2 oblique anthophytit 4 synthetic fibe 4 high birefringen 11 green Vermicuti l soi 9 mastic/adhesiv sitve soft single fiber brown Elongation wollastonite 5 mult.elon.(flips) if yes, give colo 5 other 5 other 5 joint compound 10 plaster 12 pink 6 blocky + or actinolite other 3 Layered 6 gray 6 paper-like Sample Description Asbestos #1 Asbestos #2 Asbestos #3 % Asb % Fibrous Non-Asbestos Type (13) Analyst's stos Type (12) Method of Quant. Notes Client-Supplied Data Macros Optical Propertie Optical Properties Optical Properties Method of Quant. % % Optical Characteristics Lab Sample # n<sub>D</sub> II nD II Morph<sup>6</sup> nD II Morph 12 4 9678 Morph PC Sample Type Visual Gross n<sub>D</sub> I nD 1 n<sub>D</sub> I 1481671 -iber Colo VAE VAE KAJE DOAL 1234 5678 PC Extinction Extinction Sample Color Pleochroism leochroism **Extinction** Pleochroism 1 Field Sample # Friability VAE VAE scan 1234 5678 Asbestos Texture<sup>5</sup> Biref.<sup>9</sup> Iongation Biref.<sup>9</sup> Elongation PC F or N Elongation Biref 05A Stereo, VAE % VAE VAE U Nonfibrous Type Percentage 1 Asbestos-Containing Non-Asbestos-Containing **Analytical Method:** Type #2 Type #3 % Asbestos (12) % Fibrous Non-Asbestos (13) Analyst's Sample Descriptions Type #1 Method of Quant. 12345678 Client-Supplied Data Macroscopic Optical Properties Optical Propertie Optical Propertie Method of Quant. Notes % Lab Sample # Optical Characterist nD II n<sub>D 11</sub> nD II Morph Morph<sup>6</sup> Morph PC Sample Type Visual Gross nD T n<sub>D</sub> 1 1481672 Fiber Color n<sub>D</sub> 1 Fiber Color Fiber Color VAE VAE Baseboard 1234 5678 Extinction Extinction leochroisn Extinction PC Sample Cold leochroisr Pleochroist 7 Field Sample # Friability VAF VAE scan 1234 5678 Asbestos PC Texture<sup>5</sup> Biref.<sup>9</sup> Rinef<sup>9</sup> F or N Elongation Biref. Elongation Elongation 05B Stereo VAE % VAE VAE L Percentage Nonfibrous Types Ó Asbestos-Containing Non-Asbestos-Containing **Analytical Method:** Sample Descriptions Type #3 % Asbestos (12) % Fibrous Non-Asbestos (13) Analyst's Type #2 Type #1 Notes Client-Supplied Data Macroscopi Optical Properties Optical Properties Optical Properties Method Quant. Method of Quant. % Optical Characteristic: % Lab Sample # nD II nD II nD II Morph<sup>6</sup> Morph<sup>6</sup> Morph<sup>6</sup> PC Sample Type Visual Gross uD T 1481673 nD T n<sub>D</sub> 1 Fiber Color Fiber Color Fiber Color VAE VAE 1234 5678 PC ample Col leochroisr Extinction leochr Extinction leochroisr Extinction Field Sample # Friability L VAE VAE scan 1234 5678 Asbestos 9 PC E or N Textu Biref.<sup>9</sup> Elongation Bin Elongation Birel.9 Elongation 06A Stereo VAE % VAE VAE Percentage 0 Nonfibrous Type Asbestos-Containing Non-Asbestos-Containing Analytical Method: Туре#1 Туре #3 % Asbestos (12) s Non-Aspestos (13) Analyst's Sample Descriptions Type #2 Notes Method e Quant. 1234 5678 Method of Quant. Client-Supplied Data Macroscopic **Optical Properties** Optical Properties Optical Properties % % Optical Characteristics Lab Sample # n<sub>D</sub> II Morph<sup>6</sup> n<sub>D</sub> II n<sub>D</sub> II Morph<sup>6</sup> Morph PC Sample Type<sup>1</sup> Visual Gross nD 1 υĎΤ 1481674 n<sub>D</sub> I Fiber Color Fiber Color Fiber Colo VAE VAE U 1234 5678 PC ample Col eochrois Extinction leochrois Extinction<sup>1</sup> eochroisi Extinction Field Sample # Friability VAE ι VAE scan 1234 5678 Asbestos Bire1.9 PC E or N Texture<sup>5</sup> Biref.<sup>9</sup> Biref.<sup>9</sup> Flongation Elongation Elongation 06B Stereo VAE % VAE VAE Rercentage Nonfibrous Types Ŭ Non-Asbestos Containing Asbestos-Containing Analytical Method: Specify if differen PC: Point Count; VAE: (Calibrated) Visual Area Estimate (in Weight Percent) Date of Analysis: Analyst: non-asbestos containing is based on EPA NESHAPs definition. Analytical Methods: Note: Definition of asbestos containing If using scan option for ELAP, circle scan in notes block 7. State of New Jersey DOLAWD Method (38 N.J.R. 2526) 1. EPA/600/R-93/116 Without Gravimetry 4. EPA/600/R-93/116: 1000 Point Count 8. CARB 435 2. EPA/600/R-93/116 With Gravimetry 5. PLM NOB Chatfield Method 6. NYDOH ELAP 198.1 (Stratified Point Count) 3. EPA/600/R-93/116: 400 Point Count 9. Other (specify):

#### **BATTA PLM Bench Sheet** Olympus 221810 (Scope #3) Nikon 222212 (Scope #5) Page 4 of 9 PLM Scope ID#: Nikon 202306 (Scope #1) Vikon 202306 (Scope #2) Olympus 240335 (Scope #4) Nikon 102293 (Scope #6) Olympus 202705 (Scope #7) 1093723K-HAPPY HOLLOW REC. CENTER BLI Project # L363524 Name of Client/Project: Sample Fiber Color Asbestos Non-Asbesto Optical/Morph Non-Fibrou Bire<sup>9</sup> Morphology<sup>6</sup> Sample Color<sup>3</sup> Pleochroism<sup>8</sup> 4 riabiity Sample Type<sup>1</sup> Visual Gross<sup>2</sup> Types<sup>12</sup> Types<sup>13</sup> Types<sup>15</sup> Characteristics Texture (in plane light) 1-lo 3-hi Temperature (°C): black 7 hrown 13 orange cementic 1 waw 2 medium 1 chrysotile L cellulose 1 undulose ext matrix Friable binder insulation 6 ceiling tile 2 tan 8 blue 14 various granular 2 straight clear 2 yes Extinction amosite 2 fiberglass 2 isotropic no Homogenous 3 CaSO4 sheetrock 7 linoleum 9 white 15 other\_\_ 3 fibrous 3 splayed ends 2 tan 1 parallel crocidolite 3 mineral wool 3 shot 3 gold or 4 high birefringence 4 CaCO 3 roofing material 8 floor tile 2 Hete 4 vellow 10 red Nontriable 4 firm 4 fiber bundles 3 blue 2 oblique anthophyllite 4 synthetic fibe 4 browr 9 mastic/adhesiv 5 single fibers wollastonite mult.elon.(Ilips) Vermiculit soil silver 11 greer soft Elongation il yes. give colo 5 joint compound 10 plaster 6 paper-like 6 blocky 5 other actinolite 6 other 6 gray 12 pink + or other other 3 Lavered Asbestos #1 Asbestos #2 Achestos #3 % Aspestos Type (12) % Fibrous Non-Ashestos Type (13) Analyst's Sample Descriptions Optical Properties Optical Properties Method et Quant. Method of Quant. Notes Client-Supplied Data Macroscopic Optical Properties % Optical Characteristic: Lab Sample # nD II nD II nD II Morph<sup>6</sup> 1234 \$678 Morph<sup>6</sup> Morph<sup>6</sup> PC Sample Type Visual Gross n<sub>D</sub> 1 n<sub>D</sub> 1 1481675 1 пDТ Fiber Colo Fiber Colo Fiber Colo VAE VAE 541 VEAN 1234 5678 PC Extinction leochroism Extinction Sample Color Pleochroism Extinction leochroisn Field Sample # Friability<sup>4</sup> 2 VAE VAF scan 1234 5678 Biref 9 Asbestos F or N <sup>2</sup>erutxeT Biref.<sup>9</sup> Elongation Elongation Binef<sup>9</sup> Elongation PC 07A Stereo $\boldsymbol{L}$ VAE % VAE VAE Nonfibrous Percentage Type: Asbestos-Containing $\mathcal{T}$ 0 Non-Asbestos-Containing **Analytical Method:** Sample Descriptions Type #1 % Asbestos (12) Type #2 Type #3 % Fibrous Non-Asbestos (13) Analyst's Methodol Quant. Notes Client-Supplied Data Macroscopic Optical Properties Optical Properties Ontical Properties Method of Quant % Optical Characteristic Lab Sample # nD II <sup>n</sup>D II nD II Morph<sup>6</sup> Morph<sup>6</sup> Morph<sup>6</sup> PC Sample Type Visual Gross 1481676 nDT ηDΤ n<sub>D</sub> 1 Fiber Color Fiber Color Fiber Color VAE VAE 141/ \$ ~ D W 1234 5678 ample Col leochrois Extinction leochrois Extinction leochrois Extinction PC 1 Field Sample # Friability<sup>4</sup> VAE VAE L scan 1234 5678 Asbestos Texture<sup>5</sup> Biref.9 Biref.<sup>9</sup> PC F or N Biref<sup>1</sup> Flongation Elongation Elongation 07B Stereo $\boldsymbol{\nu}$ VAE % VAE VAE Nonfibrous Types Percentage 0 Asbestos-Containing Non-Asbestos-Containing Analytical Method: 0 Z Sample Descriptions Type #1 Туре #3 % Asbestos (12) Fibrous Nor Asbestos (13) Analysť Type #2 Notes Client-Supplied Data Macroscopic **Optical Properties Optical Properties Optical Properties** Method of Quant. % Method of Quant. % **Optical Characteristics** Lab Sample # 1.22 Morph<sup>6</sup> n<sub>D</sub> II n<sub>D</sub> II Morph<sup>6</sup> Morp PC Sample Type Visual Gr 1481677 n<sub>D</sub> ⊥ n<sub>D</sub> T 72 Fiber Color Fiber Colo Fiber Colo g VAE VAE 5]. 1234 5678 PC Extinction leochroisn Extinction Sample Cold leochrol Extinction leochrois Field Sample # Friability VAE VAE scan 1234 5678 Asbestos Biref.<sup>9</sup> PC Biref.<sup>9</sup> Biref.9 F or N Texture Elongation Elongation Elongation 08A Stereo -VAE % VAE VAE Ó Nonfibrous Type Perceptage Asbestos-Containing Non-Asbestos-Containing Analytical Method: 7 % Asbestos (12) Analyst's Sample Descriptions Type #1 Туре #2 Type #3 % Fibrous Non-Asbestos (13 Notes Method of Quant Method of Quant. Client-Supplied Data Macroscopic Optical Properties **Optical Properties Optical Properties** Optical Characteristics<sup>14</sup> % % Lab Sample # 1234 5678 ND II <sup>n</sup>D II nD II Morph<sup>6</sup> Morph<sup>6</sup> Morph PC Sample Type Visual Gross nD T 1481678 n<sub>D</sub> I n<sub>D</sub> 1 Fiber Color Fiber Color Fiber Color VAF VAF 1234 5678 PC Sample Colo Extinction Pleochroisr Extinction Extinction ochroisn Field Sample # Friability VAL VAE scan 1234 5678 Asbestos PC F or N Biref.9 Biref.9 Biref.9 Texture<sup>5</sup> Elongation Elongation Elongation 08B Stereo VAE VA VAE % Percentage Nonfibrous Types Asbestos-Containing Non-Asbestos Containing Analytical Method: Specify if different 4 PC: Point Count; VAE: (Calibrated) Visual Area Estimate (in Weight Percent) Date of Analysis: Analyst: 101 Note: Definition of asbestos containing vs. non-asbestos containing is based on EPA NESHAPs definition. 7. State of New Jersey DOLAWD Method (38 N.J.R. 2526) Analytical Methods: \* If using scan option for ELAP, circle scan in notes block 1. EPA/600/R-93/116 Without Gravimetry 4. EPA/600/R-93/116: 1000 Point Count 2. EPA/600/R-93/116 V

With Crewimpter	6 DI M NOD ChatGald Mathad
Vith Gravimetry	<ol><li>PLM NOB Chatfield Method</li></ol>
400 Point Count	6. NYDOH ELAP 198.1 (Stratified Point Count)

3. EPA/600/R-93/116:

8 CARB 435

9. Other (specify)

RATT	A PLM	Bon	ch C	haat	ŀ									Daga 5 of 0	
							1 - =	mpus 221810				22212 (Scope #5		Page 5 of 9	
PLM Scope	ID#: Nikor	n 202306 (Sco	ope #1)	M Leica	DM750P (S	Scope #2)		mpus 24033	6 (Scope #4)	□ Nił	(ON 10	02293 (Scope #6	i)	Olympus 202705 (Sco	ope #7)
			BLI P	roject #	L36	3524	Nar	ne of Cli	ent/Project	: 1 <u>1</u>	093	3723K-HA	PPY	HOLLOW REC. C	ENTER
							Sample		Fiber Color			9 As	bestos	Non-Asbestos Optical/Morph.	Non-Fibrous
Sampl	е Туре	Visual Gross <sup>2</sup>		Sample Color	5	Friability <sup>4</sup>	5 erutxeT	Morphology	(in plane light)	Pleochroi	sm <sup>8</sup>	Bire <sup>9</sup> 1-ko 3-hi Ty	12 pes	Types <sup>13</sup> Characteristics <sup>14</sup>	15 Types
Temperature (°C):			1 black	7 brown	13 orange		1 cementic.	1 wavy	-				ysotile	1 cellulose 1 undulose ext	1 matrix
1 insulation	6 ceiling tile	1 Homogenous	2 tan	8 blue	14 various	Friable	2 granular	2 straight	1 clear	1 no 2	2 yes	Extinction 10 2 am	osite	2 liberglass 2 isotropic	2 binder
2 sheetrock	7 linoleum		3 gold	9 white	15 other	or	3 fibrous	3 splayed ends	2 tan			1 parallel 3 cro	cidolite	3 mineral wool 3 shot	3 CaSO4
3 rooling material	8 floor tile	2 Heterogeneous	4 yellow	10 red		Noníriable	4 firm	4 fiber bundles	3 blue			2 oblique 4 ani	hophyllite	4 synthetic fiber 4 high birefringence	4 CaCO <sub>2</sub>
4 soil 5 joint compound	9 mastic/adhesive 10 plaster	a	5 silver	11 green			5 soft 6 paper-like	5 single fibers 6 blocky	4 brown 5 other	d yes, give	color	Elongation 5 tre + or - 6 ac			5 Vermiculite 6 other
15 Join compound		3 Layered	6 gray	12 pink		stos #2	Asbes		% Asbestos		_	1272		n-Asbestos Type (13)	
	Sample Desc Client-Supplied Data	Macroscopic	Asbes Optical P			Properties	· · · · · · · · · · · · · · · · · · ·	roperties	Method Qua		%	70 F Method of Quant.	%	Optical Characteristics <sup>14</sup>	Analyst's Notes
Lab Sample #			Morph <sup>6</sup>	INDE C	Morph <sup>6</sup>	n <sub>D</sub> II	Morph <sup>6</sup>	n <sub>D II</sub>	1234.5	578		PC	0.08		
1481679	Sample Type <sup>1</sup>	Visual Gross <sup>2</sup>		n <sub>D</sub>	51 . o. t. 7	n <sub>D</sub> ⊥	7	np⊥			7		10		
1401079	Transik		Fiber Cólor'	1325	Fiber Color		Fiber Color		VAE	i	5	VAE			
			St	10	Discolation (	Extinction <sup>10</sup>	Pleochroism <sup>8</sup>	Extinction <sup>10</sup>	1234 56	578		PC	1000		
Field Sample #	Friability <sup>4</sup>	Sample Color	Pleochroism	Extinction "	Pleochroism	Extinction	Pieochiroism	Extinction	/						
		4					_		VAE			VAE			* scan
	F or N	Texture <sup>5</sup>	Biref. <sup>9</sup>	Elongation <sup>11</sup>	Biref.9	Elongation <sup>11</sup>	Biref. <sup>9</sup>	Elongation <sup>11</sup>	1234 50	578	Contrast.	PC	35.35		Asbestos
09A		10	(			<del> </del>			VAE		-	VAE			Stereo VAE %
L		4		)									Times <sup>15</sup>	Percentage	
Asbestos-0	Containing d	Non-A	sbestos	-Contair	nina 🗆	An	alytical I	Method:	Manuetory			Nonfibrous	Types		$\mathbf{O}$
	Sample Desc	A CONTRACTOR OF THE OWNER	11.000	e #1		e#2		e#3	% Asbes	los (12)	-		6 Fibrous	Non-Asbestos (13)	Analyst's
Lab Sample #	Client-Supplied Data	Macroscopic	Optical F	roperties		Properties	Optical P	roperties	Method of Qua		%	Method of Quant.	%	Optical Characteristics 14	Notes
	Sample Type	Visual Gross <sup>2</sup>	Morph <sup>6</sup>	nD II	Morph <sup>6</sup>	n <sub>D</sub> II	Morph <sup>6</sup>	<sup>n</sup> D II	1234 50	578	- 7	PC			
1481680	Sample (ype	VISUAL GIOSS	Fiber Color	n <sub>D</sub> L	Fiber Celor <sup>7</sup>	n <sub>D</sub> ⊥	Fiber Color <sup>7</sup>	npl				VAF		1	PR
												VAE			TOP
		Sample Color <sup>3</sup>	Pleochroism <sup>8</sup>	Extinction <sup>10</sup>	Pleochroism	<sup>8</sup> Extinction <sup>10</sup>	Pleochroism <sup>8</sup>	Extinction <sup>10</sup>	1234 50	578		PC			5.4
Field Sample #	Friability <sup>4</sup>								VAE		/	VAE			
L						<b> </b>			1234 51		_	VAE	~		* scan
09B	F or N	Texture <sup>5</sup>	Biref. <sup>9</sup>	Elongation <sup>11</sup>	Biret. <sup>9</sup>	Elongation <sup>11</sup>	Biref. <sup>9</sup>	Elongation <sup>11</sup>	1			PC			Asbestos Stereo
000									VAE			VAE			VAE %
												Nonfibrous	Types <sup>15</sup>	Percentage	
Asbestos-0	Containing 🗆	Non-A	sbestos	-Contair	ning 🗆	An	alytical	Method:	Specify if diffe	rent					
r	Sample Desc	1		e#1		xe #2		e #3 Properties	% Asbes			Method of Quant.		Non-Asbestos (13)	Analyst's Notes
Lab Sample #	Client-Supplied Data	Macroscopic	Optical F Morph <sup>6</sup>	nD II	Morph <sup>6</sup>	Properties	Morph <sup>6</sup>	nD II	Method of Cu 1234 9		%		%	Optical Characteristics <sup>14</sup>	140185
	Sample Type <sup>1</sup>	Visual Cross <sup>2</sup>	Worph		Wolph				7			PC			
1481681	<u> </u>	$\vdash$	Fiber Color <sup>7</sup>	n <sub>D</sub> ⊥	Fiber Color <sup>7</sup>	nDT	Fiber Color <sup>7</sup>	nD⊤	VAE			VAE			
L	0		<u> </u>		<u> </u>				1234 5	578			11:54.54		1
Field Sample #	Friability <sup>4</sup>	Sample Color <sup>3</sup>	Pleochroism <sup>8</sup>	Extinction <sup>10</sup>	Pleochroism	Extinction <sup>10</sup>	Pleochroism	Extinction <sup>10</sup>	1			PC	1.0		
	T tubbinty								VAE			VAE			* scan
	E N	Texture <sup>5</sup>	Biref. <sup>9</sup>	Elongation <sup>11</sup>	Biref.	Elongation	Biref. <sup>9</sup>	Elongation <sup>11</sup>	1234 5	678		PC			Asbestos
10A	F or N	Textule	Birei.	Elongation	Bilet.	ciongation	Dilei.	Elongauon	1	194					Stereo
L						1			VAE			VAE	1		VAE %
Ashestas	Containing	Non	sbestos	Contain	ving	A-	alytical	Mathod	Specify if diffe	rent		Nonfibrous	Types <sup>15</sup>	Percentiage	$\mathcal{O}^{r}$
Mancalog-	Sample Desc			e#1		An 20 #2		wietnoa:	Specify if alle				K Fihrour	Non-Asbestos (13)	Analyst's
<b></b>	Client-Supplied Data	Macroscopic		e #1 Properties		Properties		Properties	% Asbes Method of Qu		%	Method of Quant.	% Fibrous	Optical Characteristics <sup>14</sup>	Notes
Lab Sample #			Morph <sup>6</sup>	nD II .	Morph <sup>6</sup>	n <sub>D</sub> II	Morph <sup>6</sup>	<sup>n</sup> D II	12 45			PC			
1481682	Sample Type <sup>1</sup>	Visual Gross <sup>2</sup>	Ph 7	nD T	Fiber 6 1 7	n <sub>D</sub> T	7	n <sub>D</sub> ⊥	/		E		100	-	
1401002	X		Fiber Color		Fiber Color		Fiber Color		VAE			VAE			
	-0	Samely Cut 3	Diacaharia 6	Culinati - 10	Blocobrol	8 10	Blocatural	Extinction <sup>10</sup>	1234 5	678	-19	PC			1
Field Sample #	Friability <sup>4</sup>	Sample Color	Pleochroism	Extinction <sup>10</sup>	Pleochroism	<sup>6</sup> Extinction <sup>10</sup>	Pleochroism	E XUNCTION	/					-	
		4							VAE			VAE			* scan
	F or N	Texture <sup>5</sup>	Biref. <sup>9</sup>	Elongation <sup>11</sup>	Biref. <sup>9</sup>	Elongation	Biret. <sup>9</sup>	Elongation <sup>11</sup>	12345	678		PC	122		Asbestos
10B				-		<u>                                      </u>		<u>                                     </u>	VAE		21	VAE	1		Stereo VAE %
					L				VAE				ΙA	Paraantana	
Asbestos-	Containing	Non-4	sbestos	Contair	lind	Δn	alytical	Method:	Specify if diffe	rent		Nonfibrous	Types"	Percentage	τV
	VAE: (Calibrated)										1	Inch	t	Analyst	ł
		22	-	÷					nalysis:		0	1170		Analyst:	a definit
Analytical Me 1. EPA/600/R-93	thods: 1/116 Without Grav		ng scan opti			n in notes b : 1000 Poin		Note: De	minition of asbe	stos conta 7	. Stat	vs. non-astesto e ol New Jersev	s contair DOLAW	ning is based on EPA NESHAP /D Method (38 N.J.R. 2526)	s definition.
	/116 With Gravime	etry		5. PLM NO	08 Chatfield	d Method	Point Cour			8	. CAF	RB 435: ar (specify):			
3. EPA/600/R-93															

RATT		Ron	ch S	had	ŀ									Page 6	of 0	
	ID#:				DM750P (S	Scone #2)		mpus 221810 mpus 240335				2212 (Scop 2293 (Scop			pus 202705 (S	
Livi Ocope		202300 (300	,po #1)	Areica											W REC. 0	
			BLI P	roject #	<u>L36</u>	<u>3524</u>	Nar	ne of Clie	nt/Project		195	0/20N-1		T		
Sample	а Туре <sup>1</sup>	Visual Gross <sup>2</sup>		Sample Color	3	4 Friability	Sample Texture	Morphology <sup>6</sup>	Fiber Color , (in plane light)	Pleochrois	n <sup>8</sup>	9 <u>Bire</u> 1-lo 3-hi	Asbestos 12 Types	Non-Asbestos 13 Types	Optical/Morph. 14 Characteristics	Non-Fibr Types
mperature (°C):			1 black	7 brown	13 orange		1 cementic.	1 wavy				2 medium	1 chrysotile	1 cellulose	1 undulose ext.	1 matrix
isulation heetrock	6 ceiling tile 7 linoleum	1 Homogenous	2 tan 3 gold	8 blue 9 white	14 various 15 other	Friable	2 granular 3 fibrous	2 straight 3 splayed ends	1 clear 2 tan	1 no 2	yes	Extinction 1 parallel	2 amosite 3 crocidolite	2 fiberglass 3 mineral wool	2 isotropic 3 shot	2 binder 3 CaSO4
pofing material	8 floor tile	2 Heterogeneous	1 °	10 red	10 04 61	Nonfriable		4 fiber bundles	3 blue	9	1	2 oblique	4 anthophyllit		4 high birefringend	-
oil	9 mastic/adhesive		5 silver	11 green			5 soft	5 single fibers	4 brown	d yes, give c	olor	Elongation 11	5 tremolite	5 wollastonite	5 mult.elon.(flips)	5 Vermici
int compound	10 plaster	3 Layered	6 gray	12 pink		I	6 paper-like	6 blocky	5 other			+ or -	6 actinolite	other	other	6 other
	Sample Desc Client-Supplied Data	riptions Macroscopic		stos #1 Properties		stos #2 Properties		roperties	% Ashestos Method of Qua		%	Method of Q		On-Asbestos Type	) (13) haracterístics <sup>14</sup>	Analys Notes
.ab Sample #			Morph <sup>6</sup>	nDII	Morph <sup>6</sup>	nD II	Morph <sup>6</sup>	n <sub>D</sub> II	12 4 6			PC		Optiour o	and otomotop	
481683	Sample Type <sup>1</sup>	Visual Gross <sup>2</sup>	Fiber Color <sup>7</sup>	nD T	Fiber Color <sup>7</sup>	n <sub>D</sub> 1	Fiber Color <sup>7</sup>	n <sub>D</sub> T	VAE		-	VAI	E			
		2 1 2 1 3		Extinction <sup>10</sup>	Di	5		Estimation 10	123456	578	1	PC	3P 3.0			1
Field Sample #	Friability <sup>4</sup>	Sample Color <sup>3</sup>	Pleochroism	Exanction	Pleochroism	Extinction	Pieochroism	Extinction	/		_					
		4							VAE		_	VAI				* sca
11A	F or N	Texture <sup>5</sup>	Biref. <sup>9</sup>	Elongation <sup>11</sup>	Biret. <sup>9</sup>	Elongation <sup>11</sup>	Biref. <sup>9</sup>	Elongation <sup>11</sup>	1234 56	578		PC				Asbest
		)							VAE		٦	VAI		1		VAE
			1						1			Nonfib	rous Types	15 Per	eptage	0
sbestos-C	Containing	Non-A	sbestos	-Contair	ning d	An	alytical I	Method:	Mandatiry	_				10	U	<u> </u>
	Sample Desc Client-Supplied Data	riptions Macroscopic		e #1 Properties		oe #2 Properties		e #3 Properties	% Asbes Method A Qua		%	Method of Q		s Non-Asbestos (1	3) haracteristics <sup>14</sup>	Analys Note
.ab Sample #		macroscopic	Morph <sup>6</sup>	nD II	Morph <sup>6</sup>	n <sub>D</sub> II	Morph <sup>6</sup>	nD II	1234		~	PC		Optical C	naracteristics	
481684	Sample Type'	Visual Gross <sup>2</sup>	Fiber Color <sup>7</sup>	n <sub>D</sub> I	Fiber Color <sup>7</sup>	n <sub>D</sub> T	Fiber Color <sup>7</sup>	n <sub>D</sub> ⊥	VAE			VA	E			
				10		8		10	123456	578		PC	100			1
ield Sample #	Friability <sup>4</sup>	Sample Color"	Pleochroism	Extinction "	Pleochroism	Extinction	Pleochroism°	Extinction	/ VAE			VA	E			* sca
11B	F or N	Texture <sup>5</sup>	Biref. <sup>9</sup>	Elongation <sup>11</sup>	Biref.	Elongation <sup>11</sup>	Biref. <sup>9</sup>	Elongation <sup>11</sup>	1234 50	578		PC				Asbes Stere
									VAE			VA		15 24		VAE
Asbestos-C	Containing	Non-A	sbestos	-Contair		An	alytical l	Method:	Specily it lifte	rent		Nontib	rous Types		çentagé	
	Sample Desc	riptions	Тур	e#1	Тур	oe #2	Тур	e#3	% Asbes	tos (12)			% Fibrou	s Non-Asbestos (1	3)	Analys
Lab Sample #	Client-Supplied Data	Macroscopic		Properties nD II		Properties nD II		nD II	Method of Out		%	Method of Q	uant. %	Optical C	haracteristics <sup>14</sup>	Note
481685	Sample Type <sup>1</sup>	Visual Gross <sup>2</sup>	Morph <sup>6</sup> Fiber Color <sup>7</sup>	n <sub>D</sub> ⊥	Morph <sup>6</sup> Fiber Color <sup>7</sup>	n <sub>D</sub> T	Morph <sup>6</sup> Fiber Color <sup>7</sup>	n <sub>D</sub> ⊥	VAE			PC				
		Sample Color <sup>3</sup>	Pleochroism	<sup>8</sup> Extinction <sup>10</sup>	Pleochroism	Extinction <sup>10</sup>	Pleochroism	Extinction <sup>10</sup>	1234 5			PC				-
Teld Sample #	Friability <sup>4</sup>	2							VAE			VA	E			* sca
12A	F or N	Texture <sup>5</sup>	Biref. <sup>9</sup>	Elongation <sup>11</sup>	Biref	Elongation <sup>1</sup>	<sup>1</sup> Birel. <sup>9</sup>	Elongation <sup>11</sup>	1234 5	678		PC				Asbes
		5							VAE			VA				VAE
									a second second			Nonfib	rous Types	<sup>15</sup> Pe	centage	
sbestos-C	Containing		sbestos	a the second as if			alytical		Specify if diffe					10		L Archu
	Sample Desc Client-Supplied Data	Macroscopic		pe#1 Properties		pe #2 Properties		e#3 Properties	% Asbes	tos (12) ant.	%	Method of Q		is Non-Asbestos ( Ontical C	(3) haracteristics <sup>14</sup>	Analy: Note
Lab Sample #			Morph <sup>6</sup>	n <sub>D II</sub>	Morph <sup>6</sup>	n <sub>D</sub> II	Morph <sup>6</sup>	<sup>n</sup> D II	12 45			PC	. E	opioure		
481686	Sample Type	Visual Gross <sup>2</sup>	Fiber Color <sup>7</sup>	n <sub>D</sub> ⊥	Fiber Color	n <sub>D</sub> 1	Fiber Color <sup>7</sup>	n <sub>D</sub> ⊥	VAE			VA	E	1		
		Sample Color <sup>3</sup>	Pleachroism	<sup>8</sup> Extinction <sup>10</sup>	Pleochroisn	8 Extinction <sup>10</sup>	Pleochroism	<sup>8</sup> Extinction <sup>10</sup>	12345	678		PC				
Field Sample #	Friability <sup>4</sup>	2	PROGRAM	CAUNGUON	Preddinoral	EABIGOUT	Protoriotan	LAUROIDI	VAE			VA	E	-		* sca
	ForN	Texture <sup>5</sup>	Biref. <sup>9</sup>	Elongation	Bire1.9	Elongation	1 Biref. <sup>9</sup>	Elongation <sup>11</sup>	1234 5	678		PC				Asbes
	I OF IN	TOTALA	ondi.	c.iviiga0011	Ontel.	C-MIGGROUP	Direl.	en gauli	/				_	-		Stere
12B		٤ .			n l	1			VAE			V/		15 ¢ Do		VAE
12B		5	Į									<ul> <li>I Monfile</li> </ul>				. /
	Containing	Non-4	sbestos	Contair	nina o	Ar	alytical	Method:	Specity if diffe	rent		Norm	rous Types	10	çentage	7,0
sbestos-(	Containing		Asbestos Estimate (in		0	Ar	nalytical				4		Trous Types	10	centage	10
sbestos-(	VAE: (Calibrated)	Visual Area E		Weight Per	cent)		C	Date of A	nalysis:	(		9	24	Analyst:	on EPA NESHA	Ps defini

		_			_											
BATT	A PLM	Ben	ch S	hee	t			mpus 221810	(Scope #3)		Nikon 2	22212 (Sco	oe #5)	Page 7 of	9	
PLM Scope	ID#: 🗖 Nikon	1 202306 (Sc	ope #1)	Leica	DM750P (S	Scope #2)	Oly	mpus 240335	(Scope #4)		Nikon 1	02293 (Sco	pe #6)	Olympu	s 202705 (Sco	ope #7)
			BLI P	roject #	<u>L36</u>	3524	Nar	ne of Clie	nt/Project	t:	<u>1093</u>	3723K-	HAPPY	HOLLOW	REC. C	ENTE
Sample	le Type <sup>1</sup>	2 Visual Gross		Sample Color	3	4 Friability	Sample Texture	6 Morphology	Fiber Color (in plane light)	Pleoch	8 nroism	9 <u>Bire</u> 1-lo 3-hi	Asbestos 12 Types	13	Optical/Morph. 14 naracterístics	Non-Fibro Types
emperature (°C):			1 black	7 brown	13 orange		1 cementic.	1 wavy				2 medium	1 chrysotile		ndulose ext.	1 matrix
insulation sheetrock	6 ceiling tile 7 linoleum	1 Homogenous	2 tan 3 gold	8 blue 9 white	14 various 15 other	Friable	2 granular 3 librous	2 straight 3 splayed ends	1 clear 2 tan	1 по	2 yes	Extinction 1 parallel	2 amosite 3 crocidolite	2 tiberglass 2 is 3 mineral wool 3 s	iotropic hot	2 binder 3 CaSO4
roofing material	8 floor tile	2 Heterogeneou	1 ·	10 red		Nontriable	1	4 fiber bundles	3 blue			2 oblique	4 anthophyllite	4 synthetic fiber 4 h	igh birefringence	4 CaCO <sub>2</sub>
soil joint compound	9 mastic/adhesive 10 plaster	3 Layered	5 silver 6 gray	11 green 12 pink			5 soft 6 paper-like	5 single fibers 6 blocky	4 brown 5 other/	d yes, g	ave calor	11 Elongation + or -	5 tremolite 6 actinolite	5 wollastonite 5 m other oth		5 Vermicul 6 other
	Sample Desc	Van - 2	1	stos #1	Asbes	stos #2	Asbes	tos #3	% Aspestos	Type (12	2)		% Fibrous No	n-Asbestos Type (13		Analyst
Lab Sample #	Client-Supplied Data	Macroscopic	Optical F	roperties	Optical F	roperties	Optical F	roperties	Method of Qua	ant,	%	Method of C		Optical Chara		Notes
	Sample Type <sup>1</sup>	Visual Gross <sup>2</sup>	Morph <sup>6</sup>	n <sub>D</sub> II	Morph <sup>6</sup>	<sup>n</sup> D II	Morph <sup>6</sup>	<sup>n</sup> D II	1284 96	578		PC				
1481687	9		Fiber Color <sup>7</sup>	n <sub>D</sub> ⊥	Fiber Color <sup>7</sup>	n <sub>D</sub> T	Fiber Color <sup>7</sup>	пDТ	VAE			VA	E			
Field Sample #	Friability <sup>4</sup>	Sample Color <sup>3</sup>	Pleochroism <sup>8</sup>	Extinction <sup>10</sup>	Pleochroisn	Extinction <sup>10</sup>	Pleochroism <sup>8</sup>	Extinction <sup>10</sup>	1234 56	578		PC				
		2							VAE 1234 56			VA	E			* sca
13A	F or N	Texture <sup>5</sup>	Biref. <sup>9</sup>	Elongation	Biret. <sup>9</sup>	Elongation	Biref. <sup>9</sup>	Elongation <sup>11</sup>	123430	076		PC				Asbest Stere
				1					VAE			VA	E ,			VAE 9
Ashantan (	Containing D	Non	sbestos	Contair	ain a	Δ.	alytical l	lethod:	Mandator		<u>, 1</u>	Nonfit	rous Types"	5 Percen	lage	0
45Desi05-0	Sample Desc	The second s		e#1		2/2		e #3	% Asbes	tos (12)				Non-Asbestos (13)		Analyst
Lab Sample #	Client-Supplied Data			roperties		roperties	Optical F	roperties	Method bl-Qua	ant.	%	Method of C		Optical Chara	cteristics14	Notes
	Sample Type <sup>1</sup>	Visual Gross <sup>2</sup>	Morph <sup>6</sup>		Morph <sup>6</sup>		Morph <sup>6</sup>	n <sub>D II</sub>	1230 10	578		PC				
1481688	9		Fiber Color'	n <sub>D</sub> ⊥	Fiber Color'	nD⊤	Fiber Color'	10 -	VAE			VA	E			
Field Sample #	Friability <sup>4</sup>	Sample Color	<sup>8</sup> Pleochroism <sup>8</sup>	Extinction <sup>10</sup>	Pleochroism	Extinction <sup>10</sup>	Pleochroism <sup>8</sup>	Extinction <sup>10</sup>	1			PC		4	-	
		$\left  - \zeta \right $		ļ	9			11	1234 5 6		1.3.8.7	PC				* SCA Asbest
13B	ForN	Texture <sup>5</sup>	Biref. <sup>9</sup>	Elongation	Biret <sup>9</sup>	Elongation <sup>1</sup>	Birel. <sup>9</sup>	Elongation <sup>11</sup>	/ /			VA	E	-		Stere VAE 2
A a haadaa a				Contrain				l l		/	i	Nonfit	orous Types <sup>1</sup>	5 Percer	ntage	1
ASDESTOS-U	Containing  Sample Desc		sbestos	e #1		An e #2	alytical I		Specify it rive	tos (12)			% Fibrour	Non-Asbestos (13)		Analys
Lab Sample #	Client-Supplied Data	Macroscopic		Properties		Properties		Properties	Method of Qua		%	Method of C		Optical Chara	cteristics <sup>14</sup>	Notes
Cab Gampio #	Sample Type <sup>1</sup>	Visual Gross <sup>2</sup>	Morph <sup>6</sup>	n <sub>D II</sub>	Morph <sup>6</sup>	n <sub>D</sub> II	Morph <sup>6</sup>	n <sub>D</sub> II	1234 9	678		PC				
1481689	flue		Fiber Color <sup>7</sup>	n <sub>D</sub> T	Fiber Color <sup>7</sup>	nD⊤	Fiber Color <sup>7</sup>	nD⊤	VAE			VA	E			
Field Sample #	Friability <sup>4</sup>	Sample Color	<sup>3</sup> Pleochroism <sup>6</sup>	Extinction <sup>10</sup>	Pieochroism	Extinction <sup>10</sup>	Pleochroism	Extinction <sup>10</sup>	1234 50	678		PC				
-		14							VAE			VA	E			* sca
14A	ForN	Texture <sup>5</sup>	Biref. <sup>9</sup>	Elongation <sup>11</sup>	Biref. <sup>9</sup>	Elongation <sup>1</sup>	<sup>1</sup> Biref. <sup>9</sup>	Elongation <sup>11</sup>	1			PC		-	0	Asbest Stere
		-1			111		1		VAE		1	V/	E prous Types	5 Percer	tége	VAE
Asbestos-	Containing	Non-A	Sbestos	-Contai			nalytical	Method:	Specify if diffe	rent				, 100		
	Sample Deso Client-Supplied Data			e #1 Properties	Ty	pe #2 Properties		e #3 Properties	% Asbes		%	Method of 0		s Non-Asbestos (13)		Analys Note
Lab Sample #	Client-Suppled Data	Macroscopic	Morph <sup>6</sup>	nD II	Morph <sup>6</sup>	nD II	Morph <sup>6</sup>	nD II	12345		70	PC	жин. 7 <sub>6</sub>	Optical Chara	actenstics	, toto.
1481690	Sapple Type'	Visual Gross <sup>2</sup>	Fiber Color	_ nD ⊤	Fiber Color <sup>7</sup>	_ ⊓D ⊤	Fiber Color <sup>7</sup>	np⊥	VAE	:		V	Æ			
		Sample Color	<sup>3</sup> Pleochroism	<sup>8</sup> Extinction <sup>10</sup>	Pleochroism	B Extinction <sup>10</sup>	Pleochroism	Extinction <sup>10</sup>	12345	678		PC				
Field Sample #	Frlability <sup>4</sup>	14							VAE			V/	Æ			* sca
	4	Texture <sup>5</sup>	Birel. <sup>9</sup>	Elongation	1 Biref. <sup>9</sup>	Elongation <sup>1</sup>	<sup>1</sup> Biref. <sup>9</sup>	Elongation <sup>11</sup>	1234 5	678		PC				Asbes
	F or N	Texture		1	+	+	+	H	VAE		1	V/	AE .	1		Stere VAE
14B	F or N	4					1	10	VAC				· · ·			
		4										Nonfi	prous Types	15 Pepee	ntage	
Asbestos-	Containing □	Non-/	Asbestos	and a second	V	Ar	nalytical		Specity if diffe		]	Nonfil (i)		10	ntage	l
Asbestos-	Containing	Non-J Visual Area	Estimate (in	Weight Per	rcent)			Date of A	Specity if diffe	Iren	] U	424	prous Types	Analyst:	11	Ps definit
Asbestos- C: Point Count nalytical Me EPA/600/R-93	Containing	Non-J Visual Area I • If usi vimetry		Weight Per ion for ELAF 4. EPA/60	rcent)	n in notes t : 1000 Poin	Diock.	Date of A	Specity if diffe	Iren	7. Stat	424 vs. non-ast	prous Types	10		Ps definit

				hee	[			mpus 221810	(Scope #3)	Nikor	1 2222	12 (Scope	ə #5)	Page 8 d	of 9	
M Scope	ID#: 🗆 Nikon	1 202306 (Sco	ope #1)	Leica	DM750P (S	Scope #2)		mpus 240335	(Scope #4)	Nikor	1022	93 (Scope	∋ #6)	Olymp	ous 202705 (Sc	ope #7)
			BLI P	roject #	L363	3524	Nar	me of Clie	ent/Project:	<u>10</u>	<u>937</u>	<u>23K-F</u>	APPY	HOLLOV	V REC. C	ENTE
Samp	е Туре	Visual Gross <sup>2</sup>		Sample Color	3	Friability <sup>4</sup>	Sample 5 Texture	6 Morphology	7 Fiber Color (in plane tight)	Pleochroism		9 <u>Bire</u> o 3-hi	Asbestos 12 Types	Non-Asbestos Types	Optical/Morph 14 Characteristics	Non-Fibrous 15 Types
nperature (°C):			1 black	7 brown	13 orange		1 cementic	1 wavy			_	medium 1	chrysotile		1 undulose ext.	1 matrix
ulation	6 ceiling tile	1 Homogenous	2 tan	8 blue	14 various	Friable	2 granular	2 straight	1 1	Ino 2 ye		inction <sup>10</sup> 2	amosite		2 isotropic	2 binder
eetrock ofing material	7 linoleum 8 floor tile	2 Heterogeneous	3 gold	9 white 10 red	15 other	or Nontriable	3 fibrous 4 firm	3 splayed ends 4 fiber bundles	2 tan 3 blue		1	parallel 3 oblique 4	crocidolite anthophyllite		3 shot 4 high birefringence	3 CaSO <sub>4</sub>
xil	9 mastic/adhesive	2 Treterogeneou	5 silver			THORNHADIE	5 soft	5 single fibers	4 brown	il ves, aive col		11	tremolite		5 mult elon (flips)	5 Vermiculite
ni int compound		3 Layered	6 gray	11 green 12 pink				6 blocky	5 other	n yes, give coi			actinolite	<u> </u>	other	6 other
	Sample Desc	riptions	Asbes	tos #1	Asbes	tos #2	Asbes	stos #3	% Asbestos T	ype (12)			% Fibrous No	n-Asbestos Type (	(13)	Analyst's
.ab Sample #	Client-Supplied Data	Macroscopic	Optical P	· ·	Optical P	· · · · · · · · · · · · · · · · · · ·		Properties	Method A Quan		Me	thod of Qu	ant. %	Optical Cha	aracteristics <sup>14</sup>	Notes
	Sample Type <sup>1</sup>	Visual Grpss <sup>2</sup>	Morph <sup>6</sup>	n <sub>D</sub> II	Morph <sup>6</sup>	n <sub>D</sub> II	Morph <sup>6</sup>	<sup>n</sup> D II	1234 6	78		PC				
481691	Clare		Fiber Color <sup>7</sup>	n <sub>D</sub> ⊥	Fiber Color <sup>7</sup>	'n <sub>D</sub> ⊥	Fiber Color <sup>7</sup>	nD T	VAE			VAE		1		
	020-000	Sample Color <sup>3</sup>	Pleochroism <sup>8</sup>	Extinction <sup>10</sup>	Pleochroism <sup>8</sup>	Extinction <sup>10</sup>	Pleochroism <sup>8</sup>	Extinction <sup>10</sup>	1234 567	78		PC	되기기			
ield Sample #	Friability <sup>4</sup>	Ci				1			VAE		-	VAE		1		
						<b>/</b>		- 8	1234 56		-	VAE				* scan
15A	ForN	Texture <sup>5</sup>	Biref.9	Elongation <sup>11</sup>	Bire1.9	Elongation <sup>11</sup>	Biref. <sup>9</sup>	Elongation <sup>11</sup>	1234 30			PC	1			Asbestos Stereo
ISA		11			. /				VAE			VAE		1		VIAE %
											-	Nonfibro	ous Types <sup>15</sup>	Perce	enjage	0
sbestos-	Containing 🗆	Non-A	sbestos	-Contair	ning p/	An	alytical I	Method:	Manda ory				ų	10	<i>v</i>	
	Sample Desc			e #1		e #2		e#3	% Asbesto		T			Non-Asbestos (13)		Analyst's
Lab Sample #	Client-Supplied Data	Macroscopic	Optical F Morph <sup>6</sup>	roperties	<ul> <li>Optical F</li> <li>Morph<sup>6</sup></li> </ul>	Properties In D II	Optical P Morph <sup>6</sup>	Properties	Method of Quan		Me	thod of Qu	ant. %	Optical Cha	aracterístics <sup>14</sup>	Notes
	Sample Type <sup>1</sup>	Visual Gross <sup>2</sup>			Morph		Morph		4			PC				
481692	10 Slin		Fiber Color <sup>7</sup>	n <sub>D</sub> ⊥	Fiber Color <sup>7</sup>	n <sub>D</sub> ⊥	Fiber Color <sup>7</sup>	n <sub>D</sub> T	VAE 1234 567			VAE	:			lay
Field Sample #	Friability <sup>4</sup>	Sample Color <sup>3</sup>	Pleochroism <sup>8</sup>	Extinction <sup>10</sup>	Pleochroism <sup>8</sup>	Extinction <sup>10</sup>	Pleochroism <sup>8</sup>	Extinction <sup>10</sup>	1		_	PC				19
						<u> </u>			VAE			VAE				* scan
16A	F or N	Texture <sup>5</sup>	Biref.9	Elongation <sup>11</sup>	Bire1.9	Elongation	Biref. <sup>9</sup>	Elongation <sup>11</sup>	1234 56	/8		PC				Asbestos Stereo
		4			$\square$				VAE			VAE				VAE %
Asbestos-	Containing	Non-A	sbestos	-Contair	ning\_	An	alytical l	Method:	Specify it/differe	nl		Nonfibr	ous Types <sup>15</sup>	Perce	enjage	0
	Sample Desc	riptions	Тур	e #1	Тур	0.62							A/ Pilanus	1 1-		
Lab Sample #	Client-Supplied Data					0 #2	I I YP	e#3	% Asbesto	s (12)	T		% Fibrous	Non-Asbestos (13)	)	Analyst's
	Cilenti-Supplied Data	Macroscopic	Optical F	roperties		roperties		Properties	Metho of Quar	nt. %	, M	athod of Qu		-	) aracteristics <sup>14</sup>	Analyst's Notes
			Optical F Morph <sup>6</sup>	roperties nD II						nt. %	M	PC	-	-		
1481693	Sample Type <sup>1</sup>	Macroscopic Visual Gross <sup>2</sup>	· · · · ·		Optical F	roperties	Optical F	Properties	Method of Quar	nt. %	. M	PC	ant. %	-		
1481693		Visual Gross <sup>2</sup>	Morph <sup>6</sup> Fiber Color <sup>7</sup>	n <sub>D</sub> II n <sub>D</sub> L	Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup>	nD II	Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup>	nD II nD II nD L	Metho of Quar	nt. % 78	M	PC VAE	ant. %	-		Notes
	Sample Type <sup>1</sup>	Visual Gross <sup>2</sup> Sample Color	Morph <sup>6</sup>	n <sub>D</sub> II n <sub>D</sub> L	Optical F Morph <sup>6</sup>	Properties <sup>n</sup> D II n <sub>D</sub> ⊥	Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup>	nD II nD II nD L	Methos of Duar 1234 36 VAE 1234 56	nt. % 78	- M	PC VAE PC	ant. %	-		
1481693 Field Sample #	Sample Type <sup>1</sup>	Visual Gross <sup>2</sup>	Morph <sup>6</sup> Fiber Color <sup>7</sup>	n <sub>D</sub> II n <sub>D</sub> L	Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup>	nD II	Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup>	nD II nD II nD L	Methoson Duar 1234 36 VAE 1234 56 / VAE	78	, M	PC VAE	ant. %	-		Notes
Field Sample #	Sample Type <sup>1</sup>	Visual Gross <sup>2</sup> Sample Color	Morph <sup>6</sup> Fiber Color <sup>7</sup>	n <sub>D</sub> II n <sub>D</sub> L	Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup>	nD II	Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup>	nD II nD II nD L	Methos of Duar 1234 36 VAE 1234 56	78	, M	PC VAE PC	ant. %	-		Notes
	Sample Type <sup>1</sup>	Visual Gross <sup>2</sup> Sample Color	Morph <sup>6</sup> Fiber Color <sup>7</sup> Pleochroism <sup>8</sup>	nD II nD I Extinction <sup>10</sup>	Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup> Pleochroism <sup>8</sup>	Properties <sup>n</sup> D II n <sub>D</sub> I Extinction <sup>10</sup>	Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup> Pleochroism <sup>8</sup>	nD II nD J Extinction <sup>10</sup>	Methoson Duar 1234 36 VAE 1234 56 / VAE	78	- M4	PC VAE PC VAE	ant. %	-		Notes
Field Sample #	Sample Type <sup>1</sup>	Visual Gross <sup>2</sup> Sample Color G Texture <sup>5</sup>	Morph <sup>6</sup> Fiber Color <sup>7</sup> Pleochroism <sup>8</sup> Birel. <sup>9</sup>	nD II nD L Extinction <sup>10</sup>	Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup> Pleochroism <sup>6</sup> Biref. <sup>9</sup>	Properties TD II TD I	Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup> Pleochroism <sup>8</sup> Biret. <sup>9</sup>	Properties nD    nD ⊥ A Extinction <sup>10</sup> Elongation <sup>11</sup>	Methof of Quar 1234 96 VAE 1234 56 / VAE 1234 56 / VAE 1234 56 / VAE	78 78 78	- Me	PC VAE PC VAE PC VAE	ant. %	Optical Che		Notes
Field Sample #	Sample Type <sup>1</sup>	Visual Gross <sup>2</sup> Sample Color Texture <sup>5</sup> Q Non-A	Morph <sup>6</sup> Fiber Cotor <sup>7</sup> Pleochroism <sup>8</sup> Biref. <sup>9</sup>	nD II nD I Extinction <sup>10</sup> Elongation <sup>11</sup>	Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup> Pleochroism <sup>6</sup> Biref. <sup>9</sup>	Properties	Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup> Pleochroism <sup>6</sup> Biref. <sup>9</sup>	Properties nD II nD ⊥ Extinction <sup>10</sup> Elongation <sup>11</sup> Method:	Methof of Duar 1234 36 VAE 1234 56 / VAE 1234 56 / VAE Specify if difference	nt 1	, Me	PC VAE PC VAE PC VAE	ant. %	Optical Che	entage	Notes Aufor Asbestos Stereo VAE%
Field Sample # 16B Asbestos-	Sample Type <sup>1</sup>	Visual Gross <sup>2</sup> Sample Color Texture <sup>5</sup> U Non-A	Morph <sup>6</sup> Fiber Color <sup>7</sup> Pleochroism <sup>6</sup> Biref. <sup>9</sup>	nD II nD L Extinction <sup>10</sup> Elongation <sup>11</sup>	Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup> Pleochroksm <sup>6</sup> Biref. <sup>9</sup>	Properties	Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup> Pleochroism <sup>1</sup> Biret. <sup>9</sup>	Properties	Methof of Quar 1234 56 VAE 1234 56 / VAE 1234 56 / VAE Specify if differe % Asbesto	nt. %		PC VAE PC VAE Nonfibr	ant. %	Optical Che	entage	Notes
Field Sample #	Sample Type <sup>1</sup>	Visual Gross <sup>2</sup> Sample Color Texture <sup>5</sup> Q Non-A	Morph <sup>6</sup> Fiber Color <sup>7</sup> Pleochroism <sup>6</sup> Biref. <sup>9</sup>	nD II nD I Extinction <sup>10</sup> Elongation <sup>11</sup>	Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup> Pleochroksm <sup>6</sup> Biref. <sup>9</sup>	Properties	Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup> Pleochroism <sup>1</sup> Biret. <sup>9</sup>	Properties nD II nD ⊥ Extinction <sup>10</sup> Elongation <sup>11</sup> Method:	Methof of Duar 1234 36 VAE 1234 56 / VAE 1234 56 / VAE Specify if difference	nt. %		PC VAE PC VAE PC VAE Nonfibr	ant. %	Optical Che	entage	Notes Asbestos Stereo VAE% Analyst's
Field Sample # 16B Asbestos-	Sample Type <sup>1</sup>	Visual Gross <sup>2</sup> Sample Color Texture <sup>5</sup> U Non-A	Morph <sup>6</sup> Fiber Color <sup>7</sup> Pleochroism <sup>6</sup> Biref. <sup>9</sup> Sbestos Typ Optical F	In D II In D II Extinction <sup>10</sup> Elongation <sup>11</sup> Contain e #1 Properties	Optical F Morph <sup>®</sup> Fiber Color <sup>7</sup> Pleochroism <sup>®</sup> Biref. <sup>9</sup> Ning D Vyp Optical F	Properties	Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup> Pleochroism <sup>1</sup> Biret. <sup>9</sup> Biret. <sup>9</sup>	Properties	Methof of Quar 1234 56 VAE 1234 56 / VAE 1234 56 / VAE Specify if differe % Asbesto	nt. %		PC VAE PC VAE Nonfibr	Ant. %	Optical Che	entage	Notes Asbestos Stereo VAE% Analyst's Notes
Field Sample # 16B Asbestos- Lab Sample #	Sample Type <sup>1</sup>	Visual Gross <sup>2</sup> Sample Color Texture <sup>5</sup> U Non-A riptions Macroscopic Visual Gross <sup>2</sup>	Morph <sup>6</sup> Fiber Color <sup>7</sup> Pleochroism <sup>6</sup> Biref. <sup>9</sup> Sbestos Typ Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup>	np ll           np l           Extinction 10           Econgation 11           e #1           Properties           np ll           np ll	Opfical F Morph <sup>6</sup> Fiber Color <sup>7</sup> Pleochroism <sup>6</sup> Biref. <sup>9</sup> Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup>	Properties         II           nD II         II           nD II         II           ND II         III           Extinction <sup>10</sup> III           Etongation <sup>11</sup> III           Properties         ND II           ND II         III	Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup> Pieochroism <sup>6</sup> Biref. <sup>9</sup> Biref. <sup>9</sup> Biref. <sup>9</sup> Typ Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup>	Properties	Wethol of Duar           1234 56           VAE           1234 56           /           VAE           1234 56           /           VAE           1234 56           /           VAE           Specify if differe           % Asbesto           Method Quar           1234 6	nt. %		PC VAE PC VAE PC VAE Nonfibr	Ant. %	Optical Che	entage	Notes Asbestos Stereo VAE% Analyst's Notes
Field Sample # 16B Asbestos- Lab Sample #	Sample Type <sup>1</sup>	Visual Gross <sup>2</sup> Sample Color Texture <sup>5</sup> U Non-A riptions	Morph <sup>6</sup> Fiber Color <sup>7</sup> Pleochroism <sup>6</sup> Biref. <sup>9</sup> Sbestos	To II  To I  Extinction <sup>10</sup> Elongation <sup>11</sup> Contail  o #1  Toporties  To II	Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup> Pleochroism <sup>6</sup> Biref. <sup>9</sup> Biref. <sup>9</sup> Optical F Morph <sup>6</sup>	Properties	Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup> Pleochroism <sup>6</sup> Biref. <sup>9</sup> Biref. <sup>9</sup> allytical Typ Optical F Morph <sup>6</sup>	Properties	Method of Ouar           123436           VAE           123456           /           VAE           123456           /           VAE           123456           /           VAE           Specify if differe           % Asbesto           Method of Ouar           123456           VAE	nt. %		PC VAE PC VAE PC VAE Nonfibr	ant. %	Optical Che	entage	Notes Analyst's Notes
Field Sample # 16B Asbestos- Lab Sample # 1481694	Sample Type <sup>1</sup> Friability <sup>4</sup> F or N Containing Sample Desc Client-Supplied Data Sample Type <sup>1</sup> Sample Type <sup>1</sup> Friability <sup>4</sup>	Visual Gross <sup>2</sup> Sample Color Texture <sup>5</sup> Won-A Macroscopic Visual Gross <sup>2</sup> Sample Color	Morph <sup>6</sup> Fiber Color <sup>7</sup> Pleochroism <sup>6</sup> Birel. <sup>9</sup> Sbestos Typ Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup> Pleochroism <sup>6</sup>	nD II nD ⊥ Extinction <sup>10</sup> Elongation <sup>11</sup> Contail e #1 nD ⊥ nD ⊥ nD ⊥ Elongation <sup>11</sup> Elongation <sup>11</sup>	Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup> Pieochroism <sup>6</sup> Biref. <sup>9</sup> Biref. <sup>9</sup> Dital F Pieochroism <sup>6</sup> Fiber Color <sup>7</sup> Pieochroism <sup>6</sup>	Properties         II           nD II         nD II           nD I         II           Particular         II           Extinction <sup>10</sup> III           Etongation <sup>11</sup> III           Properties         nD II           ND II         III           InD II         III	Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup> Pleochroism <sup>6</sup> Biref. <sup>9</sup> Biref. <sup>9</sup> Biref. <sup>9</sup> Coptical F Morph <sup>6</sup> Fiber Color <sup>7</sup> Fiber Color <sup>7</sup>	Properties  Properties  ND II  ND I  ND I  Extinction <sup>10</sup> Elongation <sup>11</sup> Elongation <sup>10</sup> Elongati	Method of Ouar           1234 36           VAE           1234 56           /           VAE           1234 56           /           VAE           Specify if differe           % Asbesto           Method to Quar           1234 56           /           VAE           Specify if differe           1234 56           VAE           1234 56           VAE	nt.         %           78         78           78         78           78         78           78         78           78         78           78         78           78         78           78         78           78         78		PC VAE PC VAE PC VAE Nonfibr	ant. %	Optical Che	entage	Notes Asbestor Stereo VAE% Analyst's Notes
Field Sample # 16B Asbestos- Lab Sample # \$481694	Sample Type <sup>1</sup>	Visual Gross <sup>2</sup> Sample Color Texture <sup>5</sup> U Non-A riptions Macroscopic Visual Gross <sup>2</sup>	Morph <sup>6</sup> Fiber Color <sup>7</sup> Pleochroism <sup>6</sup> Biref. <sup>9</sup> Sbestos Typ Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup>	np ll           np l           Extinction 10           Econgation 11           e #1           Properties           np ll           np ll	Opfical F Morph <sup>6</sup> Fiber Color <sup>7</sup> Pleochroism <sup>6</sup> Biref. <sup>9</sup> Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup>	Properties         II           nD II         II           nD II         II           ND II         III           Extinction <sup>10</sup> III           Etongation <sup>11</sup> III           Properties         ND II           ND II         III	Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup> Pieochroism <sup>6</sup> Biref. <sup>9</sup> Biref. <sup>9</sup> Biref. <sup>9</sup> Typ Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup>	Properties	Methof of Ouar           1234 36           VAE           1234 56           /           VAE           1234 56           /           VAE           Specify if differe           % Asbesto           Methodo Quar           1234 56           /           VAE           Specify if differe           1234 56           /           VAE           1234 56           /           VAE	nt.         %           78         78           78         78           78         78           78         78           78         78           78         78           78         78           78         78           78         78		PC VAE PC VAE PC Nonfibr	ant. %	Optical Che	entage	Notes Autor Asbestos Stereo VAE% Analyst's Notes Analyst's Notes Analyst's Notes Asbestos Stereo
Field Sample # 16B Asbestos- Lab Sample # 1481694 Field Sample #	Sample Type <sup>1</sup> Friability <sup>4</sup> F or N Containing Sample Desc Client-Supplied Data Sample Type <sup>1</sup> Sample Type <sup>1</sup> Friability <sup>4</sup>	Visual Gross <sup>2</sup> Sample Color Texture <sup>5</sup> Won-A Macroscopic Visual Gross <sup>2</sup> Sample Color	Morph <sup>6</sup> Fiber Color <sup>7</sup> Pleochroism <sup>6</sup> Birel. <sup>9</sup> Sbestos Typ Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup> Pleochroism <sup>6</sup>	nD II nD ⊥ Extinction <sup>10</sup> Elongation <sup>11</sup> Contail e #1 nD ⊥ nD ⊥ nD ⊥ Elongation <sup>11</sup> Elongation <sup>11</sup>	Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup> Pieochroism <sup>6</sup> Biref. <sup>9</sup> Biref. <sup>9</sup> Dital F Pieochroism <sup>6</sup> Fiber Color <sup>7</sup> Pieochroism <sup>6</sup>	Properties         II           nD II         nD II           nD I         II           Particular         II           Extinction <sup>10</sup> III           Etongation <sup>11</sup> III           Properties         nD II           ND II         III           InD II         III	Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup> Pleochroism <sup>6</sup> Biref. <sup>9</sup> Biref. <sup>9</sup> Biref. <sup>9</sup> Coptical F Morph <sup>6</sup> Fiber Color <sup>7</sup> Fiber Color <sup>7</sup>	Properties  Properties  ND II  ND I  ND I  Extinction <sup>10</sup> Elongation <sup>11</sup> Elongation <sup>10</sup> Elongati	Methof of Ouar           1234 36           VAE           1234 56           /           VAE           1234 56           /           VAE           Specify if differe           % Asbesto           Methodo Quar           1234 56           /           VAE           Specify if differe           1234 56           /           VAE           1234 56           /           VAE	nt.         %           78         78           78         78           78         78           78         78           78         78           78         78           78         78           78         78           78         78		PC VAE PC VAE PC VAE Nonfibr	ant.     %	Optical Che	entage	Notes
Tield Sample # 16B Asbestos- Lab Sample # 1481694 Field Sample # 16C	Sample Type <sup>1</sup> Friability <sup>4</sup> F or N Containing Sample Desc Client-Suppled Data Sample Type <sup>1</sup> Friability <sup>4</sup> Friability <sup>4</sup> F or N	Visual Gross <sup>2</sup> Sample Color <sup>3</sup> Texture <sup>5</sup> Won-A Siptions Macroscopic Visual Gross <sup>2</sup> Sample Color <sup>3</sup> Texture <sup>5</sup>	Morph <sup>6</sup> Fiber Color <sup>7</sup> Pleochroism <sup>6</sup> Birel. <sup>9</sup> Sbestos Typ Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup> Pleochroism <sup>6</sup> Birel. <sup>9</sup>	The set of	Optical F Morph <sup>®</sup> Fiber Color <sup>7</sup> Pleochroism <sup>®</sup> Biref. <sup>9</sup> Optical F Morph <sup>®</sup> Fiber Color <sup>7</sup> Pleochroism <sup>®</sup> Biref. <sup>9</sup>	Properties         Properties           nD II         nD II           nD I         III           Particular         III           Extinction <sup>10</sup> III           For parties         nD II           InD II         III           InD II         III           InD II         III           InD III         III	Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup> Pleochroism <sup>6</sup> Biret. <sup>9</sup> Biret. <sup>9</sup> Coptical F Morph <sup>6</sup> Fiber Color <sup>7</sup> Pleochroism <sup>6</sup> Biret. <sup>9</sup>	Properties	Methof of Ouar           1234 36           VAE           1234 56           /           VAE           1234 56           /           VAE           Specify if differe           % Asbesto           Methods Ouar           1234 56           /           VAE	nt.     %       78     78       78     78       78     78       78     78       78     78       78     78       78     78       78     78       78     78		PC VAE PC VAE PC VAE Nonfibr PC VAE PC VAE	ant.     %	Optical Che	entage	Notes
Field Sample # 16B Asbestos- Lab Sample # \$481694 Field Sample # 16C Asbestos-	Sample Type <sup>1</sup> Friability <sup>4</sup> F or N Containing Sample Desc Client-Suppled Data Sample Type <sup>1</sup> Friability <sup>4</sup> F or N Containing	Visual Gross <sup>2</sup> Sample Color Texture <sup>5</sup> Macroscopic Visual Gross <sup>2</sup> Sample Color Texture <sup>5</sup>	Morph <sup>6</sup> Fiber Color <sup>7</sup> Pieochroism <sup>6</sup> Birel. <sup>9</sup> Sbestos Typ Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup> Birel. <sup>9</sup> Sbestos	To II  To I  Extinction <sup>10</sup> Elongation <sup>11</sup> Contain  Elongation <sup>11</sup> Elongation <sup>12</sup> Econgation <sup>12</sup> Econgation <sup>13</sup> Econgation <sup>13</sup> Contain	Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup> Pieochroism <sup>6</sup> Biref. <sup>9</sup> Optical F Hoochroism <sup>6</sup> Fiber Color <sup>7</sup> Fiber Color <sup>7</sup> Pieochroism <sup>6</sup>	Properties         Properties           nD II         nD II           nD I         III           Particular         III           Extinction <sup>10</sup> III           For parties         nD II           InD II         III           InD II         III           InD II         III           InD III         III	Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup> Pleochroism <sup>1</sup> Biref. <sup>9</sup> Biref. <sup>9</sup> Fiber Color Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup> Pleochroism <sup>1</sup> Fiber Color Biref. <sup>9</sup>	Properties □ □ □ □ □ □ □ ■ Extinction <sup>10</sup> Elongation <sup>11</sup> ■ Elongation <sup>11</sup> □ □ ■ Elongation <sup>11</sup> ■ Etinction <sup>10</sup> ■ Etinction <sup>10</sup> ■ Etinction <sup>10</sup> ■ Etinction <sup>10</sup> ■ Etinction <sup>11</sup> ■ Etinction <sup>11</sup> ■ Etinction <sup>11</sup> ■ Etinction <sup>11</sup>	Methof of Ouar           1234 36           VAE           1234 56           /           VAE           1234 56           /           VAE           Specify if differe           % Asbesto           Method Clar           1234 56           /           VAE           Specify if differe           1234 56           /           VAE           Specify if differe	nt.     %       78     78       78     78       78     78       78     78       78     78       78     78       78     78       78     78       78     78		PC VAE PC VAE PC VAE Nonfibr PC VAE PC VAE	Ant. %	Optical Che	entage	Notes Autors Asbestos Stereo VAE% Analyst's Notes Analyst's Notes Analyst's Notes Asbestos Stereo
iekd Sample # 16B sbestos- Lab Sample # 1481694 iekd Sample # 16C sbestos-	Sample Type <sup>1</sup> Friability <sup>4</sup> F or N Containing Sample Desc Client-Suppled Data Sample Type <sup>1</sup> Friability <sup>4</sup> Friability <sup>4</sup> F or N	Visual Gross <sup>2</sup> Sample Color Texture <sup>5</sup> Macroscopic Visual Gross <sup>2</sup> Sample Color Texture <sup>5</sup>	Morph <sup>6</sup> Fiber Color <sup>7</sup> Pieochroism <sup>6</sup> Birel. <sup>9</sup> Sbestos Typ Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup> Birel. <sup>9</sup> Sbestos	To II  To I  Extinction <sup>10</sup> Elongation <sup>11</sup> Contain  Elongation <sup>11</sup> Elongation <sup>12</sup> Econgation <sup>12</sup> Econgation <sup>13</sup> Econgation <sup>13</sup> Contain	Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup> Pieochroism <sup>6</sup> Biref. <sup>9</sup> Optical F Hoochroism <sup>6</sup> Fiber Color <sup>7</sup> Fiber Color <sup>7</sup> Pieochroism <sup>6</sup>	Properties         Properties           nD II         nD II           nD I         III           Particular         III           Extinction <sup>10</sup> III           For parties         nD II           InD II         III           InD II         III           InD II         III           InD III         III	Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup> Pleochroism <sup>1</sup> Biref. <sup>9</sup> Biref. <sup>9</sup> Fiber Color Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup> Pleochroism <sup>1</sup> Fiber Color Biref. <sup>9</sup>	Properties	Methof of Ouar           1234 36           VAE           1234 56           /           VAE           1234 56           /           VAE           Specify if differe           % Asbesto           Method Clar           1234 56           /           VAE           Specify if differe           1234 56           /           VAE           Specify if differe	nt.     %       78     78       78     78       78     78       78     78       78     78       78     78       78     78       78     78       78     78		PC VAE PC VAE PC VAE Nonfibr PC VAE PC VAE	ant. %	Optical Che	entage	Notes
ield Sample # 16B sbestos- .ab Sample # 481694 ield Sample # 16C sbestos- : Point Count relytical Met	Sample Type <sup>1</sup> Friability <sup>4</sup> F or N Containing Sample Type <sup>1</sup> Sample Type <sup>1</sup> Sample Type <sup>1</sup> Friability <sup>4</sup> F or N Containing Containing CONTAINING CONTAINING	Visual Gross <sup>2</sup> Sample Color Texture <sup>5</sup> Won-A Macroscopic Visual Gross <sup>2</sup> Sample Color Texture <sup>5</sup> Visual Area I Visual Area I	Morph <sup>6</sup> Fiber Color <sup>7</sup> Pieochroism <sup>6</sup> Birel. <sup>9</sup> Sbestos Typ Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup> Birel. <sup>9</sup> Sbestos	To II  To II  To II  Elongation <sup>11</sup> Elongation <sup>11</sup> Elongation <sup>11</sup> Elongation <sup>11</sup> Contail  Elongation <sup>12</sup> Elongation <sup>12</sup> Elongation <sup>13</sup> Elongation <sup>13</sup> Elongation <sup>14</sup> Elongation <sup>14</sup> Elongation <sup>15</sup> Elongatio <sup>15</sup> Elongatio <sup>15</sup> Elongatio <sup>15</sup> Elongatio <sup>15</sup> Elo	Optical F Morph <sup>®</sup> Fiber Color <sup>7</sup> Pieochroism <sup>®</sup> Biref. <sup>9</sup> Optical F Morph <sup>®</sup> Fiber Color <sup>7</sup> Pieochroism <sup>®</sup> Biref. <sup>9</sup> Pieochroism <sup>®</sup> Containe Pieochroism <sup>®</sup> Containe Pieochroism <sup>®</sup> Containe Pieochroism <sup>®</sup> Containe Conta	Properties	Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup> Pleochroism <sup>6</sup> Biref. <sup>9</sup> Biref. <sup>9</sup> Pleochroism <sup>6</sup> Fiber Color <sup>7</sup> Pleochroism <sup>6</sup> Biref. <sup>9</sup> Biref. <sup>9</sup> Biref. <sup>9</sup>	Properties  Properties  Constraints  Properties  Properties Properti	Methof of Ouar           1234 36           VAE           1234 56           /           VAE           1234 56           /           VAE           Specify if differe           % Asbesto           Method Clar           1234 56           /           VAE           Specify if differe           1234 56           /           VAE           Specify if differe	M.         %           78         78           78 <t< td=""><td>- M</td><td>PC VAE PC VAE PC VAE Nonfibr</td><td>ant. %</td><td>S Perc</td><td>entage )) aracteristics<sup>14</sup> entage ) aracteristics<sup>14</sup> entage</td><td>Notes</td></t<>	- M	PC VAE PC VAE PC VAE Nonfibr	ant. %	S Perc	entage )) aracteristics <sup>14</sup> entage ) aracteristics <sup>14</sup> entage	Notes

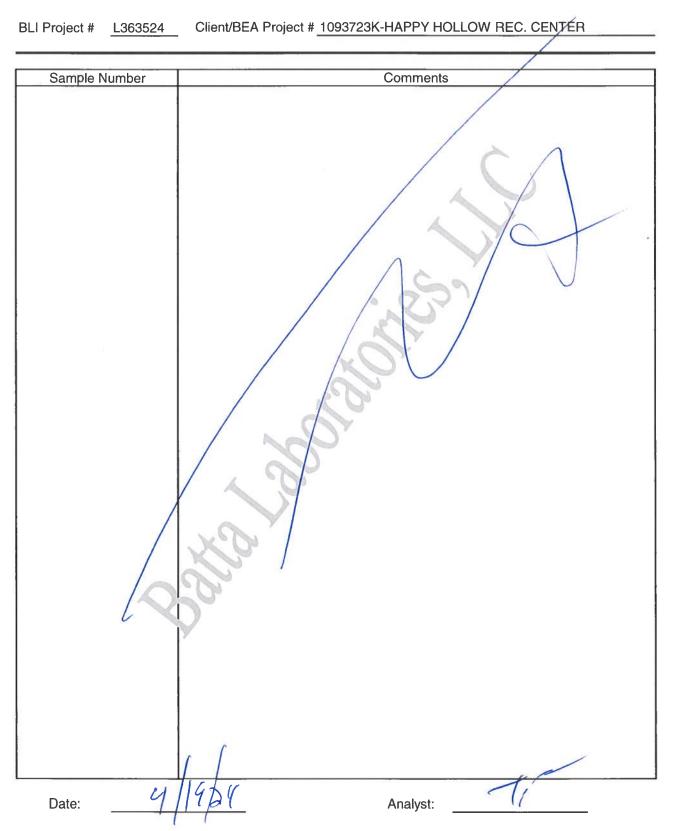
RATT.		Ron	ch C	haot	F						- 001	010/0		Page 9	of Q	
				1			_		) (Scope #3)			212 (Scor				
IN Scope	ID#: Nikon	202306 (Sco	pe #1)	Leica	DM750P (S	cope #2)		npus 24033	o (Scope #4)			293 (Scor			1pus 202705 (Sc	
			BLI P	roject #	<u>L36</u>	3524	Nar	ne of Cli	ent/Project	: <u>10</u>	937	723K-	HAPPY	HOLLO	W REC. C	<u>ENTE</u>
Sample	ә Туре <sup>1</sup>	Visual Gross <sup>2</sup>	٤	Sample Color	3	4 Friability	Sample Texture	Morphology	Fiber Color (in plane light)	Pleochroisn		9 <u>Bire</u> 1-lo 3-hi	Asbestos 12 Types	Non-Asbestos Types	Optical/Morph. 14 Characteristics	Non-Fibrous Types
nperature (°C):			1 black	7 brown	13 orange		1 cementic.	1 wavy				2 medium	1 chrysotile	1 cellulose	1 undulose ext.	1 matrix
ulation	6 ceiling tile	1 Homogenous		8 blue	14 various	Friable	2 granular	2 straight	1 clear	1 no 2 y	- 17	10 xtinction	2 amosite	2 fiberglass	2 isotropic	2 binder
eetrock ofing material	7 linoleum 8 floor tile	2 Heterogeneous	l °	9 white 10 red	15 other	or Nontriable	3 librous 4 lirm	3 splayed end: 4 fiber bundles			- I	1 parallel 2 oblique	3 crocidolite 4 anthophyllite	3 mineral wool 4 synthetic fibe	3 shot 4 high birefringenc	3 CaSO <sub>4</sub> a 4 CaCO <sub>2</sub>
- M	9 mastic/adhesive		5 silver	11 green			5 sott	5 single fibers	4 brown	d yes, give co	ior <u>El</u>	11 ongation	5 tremolite	5 wollastonite	5 mult.elon.(flips)	5 Vermiculite
int compound	10 plaster	3 Layered	6 gray	12 pink			6 paper-like	6 blocky	5 other			+ or -	6 actinolite	other	other	6 other
	Sample Desc		Asbes Optical P			tos #2 Properties	Asbes Optical P		% Asbestos Methog et Qua			Aethod of Q		n-Asbestos Typ		Analyst's Notes
ab Sample #	Client-Supplied Data	Macroscopic	Morph <sup>6</sup>	<sup>n</sup> D II	Morph <sup>6</sup>	nD II	Morph <sup>6</sup>	nD II	1234 6		6 1	PC	uarn. %	Optical C	haracteristics <sup>14</sup>	140103
481695	Sample ype'	Visual Gross <sup>2</sup>	Fiber Color <sup>7</sup>	nD T	Fiber Color <sup>7</sup>	- n <sub>D</sub> T	.Fiber Color <sup>7</sup>	n <sub>D</sub> T	VAE		-	VA	E			1.0
	[0]KIN				<u> </u>				1234 56	78	+					late
ield Sample #	Friability <sup>4</sup>	Sample Color'	Pleochroism	Extinction <sup>10</sup>	Pleochroism	Extinction 10	Pleochroism <sup>o</sup>	Extinction	1		-	PC		-		1
		9							VAE			VA	E	1		* scan
100	F or N	Texture <sup>5</sup>	Biref. <sup>9</sup>	Elongation <sup>11</sup>	Biref. <sup>9</sup>	Elongation <sup>11</sup>	Biref. <sup>9</sup>	Elongation <sup>11</sup>	123456	78		PC	14			Asbestos
16D									VAE			VA	E	1		Stereo VAE %
								I	1		_	Nonfib	rous Types'	5 Pe	centage	
sbestos-C	Containing	Non-A	sbestos	-Contair	nin`g 🖬	An	alytical I	Method:	Mandalo y				U	10		0
	Sample Desc	·		e#1	О Тур			e #3	% Asbes		1			Non-Asbestos (		Analyst's
Lab Sample #	Client-Supplied Data	Macroscopic	Optical P Morph <sup>6</sup>	nD II	Optical F Morph <sup>6</sup>	roperties nD II	Optical P Morph <sup>6</sup>	n D II	Method of Qua		6 1	Method of C	luant. %	Optical C	haracteristics <sup>14</sup>	Notes
481696	Sample Type <sup>1</sup>	Visual Gross <sup>2</sup>	Fiber Color <sup>7</sup>	n <sub>D</sub> l	Fiber Color <sup>7</sup>	n <sub>D</sub> 1	Fiber Color <sup>7</sup>	n <sub>D</sub> 1	VAE		-	PC VA	E	1		Cay+
ield Sample #	Friability <sup>4</sup>	Sample Color <sup>3</sup>	Pleochroism <sup>8</sup>	Extinction <sup>10</sup>	Pleochroism	Extinction	Pleochroism <sup>8</sup>	Extinction <sup>10</sup>	1234 50	78		PC				Γ'
	T RELINATY	G							VAE			VA	E			* scan
16E	F or N	<sup>5</sup> erutxe <sup>5</sup>	Birel. <sup>9</sup>	Elongation <sup>31</sup>	Biref. <sup>9</sup>	Elongation <sup>11</sup>	Biref. <sup>9</sup>	Elongation <sup>11</sup>	1234 56	578		PC		-		Asbestos Stereo
		1	1	L					VAE			VA		5 Po	gentage	VAE %
sbestos-0	Containing	Non-A	sbestos	-Contair	ning	An	alytical l	Method:	Specily it diffe	rent		THURSDAY	rous Types	10	0	1
	Sample Desc	riptions	Тур	e#1	Тур			e #3	% Asbes					Non-Asbestos (		Analyst's
Lab Sample #	Client-Supplied Data	Macroscopic		roperties nD II	Optical I Morph <sup>6</sup>	Properties	Optical F Morph <sup>6</sup>	roperties nD II	Method of Qua 12345		%	Method of C	auant. %	Optical C	haracteristics <sup>14</sup>	Notes
162	Sample Type <sup>1</sup>	Visual Gross <sup>2</sup>	Morph <sup>°</sup>		Morph		Morph	0.				PC				
175	103410		Fiber Color <sup>7</sup>	πDΤ	Fiber Color <sup>7</sup>	nD T	Fiber Color <sup>7</sup>	n <sub>D</sub> ⊥	VAE			VA	E			
Field Sample #	Friability <sup>4</sup>		Pleochroism <sup>8</sup>	Extinction <sup>10</sup>	Pleochroism	Extinction <sup>10</sup>	Pleochroism	Extinction <sup>10</sup>	123450	5/8		PC				
		4							1234 5		-	VA	E			* scan
i A	F or N	Texture <sup>5</sup>	Biret. <sup>9</sup>	Elongation <sup>11</sup>	Biref. <sup>9</sup>	Elongation <sup>1</sup>	<sup>1</sup> Biref. <sup>9</sup>	Elongation <sup>11</sup>	1		_	PC VA				Asbesto Stereo VAE %
		-1	<u> </u>	I	1.1.4-	I	1		VAE				prous Types	5 Pa	rcentage	
sbestos-	Containing	Non-A	sbestos	-Contai	ning	Ar	nalytical	Method:	Specify if diffe	rent		NOTIN	JIOUS TYPES		10	10
	Sample Desc		Тур	e#1	Typ	e #2	Тур	e#3	% Asbes					Non-Asbestos (	13)	Analyst's
Lab Sample #	Client-Supplied Data	Macroscopic		Properties		Properties		Properties	Method of Ou 1334 50	ant.	%	Method of C	Quant, %	Optical (	Characteristics <sup>14</sup>	Notes
No	Sample Type <sup>1</sup>	Visual Gross <sup>2</sup>	Morph <sup>6</sup> Fiber Color <sup>7</sup>	nD II ND T	Morph <sup>6</sup>	nD II	Morph <sup>6</sup> Fiber Color <sup>7</sup>	nD T	VAE		_	PC VA	LF	-		
	100212	Com-to-Co	Bine to t	Extinction <sup>10</sup>	Pleochroism	<sup>8</sup> Extinction <sup>10</sup>	Pleochroism	Extinction <sup>10</sup>	1234 5		+	PC			2.1151	-
Field Sample #	Friability <sup>4</sup>	Sample Color	/ IOUCHAOISIN	CAUTODOR	- IOULIOISM	LAURCOON	a reconstruism	LAUNGOON	VAE		-	VA	E	-		* scan
	F or N	T5	Birel. <sup>9</sup>	Elongation	1 Biref. <sup>9</sup>	Elongation	<sup>1</sup> Biref. <sup>9</sup>	Elongation <sup>11</sup>	12345	678		PC				Asbesto
6B	ForN	Texture	Birei.	Exongation	Birei.	Elongation	Biret.	Elongation	VAE		-	n VA	k ∉ ∫ ſ	-		Stereo VAE %
	1											Nonf	prous Types	5	rcentage	
Asbestos-	Containing	Non-A	Asbestos	Contai	nîng 🗆	Ar	nalytical	Method:	Specify if diffe	rent	1		le		10 /1	2
C: Point Count; nalytical Me	VAE: (Calibrated)					n in nataa t			Analysis:		1	14	)4	Analyst:		Ps definitio
•	stnods: 3/116 Without Grav		ng scan opti			n in notes t : 1000 Poin		NO(6: D	minuoli or aspes						on EPA NESHA 8 N.J.R. 2526)	, a gennulo

# BATTA PLM Bench Sheet

BATT	A PLM	Ben	ch S	hee	t			mpus 221810	(Scope #3)	Nikon :	222212 (S	cope #	5)	Page of	of	
PLM Scope	ID#: Nikor	1 202306 (Sca	ope #1)	Olym	pus 222204	(Scope #2		mpus 240335		Nikon	102293 (S	соре #	3)		nous 202705 (Se	:ope #7)
			BLI P	roject #			Na	me of Clie	ent/Project	:					-	
Sampl	а Тура	2 Visual Gross		Sample Color	3	4 Friability	Sample 5	6 Morphology	Fiber Color (In plane light)	Pleochroism <sup>8</sup>	9 Bire	A	sbestos 12 /pes	Non-Asbestos	14	Non-Fibrous
Temperature (°C):			1 black	7 brown	13 orange		Texture 1 cementic.	1 wavy	(in plane signi)		1-lo 3-l 2 mediur		rysotile	Types 1 cellulose	Characteristics 1 undulose ext.	Types 1 matrix
1 insulation	6 ceiling tile	1 Homogenous	2 tan	8 blue	14 various	Friable	2 granular	2 straight	1 clear	1 no 2 yes	Extinction	101	nosita	2 fiberglass	2 isotropic	2 binder
2 sheetrock 3 roofing material	7 finoleum 8 floor tile	2 Heterogeneous	3 gold 4 yellow	9 white 10 red	15 other	or Nonfriable	3 fibrous 4 firm	3 splayed ends 4 fiber bundles	2 tan 3 blue		1 paralle 2 oblique		cidolite Lhophyllite	3 mineral wool 4 synthetic fibe		3 CaSO <sub>4</sub> 4 CaCO <sub>2</sub>
4 soi	9 mastic/adhesive	2 11000103010000	5 silver	11 green		FNORTRADIO	5 soft	5 single fibera	4 brown	if yes, give color	Elongation	11	molite	5 wollastonite	5 mult.elon.(flips)	5 Vermiculite
5 joint compound	10 plaster	3 Løyered	6 gray	12 pink			6 paper-like	6 blocky	5 other		+ or -		linolite	other	other	6 other
	Sample Desc Client-Supplied Data			tos #1 Properties		stos #2 Properties		itos #3 Properties	% Asbestos Method of Qua		Method o	-	ibrous Nor %	-Asbestos Typ Optical C	e (13) haracteristics <sup>14</sup>	Analyst's Notes
Lab Sample #		2	Morph <sup>6</sup>	<sup>n</sup> D II	Morph	"D II	Morph <sup>6</sup>	11 011	1284 50		PC			C Produce C		
14832	Sample Type'	Visual Gross <sup>4</sup>	Eiber Color <sup>7</sup>	nD T	Fiber Color <sup>7</sup>	TOT	Fiber Color <sup>7</sup>	···D 포	VAE			/AE		1		
1910	10pak								1234 56	78		1				{
Field Sample #	Friability <sup>4</sup>	Sample Color <sup>3</sup>	Pleochroism	Extinction <sup>10</sup>	Pleochroism	Extinction <sup>\$0</sup>	Pleochroism	Extinction <sup>10</sup>	1		PC					
		4				1			VAE		1	/AE				scan*
160	F or N	Texture <sup>5</sup>	Biref. <sup>9</sup>	Elongation <sup>11</sup>	Biref. <sup>9</sup>	Elongation <sup>11</sup>	Biref. <sup>9</sup>	Elongation <sup>11</sup>	1234 50	578	PC					Asbestos Stereo
160		9			1	1			VAE			/AE		1		VAE %
Acheotop		Non A	sbestos	Contal		A	alytical	Method:	Maydata		Nor	librous	Types15	Per	rçentage	P
ASD85105-0	Sample Desc			e#1		6 #2		e#3	% Asbes	tos (12)			Pibrous	Non-Asbestos (	13)	Analyst's
Lab Sample #	Client-Supplied Data	Macroscopic	Optical F	Properties	Optical F	Properties	Optical F	Properties	Method of Qua		Method o	f Quant.	*	Optical C	characteristics <sup>14</sup>	Notes
	Sample Type <sup>1</sup>	Visual Gross <sup>2</sup>	Morph <sup>6</sup>		Morph <sup>6</sup>		Morph®			5/6	PC	:				
173	10841		Fiber Color <sup>7</sup>	лDт	Fiber Color <sup>7</sup>	шD Т	Fiber Color <sup>7</sup>	- UD T	VAE		1	/AE				
112	10 5 4 10	5-1-0-1-3	District	Extinction <sup>10</sup>	Pleochroism	Extinction <sup>10</sup>	Pleochroism	Extinction <sup>10</sup>	1234 50	578	PO					1
Field Sample #	Friability <sup>4</sup>	Sample Color	Pleochroism	Exunction	Pieochroism	Exuncuon	Pieochroism	Exancuon	VAE			/AE	-	ł		scan *
		Ų			<u> </u>	1			1234 5 f		++-		1000			
IGD	F or N	Texture	Biref. <sup>9</sup>	Elongation <sup>11</sup>	Biref. <sup>9</sup>	E ongation <sup>11</sup>	Biref. <sup>9</sup>	Elongation <sup>11</sup>	1		PO					Asbestos Stereo
1					IA /	1			VAE		1	/AE	1			VAEX
Asbestos-	Containing D	Non-A	sbestos	-Contair		An	alytical	Method:	Specify if diffe	rent	Nor	fibrous	Tipes 15	10	pentige	0
	Sample Desc			e#1	Тур			ie #3	% Asbes					Non-Asbestos (		Analyst's
Lab Sample #	Client-Supplied Data	Macroscopic	Optical F Morph <sup>8</sup>	Properties	Optical f Morph <sup>6</sup>	Properties	Optical I Morph	Properties	Mainod of Cau		Method o	1	*	Optical C	Characteristics <sup>14</sup>	Notes
	Sample Type <sup>1</sup>	Visual Gross <sup>2</sup>	Fiber Color <sup>7</sup>	мDт	Fiber Color <sup>7</sup>	nD 1	Fiber Color <sup>7</sup>	MD T				·		1		
174	TOBUL		Piper Color		Piper Color		Figer Color		VAE			VAE				
C.M.C. and A	4	Sample Color <sup>3</sup>	Pleochroism	Extinction <sup>10</sup>	Pleochroism	Extinction <sup>10</sup>	Pleochroism	Extinction <sup>10</sup>	1234 5	678	PO	;				
Field Sample #	Friability <sup>4</sup>	C				1			VAE			VAE		1		scan *
11 17	ForN	Texture <sup>5</sup>	Biref. <sup>9</sup>	Elongation	Biref. <sup>9</sup>	Elongation <sup>1</sup>	Biref. <sup>9</sup>	Elongation <sup>11</sup>	1234 5	578	P					Asbestos
160		U				/	<u> </u>		VAE			VAE	0	1		Stereo VAE %
	1000 8	-					-				1000		Tipes <sup>15</sup>	Pe	rcentage	17
Asbestos-G	Containing		sbestos				alytical		Specify if diffe				le	10	//	0
Lab Security #	Sample Desi Client-Supplied Data			e #1 Properties		e #2 Properties		pe #3 Properties	% Asbes Method of Qu	ant. %	Method	of Quant.	% Fibrous	Non-Asbestos ( Optical (	13) Characteristics <sup>14</sup>	Analyst's Notes
Lab Sample #	Samela Traa <sup>1</sup>	Visual Gross <sup>2</sup>	Morph <sup>6</sup>	ווסיי	Morph <sup>6</sup>	"D II	Morph <sup>6</sup>		1234 5	678	P	:	1.20		And	
	Sample Type	VIAUEI GROSS	Fiber Color	ד סיי	Fiber Color <sup>7</sup>	ד מיי	Fiber Color <sup>7</sup>	ד סיי	VAE			VAE	1	1		
									1234 5			-		<u> </u>	22414	1
Field Sample #	Friability <sup>4</sup>	Sample Color <sup>3</sup>	Pleochroism	Extinction <sup>10</sup>	Pleochroism	Extinction <sup>10</sup>	Pleochroism	Extinction <sup>10</sup>	1		P	1		ł		
									VAE			VAE	-			scan*
	ForN	Texture <sup>5</sup>	Biraf. <sup>9</sup>	Elongation	Biref, <sup>9</sup>	Elongation <sup>1</sup>	Biref. <sup>9</sup>	Elongation <sup>51</sup>	1234 5	078	P	1	197			Asbestos Stereo
		1							VAE			VAE				VAE %
Anhentes		Nee 4		Contal	-	A	alution	Mathedi	Specify if diffe		No	nfibrous	Types <sup>15</sup>	Pe	rcentage	1.
			sbestos				alytical				14	4+	M	1	A	10
Analytical Me	VAE (Calibrated)						L	Date of A		tos conteinio	WE BOO	abacto		Analyst:	on EPA NESHA	s deficilies
1. EPA/600/R-93	116 Without Grav		uon for ELA	4. EPA/60	0/R-93/116	1000 Poin	t Count	11018: DB		7. Sta	te d New				8 N.J.R. 2526)	a againtition
	V116 With Gravime V116: 400 Point Co				OB Chatfield I ELAP 198		d Point Cour	nt)			RB 435: ler (specif	y):				
					1.82											

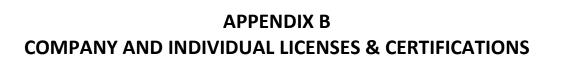
**Analysts' Notes** 

Page of



The handwritten notes on this page are based on the professional judgment of the analyst and are for informational purposes only. Due to this, they should not be considered analytical data.







BATTA Environmental Associates, Inc 6 Garfield Way Newark, DE. 19713 info@battaenv.com Battaenv.com

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### Awarded To: Alyssa Cartagena

SS#:XXX-XX-9856 Who has completed this 4-hour course and examination, EPA Approved under TSCA Title II AHERA / ASHARA Rule 40 CFR Part 763.

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Todd K. Zeisloft, Instructor

Neeraj K. Batta, President

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## **Certificate of Completion**

### AHERA Building Inspector (Refresher)

### Awarded To: Steve Woronicak

**SS#:XXX-XX-8821** Who has completed this 4-hour course and examination, EPA Approved under TSCA Title II AHERA / ASHARA Rule 40 CFR Part 763.

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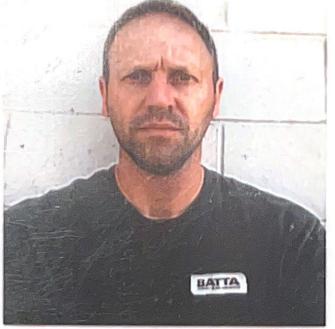
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Course Date: September 21, 2023 Date of Expiration: September 21, 2024 Certification Number : EHSBIR 230921-00013

Todd K. Zeisloft, Instructor

Neeraj K. Batta, President

### **Asbestos Investigator** Cortified by AMS



## **Steve Woronicak**

Issue Date: Expiration:

Certificate #: AIC22-000026 08/09/2022 03/31/2023



City of Philadelphia Dept. of Public Health Air Management Services

ASBESTOS LABORATORY LICENSE CITY OF PHILADELPHIA Department of Public Health Air Management Services

Batta Laboratories, Inc 6 Garfield Way Newark, DE 19713-5817 Certification #: ALL-112 Issue Date: 04/11/2023 Expiration Date: 04/30/2024

**DISPLAY PROMINENTLY** 





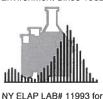
### APPENDIX C CITY OF PHILADELPHIA ASBESTOS INSPECTION REPORT



BATTA Environmental Associates, Inc 6 Garfield Way Newark, DE. 19713 info@battaenv.com Battaenv.com

Air Management Services,	epartment of Public Health 2nd Fl. Asbestos Control L Philadelphia, PA 19104	Office Use Only	Date Received L&I:	Date Received AMS:
Asbestos Inspec	ction Report	Office U	Date Inspected	Inspector No.
1. Name of Building / Property:		Addre	255	
2. Name of Building / Property Owner:		Addro	255	Phone No.
3. Name of Philadelphia Certified Investi	gator:	Certif	ication No. Contact Inf	ormation / Email / Phone No.
L&I Commercial Activity No. (Former	Business Privilege License	e No.)	Business Tax ID No.	
4. Name of Philadelphia Licensed Labora	tory:	Licen	se No.	Phone No.
5. Scope of Work: (Insert or attach a compresult in the disturbance of the identified a activities.)				
6. Property has been declared to be in i Attached is a copy of the L&I Notic				
<ul> <li>7. (ACMs) identified? Yes (List Belo</li> <li>8. Suspected ACM's sampled? Yes (a)</li> </ul>	· _ · • • ·	boratory cl	nain of custody and bulk sar	nple results.) 🗌 No (Why?)
9. List all identified ACM's located in t removed prior to renovation. You (Invest				
Location		Type Code 1)	Amount Square Linear	Condition Action (Code 2) (Code 3)
NF1 - Non-Friable, Cat. 1	Code 2 D - Deteriorated or Delaminated D - Non-Damaged	NRN	Code 3 - Removal necessary prior to D No removal necessary, label A Repair & Label ACM, remov	ACM
10. I hereby certify that the foregoing statem penalties set forth in 18 PA. C.S. S4904 relati requirements of section X of the Asbestos Co and given a copy of this report. If the inspec condition, the building owner has been notifie	ng to unsworn falsification to a ontrol Regulation (ACR) have tion has revealed ACM which	authorities. I been met. 7 will be dis	Furthermore I certify that the ir 'he building owner has been n urbed by the proposed work of	spection, sampling, and labeling otified of the ACR requirements or if it has revealed ACM in bad
11. Signature of Certified Asbestos hvestgator	Date:	Signati	re of Building Owner:	Date:

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### **CERTIFICATE OF PLM ANALYSIS**

Batch#: N/A COC#: N/A Test Method: EPA/600/R-93/116 in conjunction with Batta SOP Report Date: 04/22/24 Sampling Data Date Sampled: 04/17/24 Sampled By: BLI Project #: L363524 S.WORONIC 1093723K-HAPPY HOLLOW REC. CENTER-4800 Wayne Avenue Project Name: Date Analyzed: 04/19/24 Analytical Data Reported Results Sample ID **Client-supplied Data** Lab Client Material Texture/ Non-asbestiform Asbestiform Components Sample# Sample Description Friable? Gross Color Components Sample# Туре Firm Floor Tile 100% Non-1st Floor 1481663 01A No No Asbestos Found Gray fibrous Material Homogeneous Firm Floor Tile 100% Non-1481664 01B 2nd Floor No No Asbestos Found Grav fibrous Material Homogeneous Soft Mastic 100% Non-1481665 1st Floor No Asbestos Found 02A No Yellow fibrous Material Homogeneous Soft Mastic 100% Non-1481666 02B 2nd Floor No Yellow No Asbestos Found fibrous Material Homogeneous Firm Floor Tile 100% Non-1481667 03A 1st Floor Blue No Asbestos Found No fibrous Material Homogeneous

Note 1 Due to limitations of the EPA PLM method, floor tiles may yield false negative (<1%) results by this method. As such, the EPA recommends further analysis by electron microscopy. Batta recommends the NY 198.4 over the Chatfield method.

Note 2 Unless otherwise specified, Tr=Trace and correlates to <0.25% (based on a 400-point EPA point count).

Note 3 Materials containing vermiculite are not good candidates for analysis using standard EPA 600 PLM protocol. Results may be low-biased due to inherent limitations caused by the material. The EPA recommends that vermiculite attic insulation (VAI) be prepared and analyzed using EPA 600/R-04/004, known as "The Cincinnati Method".

ANALYST: JJF

REVIEWED BY

QA/QC Officer/Signatory

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\*The test data pertain only to the items tested. No assumptions or conclusions should be made to materials or samples not analyzed. Furthermore, Batta Laboratories, LLC assumes no responsibility for the accuracy of results influenced by the use of improper collection techniques or equipment.

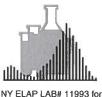
\*Organically-bound, nonfriable material may interfere with the accurate and reproducible quantification of asbestos. In these cases, the EPA recommends further analysis by a matrix-reduction method. Batta recommends the NY ELAP Item 198.6/198.4 over the Chatfield method. When point count techniques are utilized on organically-bound, nonfriable materials without the EPA-recommended matrix reduction steps, Batta Laboratories assumes no responsibility regarding the accuracy or precision associated with these results. In these cases, Batta employs a modified version of the EPA point count method.

\*WRTA refers to a group of fibrous Amphiboles typically associated with 'Libby Amphibole'. Within this classification are: winchite, richterite, tremolite, and actinolite.



101032-D

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### **CERTIFICATE OF PLM ANALYSIS**

Page 2 of 8

101032-6

Batch#:	N/A		_					•	
COC#:	N/A		Test Meth	od: EPA/600	/R-93/116 in conju	nction with E	Batta SOP	Report Date:	04/22/24
Sampling BLI Project Project Na	t #:	L363524 1093723K-HAPPY H		EC CENT	FR-4800 Wayne	Avenue		Date Sampled: Sampled By: Date Analyzed:	04/17/24 S.WORON 04/19/24
	ple ID	Client-sup			Analytical		B	eported Results	04/13/24
Lab	Client	Olicitioup	Material		Texture/	Bata	Non-asbestiform		
Sample#	Sample#	Sample Description	Туре	Friable?	Gross	Color	Components	Asbestiform Con	nponents
1481668	03B	2nd Floor	Floor Tile	No	Firm	Blue	100% Non- fibrous Material	No Asbestos Found	
	· · ·				Homogeneous				
1481669	04A	1st Floor	Mastic	No	Soft	Yellow	100% Non- fibrous Material	No Asbestos Found	
8					Homogeneous				
1481670	04B	2nd Floor	Mastic	No	Soft	Yellow	100% Non-	No Asbestos Found	
	1.0.000				Homogeneous		fibrous Material		
			Baseboard		Firm		100% Non-		
1481671	05A	1st Floor		No	Homogeneous	Black	fibrous Material	No Asbestos Found	
					Firm				
1481672	05B	1st Floor	Baseboard	No		Black	100% Non- fibrous Material	No Asbestos Found	
					Homogeneous		norous material		

further analysis by electron microscopy. Batta recommends the NY 198.4 over the Chatfield method.

Note 2 Unless otherwise specified, Tr=Trace and correlates to <0.25% (based on a 400-point EPA point count).

Note 3 Materials containing vermiculite are not good candidates for analysis using standard EPA 600 PLM protocol. Results may be low-biased due to inherent limitations caused by the material. The EPA recommends that vermiculite attic insulation (VAI) be prepred and analyzed using EPA 600/R-04/004, known as "The Cincinnati Method".

ANALYST: JJF

REVIEWED BY:

A/QC Officer/Signatory

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\*Organically-bound, nonfriable material may interfere with the accurate and reproducible quantification of asbestos. In these cases, the EPA recommends further analysis by a matrix-reduction method. Batta recommends the NY ELAP Item 198.6/198.4 over the Chatfield method. When point count techniques are utilized on organically-bound, nonfriable materials without the EPA-recommended matrix reduction steps, Batta Laboratories assumes no responsibility regarding the accuracy or precision associated with these results. In these cases, Batta employs a modified version of the EPA point count method.

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CERTIFICATE OF PLM ANALYSIS

Page 3 of 8

Code: 101032-D

Batch#:	N/A							l age o o	0
	N/A		Test Metho	od: EPA/600	)/R-93/116 in conju	nction with E	Batta SOP	Report Date:	04/22/24
Sampling BLI Projec Project Na	t #:	L363524 1093723K-HAPPY H	IOLLOW R	EC. CENT	ER-4800 Wayne	Avenue		Date Sampled: Sampled By: Date Analyzed:	04/17/24 S.WOROI 04/19/24
	ple ID	Client-sup			Analytical		R	eported Results	•
Lab	Client		Material		Texture/		Non-asbestiform	-	
Sample#	Sample#	Sample Description	Туре	Friable?	Gross	Color	Components	Asbestiform Con	ponents
1481673	06A	1st Floor	Mastic	No	Soft Homogeneous	Yellow	100% Non- fibrous Material	No Asbestos Found	
1481674	06B	1st Floor	Mastic	No	Soft	Yellow	100% Non- fibrous Material	No Asbestos Found	
					Homogeneous				
1481675	07A	Stairs	Stair Tread	No	Firm	Tan	100% Non- fibrous Materiał	No Asbestos Found	
					Homogeneous		IDIOUS Waterial		
1481676	07B	Stairs	Stair Tread	No	Firm	Tan	100% Non- fibrous Material	No Asbestos Found	
					Homogeneous		instead material		
1481677	08A	Stairs	Mastic	No	Soft	Brown	98% Non- fibrous Material	2% Chrysotile Total Asbestos = 2%	
					Homogeneous				

further analysis by electron microscopy. Batta recommends the NY 198.4 over the Chatfield method.

Note 2 Unless otherwise specified, Tr=Trace and correlates to <0.25% (based on a 400-point EPA point count).

Note 3 Materials containing vermiculite are not good candidates for analysis using standard EPA 600 PLM protocol. Results may be low-based due to inherent limitations caused by the material. The EPA recommends that vermiculite attic insulation (VAI) be prepared and analyzed using EPA 600/R-04/004, known as "The Cincinnati Method".

ANALYST: JJF

REVIEWED B

QA/QC Officer/Signatory

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\*Organically-bound, nonfriable material may interfere with the accurate and reproducible quantification of asbestos. In these cases, the EPA recommends further analysis by a matrix-reduction method. Batta recommends the NY ELAP Item 198.6/198.4 over the Chatfield method. When point count techniques are utilized on organically-bound, nonfriable materials without the EPA-recommended matrix reduction steps, Batta Laboratories assumes no responsibility regarding the accuracy or precision associated with these results. In these cases, Batta employs a modified version of the EPA point count method.

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CERTIFICATE OF PLM ANALYSIS

Page 4 of 8

ode: 101032-D

Batch#:	N/A				_			r ugo 4 o	
	N/A		Test Meth	od: EPA/600	/R-93/116 in conju	nction with	Batta SOP	Report Date:	04/22/24
ampling	Data							Date Sampled:	04/17/24
SLI Project		L363524						Sampled By:	S.WORO
roject Na		1093723K-HAPPY H						Date Analyzed:	04/19/24
Sam	ple ID	Client-sup	plied Da	ita	Analytica	Data	R	eported Results	
Lab	Client		Material		Texture/		Non-asbestiform		
Sample#	Sample#	Sample Description	Туре	Friable?	Gross	Color	Components	Asbestiform Con	nponents
1481678	08B	•• Stairs	Mastic	n/a				Sample Not Analyzed (positive stop rules)	
1481679	09A	2nd Floor water heater rm	Transite	No	Firm	Gray	85% Non- fibrous Material	15% Chrysotile Total Asbestos = 15%	
1481680	098	** 2nd Floor water heater m	Transite	n/a				Sample Not Analyzed (positive stop rules)	
1481681	10A	Boxing gym bldg-Hall outside office	Floor Tile	No	Firm Homogeneous	Gray	100% Non- fibrous Material	No Asbestos Found	
1481682	10B	Boxing gym bldg- Outside men's rm	Floor Tile	No	Firm	Gray	100% Non- fibrous Material	No Asbestos Found	
					Homogeneous				

Note 2 Unless otherwise specified, Tr=Trace and correlates to <0.25% (based on a 400-point EPA point count).

JJF

Materials containing vermiculite are not good candidates for analysis using standard EPA 600 PLM protocol. Results may be low-biased due to Note 3 inherent limitations caused by the material. The EPA recommends that vermiculite attic insulation (VAI) be prepped and analyzed using EPA 600/R-04/004, known as "The Cincinnati Method".

ANALYST:

**REVIEWED By** 

OA/QC Officer/Signatory

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\*\* This sample was not analyzed for reasons noted in the far right column. Batta Labs, LLC will not charge clients for samples not analyzed. Please contact Batta if charged in error.

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#### **CERTIFICATE OF PLM ANALYSIS**

Page 5 of 8

ab Code: 101032-0

N/A								
N/A		Test Meth	od: EPA/600	/R-93/116 in conju	nction with E	Batta SOP	Report Date:	04/22/24
Data t #: me:	L363524		REC CENT	FB-4800 Wavne	Avenue		Date Sampled: Sampled By: Date Analyzed:	04/17/24 S.WORON 04/19/24
				,		B		01110121
······								
Sample#	Sample Description	Туре	Friable?	Gross	Color	Components	Asbestiform Con	nponents
11A	Boxing gym bldg-Hall outside office	Mastic	No	Soft Homogeneous	Yellow	100% Non- fibrous Material	No Asbestos Found	
118	Boxing gym bldg- Outside men's rm	Mastic	No	Soft Homogeneous	Yellow	100% Non- fibrous Material	No Asbestos Found	
12A	Boxing gym bldg-Hall outside office	Mastic	No	Soft	Tan	100% Non- fibrous Material	No Asbestos Found	
12B	Boxing gym bldg- Outside men's m	Mastic	No	Soft	Tan	100% Non- fibrous Material	No Asbestos Found	
13A	Boxing gym bldg-main area	Mastic	No	Homogeneous Soft	Tan	100% Non- fibrous Material	No Asbestos Found	N.
	N/A Data t #: me: ple ID Client Sample# 11A 11B 12A 12B	N/A         Data         t #:       L363524         me:       1093723K-HAPPY High         ple ID       Client-supp         Client       Sample Description         11A       Boxing gym bldg-Hall outside office         11B       Boxing gym bldg-Outside men's rm         12A       Boxing gym bldg-Hall outside office         12B       Boxing gym bldg-Outside men's rm         13A       Boxing gym bldg-main	N/A     Test Meth       Data     Image: L363524       t #:     L363524       me:     1093723K-HAPPY HOLLOW F       ple ID     Client-supplied Date       Client     Material       Sample#     Sample Description     Type       11A     Boxing gym bldg-Hall outside office     Mastic       11B     Boxing gym bldg-Hall outside office     Mastic       12A     Boxing gym bldg-Hall outside office     Mastic       12B     Boxing gym bldg-Hall outside office     Mastic       12B     Boxing gym bldg-Mall outside office     Mastic       13A     Boxing gym bldg-main     Mastic	N/A     Test Method: EPA/600       Data t #:     L363524 me:       1093723K-HAPPY HOLLOW REC. CENT ple ID     Client-supplied Data       Client     Material Sample#       Sample Description     Type       11A     Boxing gym bldg-Hall outside office     Mastic No       11B     Boxing gym bldg-Hall outside office     Mastic No       12A     Boxing gym bldg-Hall outside office     Mastic No       12B     Boxing gym bldg- Outside men's rm     Mastic No       12B     Boxing gym bldg- Outside men's rm     Mastic No	N/A       Test Method: EPA/600/R-93/116 in conju         Data t #:       L363524 1093723K-HAPPY HOLLOW REC. CENTER-4800 Wayne ple ID       Analytical         Client Sample#       Client-supplied Data       Analytical         Client Sample#       Sample Description       Type       Friable?       Gross         11A       Boxing gym bldg-Hall outside office       Mastic No       Soft       Soft         11B       Boxing gym bldg- Outside men's m       Mastic No       Soft       Soft         12A       Boxing gym bldg- Outside office       Mastic No       Soft       Soft         12B       Boxing gym bldg- Outside men's m       Mastic No       Soft       Soft         12B       Boxing gym bldg- Outside men's m       Mastic No       No       Soft         12B       Boxing gym bldg- Outside men's m       Mastic No       No       Soft         12B       Boxing gym bldg- Outside men's m       Mastic No       No       Soft         13A       Boxing gym bldg- Outside men's m       Mastic No       No       Soft	N/A       Test Method: EPA/600/R-93/116 in conjunction with I         Data t #:       L363524 me:       Analytical Data         Die ID       Client-supplied Data       Analytical Data         Client       Sample Description       Type       Friable?       Gross       Color         11A       Boxing gym bldg-Hall outside office       Mastic No       No       Soft Yellow         11B       Boxing gym bldg- Outside men's rm       Mastic No       Soft No       Soft Yellow         12A       Boxing gym bldg-file       Mastic Outside office       Mastic No       Soft Yellow         12A       Boxing gym bldg-file       Mastic Outside men's rm       Mastic No       Soft Tan Homogeneous         12A       Boxing gym bldg-file       Mastic Outside office       Mastic No       Soft Tan         12B       Boxing gym bldg-file       Mastic Outside men's rm       Mastic No       Soft Tan         12B       Boxing gym bldg-file       Mastic No       Soft No       Tan         13A       Boxing gym bldg-main area       Mastic No       Soft No       Tan	N/A       Test Method: EPA/600/R-93/116 in conjunction with Batta SOP         Data t #:       L363524 :1093723K-HAPPY HOLLOW REC. CENTER-4800 Wayne Avenue         ple ID       Client-supplied Data       Analytical Data       R         Client       Material       Texture/       Non-asbestiform Components       R         Sample #       Sample Description       Type       Friable?       Gross       Color       Non-asbestiform Components         11A       Boxing gym bldg-Hall outside office       Mastic No       No       Soft Yellow       100% Non- fibrous Material         11B       Boxing gym bldg- Outside office       Mastic No       No       Soft Yellow       100% Non- fibrous Material         12A       Boxing gym bldg-Hall outside office       Mastic No       No       Soft Homogeneous       Tan       100% Non- fibrous Material         12A       Boxing gym bldg-Hall outside office       Mastic No       No       Soft Homogeneous       Tan       100% Non- fibrous Material         12B       Boxing gym bldg- Outside men's rm       Mastic No       No       Soft Homogeneous       Tan       100% Non- fibrous Material         12B       Boxing gym bldg-main area       Mastic No       No       Soft Tan       Tan       100% Non- fibrous Material         13A       Boxing	NA         Test Method: EPA/600/R-93/116 in conjunction with Batta SOP         Report Date:           Data         Date Sampled:         Material         Texture/         Non-asbestiform         Components         Asbestiform Cor           11A         Boxing gym bidg-Hall         Mastic         No         Soft         Yellow         100% Non-fibrous Material         No Asbestos Found           11B         Boxing gym bidg-Hall         Mastic         No         Soft         Yellow         100% Non-fibrous Material         No Asbestos Found           12A         Boxing gym bidg-Hall         Mastic         No         Soft         Tan         100% Non-fibrous Material         No Asbestos Found           12A         Boxing gym bidg-Gite         Mastic<

Note 1 Due to limitations of the EPA PLM method, floor tiles may yield false negative (<1%) results by this method. As such, the EPA recommends further analysis by electron microscopy. Batta recommends the NY 198.4 over the Chatfield method.

Note 2 Unless otherwise specified, Tr=Trace and correlates to <0.25% (based on a 400-point EPA point count).

Note 3 Materials containing vermiculite are not good candidates for analysis using standard EPA 600 PLM protocol. Results may be low-biased due to inherent limitations caused by the material. The EPA recommends that vermiculite attic insulation (VAI) be prepped and analyzed using EPA 600/R-04/004, known as "The Cincinnati Method".

ANALYST: JJF

**REVIEWED BY:** G

**AC Officer/Signatory** 

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Lab Code: 101032-D

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PCM, PLM, TEM & Lead

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A Certified MBE Company

Delaware Industrial Park, 6 Garfield Way Newark, DE19713-5817 Tel. (302)737-3376 Fax (302) 737-5764

Web: http://www.battaenv.com E-mail: battaenv@battaenv.com

#### CERTIFICATE OF PLM ANALYSIS

Batch#: N/A COC#: Report Date: 04/22/24 N/A Test Method: EPA/600/R-93/116 in conjunction with Batta SOP Date Sampled: Sampling Data 04/17/24 Sampled By: S.WORONIC L363524 BLI Project #: 1093723K-HAPPY HOLLOW REC. CENTER-4800 Wayne Avenue Date Analyzed: 04/19/24 Project Name: **Reported Results** Sample ID **Client-supplied Data** Analytical Data Non-asbestiform Lab Client Material Texture/ Asbestiform Components Sample# Friable? Gross Color Components Sample# Sample Description Туре Soft Mastic 100% Non-Boxing gym bldg-main No Asbestos Found 1481688 13B No Tan fibrous Material area Homogeneous Firm Flue 100% Non-Boxing gym bldg-Packing 1481689 No Various No Asbestos Found 14A fibrous Material basement Homogeneous Firm Flue 100% Non-Boxing gym bldg-1481690 Packing Various No Asbestos Found 14B No basement fibrous Material Homogeneous Window Firm Boxing gym bldg-100% Non-1481691 15A Glaze Yes White No Asbestos Found fibrous Material basketball entrance Homogeneous Firm Window 100% Non-Boxing gym bldg-Glaze No Asbestos Found 1481692 16A Yes Gray basketball entrance fibrous Material Homogeneous

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ANALYST: JJF

REVIEWED BY:

OA/QC Officer/Signatory

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Code: 101032-D

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#### CERTIFICATE OF PLM ANALYSIS

Batch#: N/A COC#: 04/22/24 N/A Test Method: EPA/600/R-93/116 in conjunction with Batta SOP **Report Date:** Sampling Data Date Sampled: 04/17/24 Sampled By: BLI Project #: L363524 S.WORONIC Project Name: 1093723K-HAPPY HOLLOW REC. CENTER-4800 Wayne Avenue Date Analyzed: 04/19/24 **Reported Results** Sample ID **Client-supplied Data** Analytical Data Non-asbestiform Lab Client Material Texture/ Sample# Friable? Gross Color Components Asbestiform Components Sample# Sample Description Type Firm Boxing gym bldg-Main Plaster skim 100% Non-No Asbestos Found 1482175 16A LAYER No White fibrous Material boxing gym Homogeneous Firm Boxing gym bldg-Main Plaster base 100% Non-1481693 16B No No Asbestos Found Gray boxing gym fibrous Material Homogeneous Firm Boxing gym bldg-Main Plaster skim 100% Non-1482176 16B LAYER No White No Asbestos Found boxing gym fibrous Material Homogeneous Firm Boxing gym bldg-Main Plaster base 100% Non-1481694 16C No No Asbestos Found Gray fibrous Material boxing gym Homogeneous Firm Boxing gym bldg-Main Plaster skim 100% Non-1482172 16C LAYER No White No Asbestos Found fibrous Material boxing gym Homogeneous

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ANALYST: JJF

REVIEWED BY

QA/QC Officer/Signatory

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#### **CERTIFICATE OF PLM ANALYSIS**

Page 8 of 8

101032-D

Batch#:	N/A							•	
COC#:	N/A		Test Metho	od: EPA/600	)/R-93/116 in conju	nction with E	Batta SOP	Report Date:	04/22/24
Sampling	Data							Date Sampled:	04/17/24
BLI Projec	t #:	L363524						Sampled By:	S.WORONIC
Project Na	me:	1093723K-HAPPY H	IOLLOW RI	EC. CENT	ER-4800 Wayne	Avenue		Date Analyzed:	04/19/24
Sam	ple ID	Client-sup	plied Da	ta	Analytical	Data	R	eported Results	
Lab Sample#	Client Sample#	Sample Description	Material Type	Friable?	Texture/ Gross	Color	Non-asbestiform Components	Asbestiform Corr	ponents
1481695	16D	Boxing gym bldg-Main boxing gym	Plaster base	No	Firm Homogeneous	Gray	100% Non- fibrous Material	No Asbestos Found	
1482173	16D LAYER	Boxing gym bldg-Main boxing gym	Plaster skim	No	Firm Homogeneous	White	100% Non- fibrous Material	No Asbestos Found	
1481696	16E	Boxing gym bldg-Main boxing gym	Plaster base	No	Firm Homogeneous	Gray	100% Non- fibrous Materiat	No Asbestos Found	
1482174	16E LAYER	Boxing gym błdg-Main boxing gym	Plaster skim	No	Firm Homogeneous	White	100% Non- fibrous Material	No Asbestos Found	

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BATTA ENVIRONN Delaware Industrial Pa 6 Garfield Way Newark, DE 19713-56	Happy Hellow RIC CIMPLE adress: Jy SAB WIDNIN AND MILLE	201 WORDNICAN MUS	MATERIAL SAMBLED	I NOR (OND)	12 x12 PIOURFIR			machicalin bluer 2x12	Rawboard	Basehard marrie	State Tread material	Gartread martic	TRansite Panel	MUN MIXING	12x12 P100x HU	mashe alwarm nx12	Base brack matter	Rubbur Pinne machic	PIUP PACKING	S-Surfacing M-Mixcellaneous 2 Maleural Sampled Pipe Covering Relinninished BV:	Delivered By:	Delivered By:	Delivered By:
<b>BATTA</b> Environmental	Project Name: HQ	Inspector(s): S B.I. #:	SAMPLE NUMBER	FIELD LABI	- levez	-	2 (2)(1) c (c)(2)	4 (3.18.0 Wel	5 BBC 6701	66.c 673	7 2000 675	5 G.B.C 677	9 BB.C 679	A, B, C	10 GBC 681	11 (ABC 1523	12 QBC LOSL	13 ABC 687	N 000 689	Notes 1 AHERA Classification: T=Thermail Insulation,			

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RONMENTAL ASSOCIATES strial Park Ph (302) 737-5 773-5817 WWW.battaenv W R V Phil		CLASS G/	Window Plazina M D	mody plaster wails S E			/										2 Material Sampled: Ppe Covering, Boiler Breeching, Ceiling Tae, Floor Date:		By:Date: By:Date:
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Samp	le Type <sup>1</sup>	Visual Gross <sup>2</sup>		Sample Color	3	4 Friability	Sample 5 Texture	Morphology <sup>6</sup>	Fiber Color (in plane light)			9 Bine	Asbestos 12 Types	Non-Asbestos Types <sup>13</sup>	Optical/Morph. Characteristics	Non-Fibrou Types <sup>15</sup>
Temperature (°C):			1 black	7 brown	13 orange	ļ	1 cementic.	1 wavy		-			hrysotile	1 cellulose	1 undulose ext.	1 matrix
l insulation	6 ceiling tile	1 Homogenous	2 tan	8 blue	14 various	Friable	2 granular	2 straight	1 clear	ino 2y		10	umosite	2 fiberglass	2 isotropic	2 binder
2 sheetrock	7 linoleum		3 gold	9 white	15 other	or	3 fibrous	3 splayed ends	2 tan				rocidolite	3 mineral wool	3 shot	3 CaSO4
3 roofing material	8 floor tile	2 Heterogeneou	4 yellow	10 red		Nonfriable	4 firm	4 fiber bundles	3 blue			2 oblique 4	nthophyllite	4 synthetic fiber	4 high birefringenc	4 CaCO <sub>2</sub>
4 soil	9 mastic/adhesive		5 silver	11 green			5 soft	5 single libers	4 brown	d yes, give col	or <u>Ek</u>	ongation 115	remolite	5 wollastonite	5 mult.elon.(flips)	5 Vermiculit
5 joint compound	10 plaster	3 Layered	6 gray	12 pink			6 paper-like	6 blocky	5 other		_		ictinolite	other	other	6 other
	Sample Desc Client-Supplied Data	rfptions Macroscopic		stos #1 Properties		tos #2 Properties	Asbes Optical F		% Ashestos Method el Qua			Method of Quar		n-Asbestos Type	(13) haracteristics <sup>14</sup>	Analyst's Notes
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1481663	Sample Type <sup>1</sup>	Visual Gross <sup>2</sup>	Fiber Color <sup>7</sup>	uD T	Fiber Color <sup>7</sup>	⊥	Fiber Color <sup>7</sup>	n <sub>D</sub> T	/ VAE		-	VAE				
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Field Sample #	Friability <sup>4</sup>	Sample Color <sup>3</sup>	Pleochroism	Extinction <sup>10</sup>	Pleochroism	Extinction <sup>10</sup>	Pleochroism <sup>8</sup>	Extinction <sup>10</sup>	1			PC				1
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1481664	Sample Type	Visual Gross <sup>2</sup>	Fiber Color <sup>7</sup>	n <sub>D</sub> ⊥	Fiber Color <sup>7</sup>	n <sub>D</sub> 1	Fiber Color <sup>7</sup>	n <sub>D</sub> ⊥	VAE			VAE				
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1481665		Visual Gross <sup>2</sup>	Morph <sup>6</sup>	nD II	Morph <sup>6</sup>	roperties nD II	Optical F Morph <sup>6</sup>					Method of Quar	_			
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Field Sample #	Friability <sup>4</sup>	Visual Gross <sup>2</sup> Sample Color <sup>3</sup>	Fiber Color <sup>7</sup>		Morph <sup>6</sup>	n <sub>D</sub> 1	Morph <sup>6</sup> Fiber Color <sup>7</sup>	nD II nD II	Method & Oue	78	. N	PC	_			
Field Sample #	Friability <sup>4</sup>		Fiber Color <sup>7</sup>	n <sub>D</sub> ⊥	Morph <sup>6</sup> Fiber Color <sup>7</sup>	n <sub>D</sub> II	Morph <sup>6</sup> Fiber Color <sup>7</sup>	nD II nD II	VAE	.78	. M	PC VAE	_			
	Friability <sup>4</sup>		Fiber Color <sup>7</sup>	n <sub>D</sub> ⊥	Morph <sup>6</sup> Fiber Color <sup>7</sup>	n <sub>D</sub> II	Morph <sup>6</sup> Fiber Color <sup>7</sup>	nD II nD II	Method & Oue 123456 VAE 123456 /	.78	. M	PC VAE PC	_			Notes
Field Sample # 02A		Sample Color <sup>3</sup>	Fiber Color <sup>7</sup> Pleochroism <sup>6</sup>	n <sub>D</sub> ⊥ Extinction <sup>10</sup>	Morph <sup>6</sup> Fiber Color <sup>7</sup> Pleochroism <sup>6</sup>	n <sub>D</sub>    n <sub>D</sub> ⊥ Extinction <sup>10</sup>	Morph <sup>6</sup> Fiber Color <sup>7</sup> Pleochroism <sup>8</sup>	nD II nD II nD L Extinction <sup>10</sup>	Method Loue 12 4 5 6 VAE 1234 5 6 / VAE 1234 5 6 /	.78	. M	PC VAE PC VAE PC	_			* SCAN Asbestos Stereo
		Sample Color <sup>3</sup>	Fiber Color <sup>7</sup> Pleochroism <sup>6</sup>	n <sub>D</sub> ⊥ Extinction <sup>10</sup>	Morph <sup>6</sup> Fiber Color <sup>7</sup> Pleochroism <sup>6</sup>	n <sub>D</sub>    n <sub>D</sub> ⊥ Extinction <sup>10</sup>	Morph <sup>6</sup> Fiber Color <sup>7</sup> Pleochroism <sup>8</sup>	nD II nD II nD L Extinction <sup>10</sup>	VAE	.78		PC VAE PC VAE PC VAE	t. %	Optical Ct	naracteristics <sup>14</sup>	Notes * SCAN Asbestos
02A		Sample Color <sup>3</sup>	Fiber Color <sup>7</sup> Pleochroism <sup>6</sup>	n <sub>D</sub> ⊥ Extinction <sup>10</sup>	Morph <sup>6</sup> Fiber Color <sup>7</sup> Pleochroism <sup>6</sup> Biret. <sup>9</sup>	<sup>II</sup> D II II Extinction <sup>10</sup> Elongation <sup>11</sup>	Morph <sup>6</sup> Fiber Color <sup>7</sup> Pleochroism <sup>8</sup>	roperties nD II nD ⊥ Extinction <sup>10</sup> Ekongation <sup>11</sup>	Method Loue 12 4 5 6 VAE 1234 5 6 / VAE 1234 5 6 /	78		PC VAE PC VAE PC	t. %	Optical Ct		* SCAN Asbestos Stereo
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02A	F or N	Sample Color <sup>3</sup> Y Texture <sup>5</sup> Non-A	Fiber Color <sup>7</sup> Pleochroism <sup>®</sup> Biref. <sup>9</sup> Sbestos Typ Optical F	nD 1 Extinction <sup>10</sup> Elongation <sup>11</sup>	Morph <sup>6</sup> Fiber Color <sup>7</sup> Pleochroism <sup>6</sup> Biref. <sup>9</sup>	nD II nD ⊥ Extinction <sup>10</sup> Elongation <sup>11</sup> e #2 roperties	Morph <sup>6</sup> Fiber Color <sup>7</sup> Pleochroism <sup>0</sup> Biref, <sup>9</sup> allytical I	roperties TD II TD II TD II TD II Extinction <sup>10</sup> Elongation <sup>11</sup> Elongation <sup>11</sup> Elongation <sup>11</sup> Elongation <sup>12</sup> Elongation <sup>13</sup> Elongation <sup>13</sup> Elongation <sup>14</sup> Elongation <sup>14</sup> Elongation <sup>15</sup> Elongation <sup>15</sup> Elongation <sup>15</sup> Elongation <sup>15</sup> Elongation <sup>15</sup> Elongation <sup>15</sup> Elongation <sup>16</sup> Elongation <sup>16</sup> Elongation <sup>17</sup> Elongation <sup>17</sup> Elongation <sup>16</sup> Elongation <sup>16</sup> Elongation <sup>17</sup> Elongation <sup>17</sup> Elongation <sup>17</sup> Elongation <sup>18</sup> Elongation <sup>18</sup> Elongation <sup>18</sup> Elongation <sup>19</sup> El	Method brows 12 4 6 6 VAE 1234 5 6 / VAE 1234 5 6 / VAE 1234 5 6 / VAE 5pecify if differ % Asbest Method Que	.78 .78 .78 .78 .78 		PC VAE PC VAE PC VAE	t. %	Optical Ct	naracteristics <sup>14</sup>	* SCAN Asbestos Stereo VAE %
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02A Asbestos-(	F or N Containing	Sample Color <sup>3</sup> Texture <sup>5</sup> Non-A riptions Macroscopic	Fiber Color <sup>7</sup> Pleochroism <sup>®</sup> Biref. <sup>9</sup> Sbestos Typ Optical F	nD 1 Extinction <sup>10</sup> Elongation <sup>11</sup>	Morph <sup>6</sup> Fiber Color <sup>7</sup> Pleochroism <sup>6</sup> Biref. <sup>9</sup>	nD II nD ⊥ Extinction <sup>10</sup> Elongation <sup>11</sup> e #2 roperties	Morph <sup>6</sup> Fiber Color <sup>7</sup> Pleochroism <sup>0</sup> Biref, <sup>9</sup> allytical I	roperties TD II TD II TD II TD II Extinction <sup>10</sup> Elongation <sup>11</sup> Elongation <sup>11</sup> Elongation <sup>11</sup> Elongation <sup>12</sup> Elongation <sup>13</sup> Elongation <sup>13</sup> Elongation <sup>14</sup> Elongation <sup>14</sup> Elongation <sup>15</sup> Elongation <sup>15</sup> Elongation <sup>15</sup> Elongation <sup>15</sup> Elongation <sup>15</sup> Elongation <sup>15</sup> Elongation <sup>16</sup> Elongation <sup>16</sup> Elongation <sup>17</sup> Elongation <sup>17</sup> Elongation <sup>16</sup> Elongation <sup>16</sup> Elongation <sup>17</sup> Elongation <sup>17</sup> Elongation <sup>17</sup> Elongation <sup>18</sup> Elongation <sup>18</sup> Elongation <sup>18</sup> Elongation <sup>19</sup> El	Method Loue           12         4         6           VAE         123456         /           123456         /         /           VAE         123456         /           Specify if differ         /         /           % Asbest         /         /           123456         /         /           VAE         /         /	78 78 78 78 ent os (12) 78		PC VAE PC VAE PC VAE Nonfibrou	t. %	Optical Ct	sentage	* SCAN Asbestos Stereo VAE %
02A Asbestos-( Lab Sample # 1481666	F or N Containing Sample Desc Client-Supplied Data Sample Type	Sample Color <sup>3</sup> Texture <sup>5</sup> Non-A riptions Macroscopic	Fiber Color <sup>7</sup> Pieochroism <sup>6</sup> Biret. <sup>9</sup> Sbestos Typ Optical F Morph <sup>6</sup>	n D ⊥ Extinction <sup>10</sup> Elongation <sup>11</sup> • <b>Contair</b> • ¢1 n D II	Morph <sup>6</sup> Fiber Color <sup>7</sup> Pleochroism <sup>6</sup> Biret. <sup>9</sup>	nD II nD 1 Extinction <sup>10</sup> Elongation <sup>11</sup> Elongation <sup>11</sup>	Morph <sup>6</sup> Fiber Color <sup>7</sup> Pleochroism <sup>0</sup> Biret. <sup>9</sup> allytical I Typ Optical F Morph <sup>6</sup>	Importles         Importles           Imp II         Importles           Imp I         Importles           Extinction <sup>10</sup> Importles           Ekongation <sup>11</sup> Importles           Imp II         Imp II           Imp II         Imp II	Method Loue 12 4 6 6 VAE 12 3 4 5 6 / VAE 12 3 4 5 6 / VAE	78 78 78 78 ent os (12) 78		PC VAE PC VAE PC VAE Nonfibrou	t. %	Optical Ct	sentage	* SCAN Asbestos Stereo VAE %
02A Asbestos-( Lab Sample #	F or N Containing Sample Desc Client-Supplied Data	Sample Color <sup>3</sup> Textura <sup>5</sup> Non-A riptions Macroscopic Visual Gross <sup>2</sup>	Fiber Color <sup>7</sup> Pleochroism <sup>®</sup> Biref. <sup>9</sup> Sbestos Typ Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup>	n D ⊥ Extinction <sup>10</sup> Elongation <sup>11</sup> • Contair • #1 noperties nD II nD ⊥	Morph <sup>6</sup> Fiber Color <sup>7</sup> Pleochroism <sup>6</sup> Biref. <sup>9</sup> Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup>	nD II           nD I           Extinction <sup>10</sup> Elongation <sup>11</sup> Elongation <sup>11</sup> e #2           Properties           nD II           nD I	Morph <sup>6</sup> Fiber Color <sup>7</sup> Pleochroism <sup>6</sup> Biref. <sup>9</sup> allytical I Typ Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup>	Importles         Importles           Imp II         Importles           Imp I         Importles           Extinction <sup>10</sup> Importles           Ekongation <sup>11</sup> Importles           Imp II         Imp II           Imp II         Imp II	Method Loue 12 4 5 6 VAE 1234 5 6 / VAE 1234 5 6 / VAE Specify if diller % Asbest Methodal Oue 12 4 5 6 / VAE 12 3 4 5 6 / VAE	78 78 78 78 ent os (12) 78		PC VAE PC VAE PC VAE Nonfibrou Aethod of Quar Aethod of Quar PC VAE PC	t. %	Optical Ct	sentage	* SCAN Asbestos Stereo VAE %
02A Asbestos-( Lab Sample # 1481666	F or N Containing Sample Desc Client-Supplied Data Sample Type	Sample Color <sup>3</sup> Texture <sup>5</sup> Non-A Inplions Macroscopic Visual Gross <sup>2</sup> Sample Color <sup>3</sup>	Fiber Color <sup>7</sup> Pleochroism <sup>®</sup> Biref. <sup>9</sup> Sbestos Typ Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup>	n D ⊥ Extinction <sup>10</sup> Elongation <sup>11</sup> • Contair • #1 noperties nD II nD ⊥	Morph <sup>6</sup> Fiber Color <sup>7</sup> Pleochroism <sup>6</sup> Biref. <sup>9</sup> Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup>	nD II           nD I           Extinction <sup>10</sup> Elongation <sup>11</sup> Elongation <sup>11</sup> e #2           Properties           nD II           nD I	Morph <sup>6</sup> Fiber Color <sup>7</sup> Pleochroism <sup>6</sup> Biref. <sup>9</sup> allytical I Typ Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup>	Importles         Importles           Imp II         Importles           Imp I         Importles           Extinction <sup>10</sup> Importles           Ekongation <sup>11</sup> Importles           Imp II         Imp II           Imp II         Imp II	Method Loue 12 4 5 6 VAE 1234 5 6 / VAE 1234 5 6 / VAE Specify if differ % Asbest Method LOUE 1234 5 6 / VAE 1234 5 6 / VAE	78 78 78 78 ent os (12) 78 78 78		PC VAE PC VAE PC VAE Nonfibrou Aethod of Quar	t. %	Page Non-Asbestos (1	sentage	* SCAN Asbestos Stereo VAE %
02A Asbestos-( Lab Sample # 1481666 Field Sample #	F or N Containing Sample Desc Client-Supplied Data Sample Type	Sample Color <sup>3</sup> Textura <sup>5</sup> Non-A riptions Macroscopic Visual Gross <sup>2</sup>	Fiber Color <sup>7</sup> Pleochroism <sup>®</sup> Biref. <sup>9</sup> Sbestos Typ Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup>	n D ⊥ Extinction <sup>10</sup> Elongation <sup>11</sup> • Contair • #1 noperties nD II nD ⊥	Morph <sup>6</sup> Fiber Color <sup>7</sup> Pleochroism <sup>6</sup> Biref. <sup>9</sup> Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup>	nD II           nD I           Extinction <sup>10</sup> Elongation <sup>11</sup> Elongation <sup>11</sup> e #2           Properties           nD II           nD I	Morph <sup>6</sup> Fiber Color <sup>7</sup> Pleochroism <sup>6</sup> Biref. <sup>9</sup> allytical I Typ Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup>	Importles         Importles           Imp II         Importles           Imp I         Importles           Extinction <sup>10</sup> Importles           Ekongation <sup>11</sup> Importles           Imp II         Imp II           Imp II         Imp II	Method Loue 12 4 5 6 VAE 1234 5 6 / VAE 1234 5 6 / VAE Specify if diller % Asbest Methodal Oue 12 4 5 6 / VAE 12 3 4 5 6 / VAE	78 78 78 78 ent os (12) 78 78 78		PC VAE PC VAE PC VAE Nonfibrou Aethod of Quar Aethod of Quar PC VAE PC	t. %	Page Non-Asbestos (1	sentage	* SCAN Asbestos Stereo VAE % Notes
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02A Asbestos-( Lab Sample # 1481666 Field Sample #	F or N Containing Sample Desc Client-Supplied Data Sample Type Friability <sup>4</sup>	Sample Color <sup>3</sup> Texture <sup>5</sup> Non-A Macroscopic Visual Gross <sup>2</sup> Sample Color <sup>3</sup>	Fiber Color <sup>7</sup> Pieochroism <sup>6</sup> Biret. <sup>9</sup> Sbestos Typ Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup> Pieochroism <sup>6</sup>	PD⊥ Extinction <sup>10</sup> Elongation <sup>11</sup> -Contair Popertles PDI PDI PDI PDI Extinction <sup>10</sup>	Morph <sup>6</sup> Fiber Color <sup>7</sup> Pleochroism <sup>6</sup> Biref. <sup>9</sup> ing C Viyp Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup>	nD II nD 1 Extinction <sup>10</sup> Elongation <sup>11</sup> Elongation <sup>11</sup> An e #2 roperties nD II nD 1 Extinction <sup>10</sup>	Morph <sup>6</sup> Fiber Color <sup>7</sup> Pieochroism <sup>6</sup> Biret. <sup>9</sup> allytical I Typ Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup> Pieochroism <sup>6</sup>	ropertles       nD II       nD II       Extinction <sup>10</sup> Extinction <sup>11</sup> Bit       Poperties       nD II       nD II       Extinction <sup>10</sup> Extinction <sup>10</sup> Extinction <sup>10</sup> Extinction <sup>10</sup>	Method Loue 123456 VAE 123456 / VAE 123456 / VAE 123456 / VAE 123456 / VAE 123456 / VAE 123456 / VAE 123456 / VAE	78 78 78 78 ent os (12) 78 78 78		PC VAE PC VAE PC VAE Nonfibrou Aethod of Quar PC VAE PC VAE PC VAE	t. %	Optical Ct P94 Non-Asbestos (1 Optical Ct	paracteristics <sup>14</sup>	* SCAN Asbestos Stereo VAE % Notes
02A Asbestos-( Lab Sample # 1481666 Field Sample # 02B	F or N Containing Sample Desc Client-Supplied Data Sample Type Friability <sup>4</sup>	Sample Color <sup>3</sup> Texture <sup>5</sup> Non-A riptions Macroscopic Visual Gross <sup>2</sup> Sample Color <sup>3</sup> Texture <sup>5</sup>	Fiber Color <sup>7</sup> Pieochroism <sup>6</sup> Biret. <sup>9</sup> Sbestos Typ Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup> Pieochroism <sup>6</sup>	Ekongation <sup>10</sup> Ekongation <sup>11</sup> Ekongation <sup>11</sup> <b>-Contair</b> <b>•</b> #1 <b>•</b> #1 <b>• •</b> #1 <b>• • • 1</b> <b>• 1</b> <b>1• 1</b> <b>1• 1• 1</b> <b>• 1•1</b>	Morph <sup>6</sup> Fiber Color <sup>7</sup> Pleochroism <sup>6</sup> Biref. <sup>9</sup> Pleochroism <sup>6</sup> Fiber Color <sup>7</sup> Pleochroism <sup>6</sup>	nD II nD 1 Extinction <sup>10</sup> Elongation <sup>11</sup> Coperfies nD II nD 1 Extinction <sup>10</sup> Elongation <sup>11</sup>	Morph <sup>6</sup> Fiber Color <sup>7</sup> Pieochroism <sup>6</sup> Biret. <sup>9</sup> allytical I Typ Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup> Pieochroism <sup>6</sup>	roperties PD II PD II PD II Extinction <sup>10</sup> Elongation <sup>11</sup> Extinction <sup>10</sup> Elongation <sup>11</sup>	Method Loue 123456 VAE 123456 / VAE 123456 / VAE 123456 / VAE 123456 / VAE 123456 / VAE 123456 / VAE 123456 / VAE	78 78 78 78 ent os (12) 78 78 78		PC VAE PC VAE PC VAE Nonfibrou Aethod of Quar PC VAE PC VAE PC VAE	t. %	Optical Ct P94 Non-Asbestos (1 Optical Ct	sentage	* SCAN Asbestos Stereo VAE % Notes
02A Asbestos-( Lab Sample # 1481666 Field Sample # 02B Asbestos-( PC: Point Count;	F or N Containing Sample Desc Client-Supplied Data Sample Type Friability F or N Containing VAE: (Calibrated)	Sample Color <sup>3</sup> Texture <sup>5</sup> Non-A riptions Macroscopic Visual Gross <sup>2</sup> Sample Color <sup>3</sup> Texture <sup>5</sup> Non-A Visual Area E	Fiber Color <sup>7</sup> Pieochroism <sup>6</sup> Biret. <sup>9</sup> Sbestos Typ Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup> Pieochroism <sup>6</sup> Biret. <sup>9</sup> Sbestos	n □ ⊥ Extinction <sup>10</sup> Elongation <sup>11</sup> -Contair n □ ⊥ Extinction <sup>10</sup> Extinction <sup>10</sup> Extinction <sup>10</sup>	Morph <sup>6</sup> Fiber Color <sup>7</sup> Pleochroism <sup>6</sup> Biret. <sup>9</sup> Pleochroism <sup>6</sup> Fiber Color <sup>7</sup> Pleochroism <sup>6</sup> Fiber Color <sup>7</sup> Pleochroism <sup>6</sup> Biret. <sup>9</sup> and Color <sup>7</sup> Pleochroism <sup>6</sup> Biret. <sup>9</sup> and Color <sup>7</sup>	nD II nD 1 Extinction <sup>10</sup> Elongation <sup>11</sup> Elongation <sup>11</sup> Elongation <sup>11</sup> Extinction <sup>10</sup> Extinction <sup>10</sup>	Morph <sup>6</sup> Fiber Color <sup>7</sup> Pleochroism <sup>0</sup> Biret. <sup>9</sup> allytical 1 Morph <sup>6</sup> Fiber Color <sup>7</sup> Pleochroism <sup>0</sup> Biret. <sup>9</sup> Biret. <sup>9</sup> Copical Pleochroism <sup>0</sup> Biret. <sup>9</sup> Copical Color <sup>7</sup> Biret. <sup>9</sup> Copical Color <sup>7</sup> Biret. <sup>9</sup> Copical Color <sup>7</sup> Copical Color <sup>8</sup> Copical Color <sup>8</sup> Copical Color <sup>8</sup> Copical Color <sup>8</sup> Copical Color <sup>9</sup> Copical Copical Color <sup>9</sup> Copical	Importles         Importles           nD II         n           nD II         Importles           nD II         Importles           Extinction <sup>10</sup> Importles           Importles         Importles           nD II         Importles           Importles         Importles <t< td=""><td>Method Loue 123456 VAE 123456 / VAE</td><td>78 78 78 78 78 601 78 78 78 78 78 78</td><td>. h</td><td>PC VAE PC VAE PC VAE Nonfibrou VAE PC VAE PC VAE PC VAE</td><td>t. %</td><td>Optical Ct</td><td>aracteristics <sup>14</sup></td><td>* SCAN Asbestos Stereo VAE % Notes * SCAN Asbestos Stereo VAE %</td></t<>	Method Loue 123456 VAE 123456 / VAE	78 78 78 78 78 601 78 78 78 78 78 78	. h	PC VAE PC VAE PC VAE Nonfibrou VAE PC VAE PC VAE PC VAE	t. %	Optical Ct	aracteristics <sup>14</sup>	* SCAN Asbestos Stereo VAE % Notes * SCAN Asbestos Stereo VAE %
02A Asbestos-( Lab Sample # 1481666 Field Sample # 02B Asbestos-( PC: Point Count; Analytical Me	F or N Containing Sample Desc Client-Supplied Data Sample Type Friability F or N Containing VAE: (Calibrated)	Sample Color <sup>3</sup> Texture <sup>5</sup> Non-A Inplions Macroscopic Visual Gross <sup>2</sup> Sample Color <sup>3</sup> Texture <sup>5</sup> Non-A Visual Area E 'If usir	Fiber Color <sup>7</sup> Pleochroism <sup>6</sup> Biref. <sup>9</sup> Sbestos Typ Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup> Pleochroism <sup>6</sup> Biref. <sup>9</sup>	rp_L     Extinction <sup>10</sup> Elongation <sup>11</sup> Elongation <sup>11</sup> roperties     nD II     nD II     nD II     Elongation <sup>10</sup> Elongation <sup>11</sup> Elongation <sup>11</sup> Neight Percon for ELAP	Morph <sup>6</sup> Fiber Color <sup>7</sup> Pleochroism <sup>6</sup> Biret. <sup>9</sup> Pleochroism <sup>6</sup> Fiber Color <sup>7</sup> Pleochroism <sup>6</sup> Fiber Color <sup>7</sup> Pleochroism <sup>6</sup> Biret. <sup>9</sup> and Color <sup>7</sup> Pleochroism <sup>6</sup> Biret. <sup>9</sup> and Color <sup>7</sup>	nD II nD L Extinction <sup>10</sup> Elongation <sup>11</sup> Elongation <sup>11</sup> Elongation <sup>11</sup> Elongation <sup>11</sup> Elongation <sup>11</sup>	Morph <sup>6</sup> Fiber Color <sup>7</sup> Pieochroism <sup>6</sup> Biret. <sup>9</sup> allytical I Typ Optical Fiber Color <sup>7</sup> Fiber Color <sup>7</sup> Pieochroism <sup>6</sup> Biret. <sup>9</sup> Biret. <sup>9</sup> Coptical I	Importles         Importles           nD II         n           nD II         Importles           nD II         Importles           Extinction <sup>10</sup> Importles           Importles         Importles           nD II         Importles           Importles         Importles <t< td=""><td>Method Loue 123456 VAE 123456 / VAE</td><td>78 78 78 78 78 78 78 78 78 78 78 78 78 7</td><td></td><td>PC VAE PC VAE PC VAE Nonfibrov VAE PC VAE PC VAE PC VAE PC</td><td>t. %</td><td>Optical Ct</td><td>aracteristics<sup>14</sup></td><td>* SCAN Asbestos Stereo VAE % Notes * SCAN Asbestos Stereo VAE %</td></t<>	Method Loue 123456 VAE 123456 / VAE	78 78 78 78 78 78 78 78 78 78 78 78 78 7		PC VAE PC VAE PC VAE Nonfibrov VAE PC VAE PC VAE PC VAE PC	t. %	Optical Ct	aracteristics <sup>14</sup>	* SCAN Asbestos Stereo VAE % Notes * SCAN Asbestos Stereo VAE %

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BATT	A PLM	Ben	ch S	hee	t			mpus 22181	0 (Scope #3)	Nikon :	222212 (Scop	e #5)	Page 2 of	19	
PLM Scope	ID#: Nikor	1 202306 (Sco	ope #1)	Leica	DM750P (S	Scope #2)		mpus 24033	5 (Scope #4)	Nikon	102293 (Scop	e #6)	Olympu	s 202705 (Scor	pe #7)
			BLI P	roject #	<u>L36</u>	<u>3524</u>	Nar	ne of Cli	ient/Project	t: <u>109</u>	3723K-ł	APPY	HOLLOW	REC. CE	INTEF
Samp	le Туре <sup>1</sup>	Visual Gross <sup>2</sup>		Sample Color	3	4 Friability	Sample Texture	Morphology	6 Fiber Color (in plane light)	Pleochroism <sup>8</sup>	9 <u>Bire</u> 1-ko 3-hi	Asbestos 12 Types	12		Non-Fibrous Types
Temperature (°C):			1 black	7 brown	13 orange		1 cementic.	1 wavy			2 medium	chrysotile	1 celtulose 1 u	Incluiose ext. 1	1 matrix
1 insulation 2 sheetrock	6 ceiling tile 7 linoleum	1 Homogenous	2 lan 3 gold	8 blue 9 white	14 various 15 other	Friable	2 granular 3 librous	2 straight 3 splayed end	1 clear s 2 tan	1 no 2 yes	Extinction 1 parallel	amosite crocidolite			2 binder 3 CaSO₄
3 roofing material	8 floor tile	2 Heterogeneous		10 red		Nontriable	4 firm	4 liber bundle			2 oblique	anthophyllite	4 synthetic fiber 4 h	high birefringence 4	CaCO <sub>2</sub>
4 soil	9 mastic/adhesive		5 silver	11 green				5 single fibers		if yes, give color		5 tremolite			5 Vermiculite
5 joint compound	10 plaster Sample Desc	3 Layered	6 gray Asbes	12 pink	Ache	stos #2	6 paper-like Asbes	6 blocky	5 other % Aspestos	Type (12)	+ or - (	<ul> <li>Actinolite</li> <li>Fibrous No</li> </ul>	n-Asbestos Type (13		5 other Analyst's
Lab Sample #	Client-Supplied Data	Macroscopic	Optical P			Properties		roperties	Methop of Qu		Method of Qu		Optical Chara		Notes
	Sample Type	Visual Gross <sup>2</sup>	Morph <sup>6</sup>	nD II	Morph <sup>6</sup>	"D II	Morph <sup>6</sup>	<sup>n</sup> D II	1234 91	578	PC	1			
1481667			Fiber Color <sup>7</sup>	uD T	Fiber Color <sup>7</sup>	nDT	Fiber Color <sup>7</sup>	n <sub>D</sub> ⊥	VAE				1		
	0								1234 5	678					
Field Sample #	Friability <sup>4</sup>	Sample/Color"	Pleochroism	Extinction 10	Pleochroism	Extinction <sup>10</sup>	Pleochroism	Extinction	1		PC		-		
		8				/			VAE		VAE				* scan
03A	F or N	Texture <sup>5</sup>	Biref. <sup>9</sup>	Elongation11	Biref. <sup>9</sup>	Elongation <sup>11</sup>	Bire1.9	Elongation <sup>11</sup>	1234 5	678	PC			1	Asbestos Stereo
		9							VAE		VAE	:	]		VAE %
		, Nov 4		Ormania		A.,		lathad	tlassfatter		Nonfibr	ous Types"	5 Percer	ntage	
Aspestos-	Containing		sbestos	e #1				e #3	tandaterγ % Asbes	tos (12)	_ <u> </u>	% Fibrous	Non-Asbestos (13)	=	Analyst's
Lab Sample #	Client-Supplied Data	Macroscopic	Optical F	roperties	Optical	Properties	Optical P	roperties	Method of Ou		Method of Qu	iant. %	Optical Chara	acteristics <sup>14</sup>	Notes
	Sample Type <sup>1</sup>	Visual Gross <sup>2</sup>	Morph <sup>®</sup>	<sup>n</sup> D II	Morph <sup>6</sup>	n <sub>D II</sub>	Morph <sup>6</sup>	n <sub>D</sub> II	12:4	578	PC				
1481668	<u> </u>		Fiber Color <sup>7</sup>	nD ⊤	Fiber Color <sup>7</sup>	_uD ⊤	Fiber Color <sup>7</sup>	n <sub>D</sub> ⊥	VAE		VAI		]		
<u> </u>		Consta Color <sup>3</sup>	Pleochroism <sup>8</sup>	Extinction <sup>10</sup>	Pleochroism	Extinction <sup>10</sup>	Pleochroism <sup>8</sup>	Extinction <sup>10</sup>	1234 5	678	PC				
Field Sample #	Friability <sup>4</sup>	Sample Color	Pieuchroisin	Expression	Pieucisiosi	EXUNCTION	Piedchiolom	EXINGUI	VAE			-	-		
		0							1234 5						* SCAN Asbestos
03B	F or N	Texture	Birel. <sup>9</sup>	Elongation'	Biref.	Elongation	Biret. <sup>9</sup>	Elongation''	/		PC		4	ľ	Sterep
					$\square$				VAE		VAI		Barrar		VAE %
Asbestos-	Containing D	Non-A	sbestos	-Contai	ning 🖟	An	alytical l	Method:	Specify if diffe	rent	Nonfibi	ous Types'		lage	C
	Sample Des		-	e#1	Тут			e#3	% Asbes				Non-Asbestos (13)		Analyst's Notes
Lab Sample #	Client-Supplied Data	Macroscopic	Optical I Morph <sup>6</sup>	nD II	Morph <sup>6</sup>	Properties nD II	Morph <sup>6</sup>	Properties In D II	Method of Qu		Method of Q	iant. %	Optical Chara	acteristics"	NOIBS
1481669	Sample Type <sup>1</sup>	Visual Gross <sup>2</sup>	Fiber Color <sup>7</sup>	n <sub>D</sub> ⊥	Fiber Color <sup>7</sup>	n <sub>D</sub> T	Fiber Color <sup>7</sup>	npl	7				-		
1401000	9	142	TIDET COLOT						VAE		VAE				
Field Sample #	Friability <sup>4</sup>	Sample Color	<sup>3</sup> Pleochroism <sup>8</sup>	Extinction <sup>10</sup>	Pleochroism	Extinction <sup>10</sup>	Pleochroism	Extinction <sup>10</sup>	12345	678	PC	1			
T Kita Gumpio #	Рпаряну	4							VAE		VAI		]		* scan
	ForN	Texture <sup>5</sup>	Biref. <sup>9</sup>	Elongation	Biref. <sup>9</sup>	Elongation <sup>1</sup>	Biref. <sup>9</sup>	Elongation <sup>11</sup>	12345	678	PC				Asbestos
04A		$\square$							VAE		VAI	: ,	1		Stereo VAE %
			1							_	Nonfib	ous Types	5 Percer	nage	P
Asbestos-	Containing Des		Asbestos	-Contai		Ar pe #2	alytical	Method:	Specify if diffe	stos (12)		% Fibrous	Non-Asbestos (13)		Analyst's
Lab Sample #	Client-Supplied Data	Macroscopic	-	Properties		Properties		Properties	Method of Ou	and. %	Method of Q		Optical Char	acterístics14	Notes
	Sample Type <sup>1</sup>	Visual Gross <sup>2</sup>	Morph <sup>6</sup>	n <sub>D</sub> II	Morph <sup>6</sup>	n <sub>D</sub> II	Morph <sup>6</sup>	n <sub>D</sub> II	12 4	678	PC				
1481670	6		Fiber Color <sup>7</sup>	nD⊤	Fiber Color	n <sub>D</sub> I	Fiber Color <sup>7</sup>	п <sub>D</sub> т	VAE				1		
			1 1	10				10	12345	678	PC				
Field Sample #	Friability <sup>4</sup>	Sample Color	Pleochroism	Extinction <sup>10</sup>	Pleochroism	Extinction <sup>10</sup>	Pleochroism	Extinction	1						
	-	4							1234 5		VA				* scan
04B	F or N	Textuse <sup>5</sup>	Biref. <sup>9</sup>	Elongation <sup>1</sup>	<sup>1</sup> Bire1. <sup>9</sup>	Elongation <sup>1</sup>	<sup>1</sup> Biref. <sup>9</sup>	Elongation <sup>11</sup>	1		PC			ľ	Asbestos Stereo
					$\square$				VAE	:	V A				VAE %
Asbestos-	Containing D	Non-	Asbestos	Contai	ning	Ar	alytical	Method:	Specity if diffe	arent	Nonfib	rous Types	5 Perce		U
	; VAE: (Calibrated)	-							Analysis:	L	1191	X	Analyst:	-110	
Analytical Me	ethods:	* If usi	ng scan opti	on for ELA	P, circle sca	n in notes t				stos containin	g vs. hon-asb	estos conta	ning is based on	EPA NESHAPs	s definition.
	3/116 Without Grav 3/116 With Gravim				0/R-93/116 OB Chatfiel		t Count				ate of New Jer (RB 435:	sey DOLAV	VD Method (38 N	.J.R. 2526)	
	3/116: 400 Point Co						d Point Cour	nt)			ner (specify):				

#### **BATTA PLM Bench Sheet** Page 3 of 9 Olympus 221810 (Scope #3) Nikon 222212 (Scope #5) PLM Scope ID#: Nikon 202306 (Scope #1) Leica DM750P (Scope #2) Olympus 240335 (Scope #4) Nikon 102293 (Scope #6) Olympus 202705 (Scope #7) 1093723K-HAPPY HOLLOW REC. CENTER **BLI Project #** L363524 Name of Client/Project: Fiber Color Asbestos Optical/Morph Non-Fibrou Sample Non-Asbesto Bire<sup>9</sup> 6 Morphology Pleochroism<sup>8</sup> Sample Type<sup>1</sup> Sample Color rlability Types<sup>13</sup> Types<sup>15</sup> Visual Gross (in plane light) Texture<sup>5</sup> Types<sup>12</sup> Characteristics 1 1-lo 3-hi Temperature (°C): black 7 brown 13 orange comentic 2 medium chrysotik 1 cellulose 1 undulose ext matrix Friable 6 ceiling tile 14 various granular 2 straight clear 2 yes Extinction amosite fiberglass isotropic binder insulation 2 tan 8 blue Homogenous i no 3 CaSO4 3 splayed ends crocidolite 3 mineral wool 3 shot sheetrock 7 linoleum 3 gold 9 white 15 other\_ 3 fibrous tan ? 1 parallel or 4 yellow 4 CaCO<sub>2</sub> 3 roofing material 8 floor tile Heter 10 red Nonfriable 4 firm 4 fiber bundles 3 blue 2 oblique anthophytit 4 synthetic fibe 4 high birefringen 11 green Vermicuti l soi 9 mastic/adhesiv sitve soft single fiber brown Elongation wollastonite 5 mult.elon.(flips) if yes, give colo 5 other 5 other 5 joint compound 10 plaster 12 pink 6 blocky + or actinolite other 3 Layered 6 gray 6 paper-like Sample Description Asbestos #1 Asbestos #2 Asbestos #3 % Asb % Fibrous Non-Asbestos Type (13) Analyst's stos Type (12) Method of Quant. Notes Client-Supplied Data Macros Optical Propertie Optical Properties Optical Properties Method of Quant. % % Optical Characteristics Lab Sample # n<sub>D</sub> II nD II Morph<sup>6</sup> nD II Morph 12 4 9678 Morph PC Sample Type Visual Gross n<sub>D</sub> I nD 1 n<sub>D</sub> I 1481671 -iber Colo VAE VAE KAJE DOAL 1234 5678 PC Extinction Extinction Sample Color Pleochroism leochroism **Extinction** Pleochroism 1 Field Sample # Friability VAE VAE scan 1234 5678 Asbestos Texture<sup>5</sup> Biref.<sup>9</sup> Iongation Biref.<sup>9</sup> Elongation PC F or N Elongation Biref 05A Stereo, VAE % VAE VAE U Nonfibrous Type Percentage 1 Asbestos-Containing Non-Asbestos-Containing **Analytical Method:** Type #2 Type #3 % Asbestos (12) % Fibrous Non-Asbestos (13) Analyst's Sample Descriptions Type #1 Method of Quant. 12345678 Client-Supplied Data Macroscopic Optical Properties Optical Propertie Optical Propertie Method of Quant. Notes % Lab Sample # Optical Characterist nD II n<sub>D 11</sub> nD II Morph Morph<sup>6</sup> Morph PC Sample Type Visual Gross nD T n<sub>D</sub> 1 1481672 Fiber Color n<sub>D</sub> 1 Fiber Color Fiber Color VAE VAE Baseboard 1234 5678 Extinction Extinction leochroisn Extinction PC Sample Cold leochroisr Pleochroist 7 Field Sample # Friability VAF VAE scan 1234 5678 Asbestos PC Texture<sup>5</sup> Biref.<sup>9</sup> Rinef<sup>9</sup> F or N Elongation Biref. Elongation Elongation 05B Stereo VAE % VAE VAE L Percentage Nonfibrous Types Ó Asbestos-Containing Non-Asbestos-Containing **Analytical Method:** Sample Descriptions Type #3 % Asbestos (12) % Fibrous Non-Asbestos (13) Analyst's Type #2 Type #1 Notes Client-Supplied Data Macroscopi Optical Properties Optical Properties Optical Properties Method Quant. Method of Quant. % Optical Characteristic: % Lab Sample # nD II nD II nD II Morph<sup>6</sup> Morph<sup>6</sup> Morph<sup>6</sup> PC Sample Type Visual Gross uD T 1481673 nD T n<sub>D</sub> 1 Fiber Color Fiber Color Fiber Color VAE VAE 1234 5678 PC ample Col leochroisr Extinction leochr Extinction leochroisr Extinction Field Sample # Friability L VAE VAE scan 1234 5678 Asbestos 9 PC E or N Textu Biref.<sup>9</sup> Elongation Bin Elongation Birel.9 Elongation 06A Stereo VAE % VAE VAE Percentage 0 Nonfibrous Type Asbestos-Containing Non-Asbestos-Containing Analytical Method: Type#1 Туре #3 % Asbestos (12) s Non-Aspestos (13) Analyst's Sample Descriptions Type #2 Notes Method e Quant. 1234 5678 Method of Quant. Client-Supplied Data Macroscopic **Optical Properties** Optical Properties Optical Properties % % Optical Characteristics Lab Sample # n<sub>D</sub> II Morph<sup>6</sup> n<sub>D</sub> II n<sub>D</sub> II Morph<sup>6</sup> Morph PC Sample Type<sup>1</sup> Visual Gross nD 1 υĎΤ 1481674 n<sub>D</sub> I Fiber Color Fiber Color Fiber Colo VAE VAE U 1234 5678 PC ample Col eochrois Extinction leochrois Extinction<sup>1</sup> eochroisi Extinction Field Sample # Friability VAE ι VAE scan 1234 5678 Asbestos Bire1.9 PC E or N Texture<sup>5</sup> Biref.<sup>9</sup> Biref.<sup>9</sup> Flongation Elongation Elongation 06B Stereo VAE % VAE VAE Rercentage Nonfibrous Types Ŭ Non-Asbestos Containing Asbestos-Containing Analytical Method: Specify if differen PC: Point Count; VAE: (Calibrated) Visual Area Estimate (in Weight Percent) Date of Analysis: Analyst: non-asbestos containing is based on EPA NESHAPs definition. Analytical Methods: Note: Definition of asbestos containing If using scan option for ELAP, circle scan in notes block 7. State of New Jersey DOLAWD Method (38 N.J.R. 2526) 1. EPA/600/R-93/116 Without Gravimetry 4. EPA/600/R-93/116: 1000 Point Count 8. CARB 435 2. EPA/600/R-93/116 With Gravimetry 5. PLM NOB Chatfield Method 6. NYDOH ELAP 198.1 (Stratified Point Count) 3. EPA/600/R-93/116: 400 Point Count 9. Other (specify):

#### **BATTA PLM Bench Sheet** Olympus 221810 (Scope #3) Nikon 222212 (Scope #5) Page 4 of 9 PLM Scope ID#: Nikon 202306 (Scope #1) Vikon 202306 (Scope #2) Olympus 240335 (Scope #4) Nikon 102293 (Scope #6) Olympus 202705 (Scope #7) 1093723K-HAPPY HOLLOW REC. CENTER BLI Project # L363524 Name of Client/Project: Sample Fiber Color Asbestos Non-Asbesto Optical/Morph Non-Fibrou Bire<sup>9</sup> Morphology<sup>6</sup> Sample Color<sup>3</sup> Pleochroism<sup>8</sup> 4 riabiity Sample Type<sup>1</sup> Visual Gross<sup>2</sup> Types<sup>12</sup> Types<sup>13</sup> Types<sup>15</sup> Characteristics Texture (in plane light) 1-lo 3-hi Temperature (°C): black 7 hrown 13 orange cementic 1 waw 2 medium 1 chrysotile L cellulose 1 undulose ext matrix Friable binder insulation 6 ceiling tile 2 tan 8 blue 14 various granular 2 straight clear 2 yes Extinction amosite 2 fiberglass 2 isotropic no Homogenous 3 CaSO4 sheetrock 7 linoleum 9 white 15 other\_\_ 3 fibrous 3 splayed ends 2 tan 1 parallel crocidolite 3 mineral wool 3 shot 3 gold or 4 high birefringence 4 CaCO 3 roofing material 8 floor tile 2 Hete 4 vellow 10 red Nontriable 4 firm 4 fiber bundles 3 blue 2 oblique anthophyllite 4 synthetic fibe 4 browr 9 mastic/adhesiv 5 single fibers wollastonite mult.elon.(Ilips) Vermiculit soil silver 11 greer soft Elongation I yes. give colo 5 joint compound 10 plaster 6 paper-like 6 blocky 5 other actinolite 6 other 6 gray 12 pink + or other other 3 Lavered Asbestos #1 Asbestos #2 Achestos #3 % Aspestos Type (12) % Fibrous Non-Ashestos Type (13) Analyst's Sample Descriptions Optical Properties Optical Properties Method et Quant. Method of Quant. Notes Client-Supplied Data Macroscopic Optical Properties % Optical Characteristic: Lab Sample # nD II nD II nD II Morph<sup>6</sup> 1234 \$678 Morph<sup>6</sup> Morph<sup>6</sup> PC Sample Type Visual Gross n<sub>D</sub> 1 n<sub>D</sub> 1 1481675 1 пDТ Fiber Colo Fiber Colo Fiber Colo VAE VAE 541 VEAN 1234 5678 PC Extinction leochroism Extinction Sample Color Pleochroism Extinction leochroisn Field Sample # Friability<sup>4</sup> 2 VAE VAF scan 1234 5678 Biref 9 Asbestos F or N <sup>2</sup>erutxeT Biref.<sup>9</sup> Elongation Elongation Binef<sup>9</sup> Elongation PC 07A Stereo $\boldsymbol{L}$ VAE % VAE VAE Nonfibrous Percentage Type: Asbestos-Containing $\mathcal{T}$ 0 Non-Asbestos-Containing **Analytical Method:** Sample Descriptions Type #1 % Asbestos (12) Type #2 Type #3 % Fibrous Non-Asbestos (13) Analyst's Methodol Quant. Notes Client-Supplied Data Macroscopic Optical Properties Optical Properties Ontical Properties Method of Quant % Optical Characteristic Lab Sample # nD II <sup>n</sup>D II nD II Morph<sup>6</sup> Morph Morph<sup>6</sup> PC Sample Type Visual Gross 1481676 nDT ηDΤ n<sub>D</sub> 1 Fiber Color Fiber Color Fiber Color VAE VAE 141/ \$ ~ D W 1234 5678 ample Col leochrois Extinction leochrois Extinction leochrois Extinction PC 1 Field Sample # Friability<sup>4</sup> VAE VAE L scan 1234 5678 Asbestos Texture<sup>5</sup> Biref.9 Biref.<sup>9</sup> PC F or N Biref<sup>1</sup> Flongation Elongation Elongation 07B Stereo $\boldsymbol{\nu}$ VAE % VAE VAE Nonfibrous Types Percentage 0 Asbestos-Containing Non-Asbestos-Containing Analytical Method: 0 Z Sample Descriptions Type #1 Туре #3 % Asbestos (12) Fibrous Nor Asbestos (13) Analysť Type #2 Notes Client-Supplied Data Macroscopic **Optical Properties Optical Properties Optical Properties** Method of Quant. % Method of Quant. % **Optical Characteristics** Lab Sample # 1.22 Morph<sup>6</sup> n<sub>D</sub> II n<sub>D</sub> II Morph<sup>6</sup> Morp PC Sample Type Visual Gr 1481677 n<sub>D</sub> ⊥ n<sub>D</sub> T 72 Fiber Color Fiber Colo Fiber Colo g VAE VAE 5]. 1234 5678 PC Extinction leochroisn Extinction Sample Cold leochrol Extinction leochrois Field Sample # Friability VAE VAE scan 1234 5678 Asbestos Biref.<sup>9</sup> PC Biref.<sup>9</sup> Biref.9 F or N Texture Elongation Elongation Elongation 08A Stereo -VAE % VAE VAE Ó Nonfibrous Type Perceptage Asbestos-Containing Non-Asbestos-Containing Analytical Method: 7 % Asbestos (12) Analyst's Sample Descriptions Type #1 Туре #2 Type #3 % Fibrous Non-Asbestos (13 Notes Method of Quant Method of Quant. Client-Supplied Data Macroscopic Optical Properties **Optical Properties Optical Properties** Optical Characteristics<sup>14</sup> % % Lab Sample # 1234 5678 ND II <sup>n</sup>D II nD II Morph<sup>6</sup> Morph<sup>6</sup> Morph PC Sample Type Visual Gross nD T 1481678 n<sub>D</sub> I n<sub>D</sub> 1 Fiber Color Fiber Color Fiber Color VAF VAF 1234 5678 PC Sample Colo Extinction Pleochroisr Extinction Extinction ochroisn Field Sample # Friability VAL VAE scan 1234 5678 Asbestos PC F or N Biref.9 Biref.9 Biref.9 Texture<sup>5</sup> Elongation Elongation Elongation 08B Stereo VAE VA VAE % Percentage Nonfibrous Types Asbestos-Containing Non-Asbestos Containing Analytical Method: Specify if different 4 PC: Point Count; VAE: (Calibrated) Visual Area Estimate (in Weight Percent) Date of Analysis: Analyst: 101 Note: Definition of asbestos containing vs. non-asbestos containing is based on EPA NESHAPs definition. 7. State of New Jersey DOLAWD Method (38 N.J.R. 2526) Analytical Methods: \* If using scan option for ELAP, circle scan in notes block 1. EPA/600/R-93/116 Without Gravimetry 4. EPA/600/R-93/116: 1000 Point Count 2. EPA/600/R-93/116 V

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Vith Gravimetry	<ol><li>PLM NOB Chatfield Method</li></ol>
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3. EPA/600/R-93/116:

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9. Other (specify)

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							1 - =	mpus 221810				22212 (Scope #5		Page 5 of 9	
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			BLI P	roject #	L36	3524	Nar	me of Cli	ent/Project	: <u>1</u>	093	3723K-HA	PPY	HOLLOW REC. C	ENTER
							Sample		Fiber Color			9 As	bestos	Non-Asbestos Optical/Morph.	Non-Fibrous
Sampl	е Туре	Visual Gross <sup>2</sup>		Sample Color	3	Friability	6 erutxeT	Morphology	(in plane light)	Pleochroi	sm <sup>8</sup>	Bire 1-ko 3-hi Ty	12 pes	Types <sup>13</sup> Characteristics <sup>14</sup>	15 Types
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1 insulation	6 ceiling tile	1 Homogenous	2 tan	8 blue	14 various	Friable	2 granular	2 straight	1 clear	1 no á	2 yes	Extinction 10 2 am	osite	2 liberglass 2 isotropic	2 binder
2 sheetrock	7 linoleum		3 gold	9 white	15 other	or	3 fibrous	3 splayed ends	2 tan			1 parallel 3 cro	cidolite	3 mineral wool 3 shot	3 CaSO4
3 rooling material	8 floor tile	2 Heterogeneous	4 yellow	10 red		Noníriable	4 firm	4 fiber bundles	3 blue			2 oblique 4 ani	hophyllite	4 synthetic fiber 4 high birefringence	4 CaCO <sub>2</sub>
4 soil 5 joint compound	9 mastic/adhesive 10 plaster	a	5 silver	11 green			5 soft 6 paper-like	5 single fibers 6 blocky	4 brown 5 other	sf yes, give	color	Elongation 5 tre + or - 6 ac			5 Vermiculite 6 other
15 Join compound		3 Layered	6 gray	12 pink		stos #2	Asbes		% Asbestos		_	1272		n-Asbestos Type (13)	
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09A		10	(			<del> </del>			VAE	- +	-	VAE			Stereo VAE %
L		4		)									Times <sup>15</sup>	Percentage	
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Lab Sample #	Client-Supplied Data	Macroscopic	Optical F	roperties		Properties	Optical P	roperties	Method of Qua		%	Method of Quant.	%	Optical Characteristics <sup>14</sup>	Notes
	Sample Type	Visual Gross <sup>2</sup>	Morph <sup>6</sup>	nD II	Morph <sup>6</sup>	n <sub>D</sub> II	Morph <sup>6</sup>	<sup>n</sup> D II	1234 50	678	- 7	PC			
1481680	Sample (ype	VISUAL GIOSS	Fiber Color	n <sub>D</sub> L	Fiber Celor <sup>7</sup>	n <sub>D</sub> ⊥	Fiber Color <sup>7</sup>	nDI				VAF		1	PR
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		Sample Color <sup>3</sup>	Pleochroism <sup>8</sup>	Extinction <sup>10</sup>	Pleochroism	<sup>8</sup> Extinction <sup>10</sup>	Pleochroism <sup>8</sup>	Extinction <sup>10</sup>	1234 50	578		PC			2.1
Field Sample #	Friability <sup>4</sup>								VAE		/	VAE			
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000									VAE	:		VAE			VAE %
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r	Sample Desc	1		e#1		xe #2		e#3	% Asbes			Method of Quant.		Non-Asbestos (13)	Analyst's Notes
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Field Sample #	Friability <sup>4</sup>	Sample Color <sup>3</sup>	Pleochroism <sup>8</sup>	Extinction <sup>10</sup>	Pleochroism	Extinction <sup>10</sup>	Pleochroism	Extinction <sup>10</sup>	1			PC	1.0		
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	E N	Texture <sup>5</sup>	Biref. <sup>9</sup>	Elongation <sup>11</sup>	Biref.	Elongation	Biref. <sup>9</sup>	Elongation <sup>11</sup>	1234 5	678		PC			Asbestos
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	-0	Samely Cut 3	Diacaharia 6	Extinction <sup>10</sup>	Blocobrol	8 10	Pleochroism	<sup>8</sup> Extinction <sup>10</sup>	1234 5	678	-19	PC			1
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		4							VAE			VAE			* scan
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Analytical Me 1. EPA/600/R-93	thods: 1/116 Without Grav		ng scan opti			n in notes b : 1000 Poin		Note: De	minition of asbes	stos conta 7	. Stat	vs. non-astesto e ol New Jersev	s contair DOLAW	ning is based on EPA NESHAP /D Method (38 N.J.R. 2526)	s definition.
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	ID#:				DM750P (S	Scone #2)		mpus 221810 mpus 240335				2212 (Scop 2293 (Scop			pus 202705 (Si	
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Samp	1 Кө Турө	Visual Gross <sup>2</sup>		Sample Color	3	4 Friability	Sample Texture	Morphology <sup>6</sup>	Fiber Color , (in plane light)	Pleochroisr	n <sup>8</sup>	9 <u>Bire</u> 1-lo 3-hi	Asbestos 12 Types	Non-Asbestos 13 Types	Optical/Morph. 14 Characteristics	Non-Fibre Types
mperature (°C):			1 black	7 brown	13 orange		1 cementic.	1 wavy				2 medium	1 chrysotile	1 cellulose	1 undulose ext.	1 matrix
isulation heetrock	6 ceiling tile 7 linoleum	1 Homogenous	2 tan 3 gold	8 blue 9 white	14 various 15 other	Friable	2 granular 3 fibrous	2 straight 3 splayed ends	1 clear 2 tan	1 no 2 y	yes	Extinction 1 parallel	2 amosite 3 crocidolite	2 fiberglass 3 mineral wool	2 isotropic 3 shot	2 binder 3 CaSO4
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oil	9 mastic/adhesive		5 silver	11 green			5 soft	5 single fibers	4 brown	d yes, give co	olor	Elongation 11	5 tremolite	5 wollastonite	5 mult.elon.(flips)	5 Vermici
int compound	10 plaster	3 Layered	6 gray	12 pink		I	6 paper-like	6 blocky	5 other			+ or -	6 actinolite	other	other	6 other
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481683	Sample Type <sup>1</sup>	Visual Gross <sup>2</sup>	Fiber Color <sup>7</sup>	nD T	Fiber Color <sup>7</sup>	n <sub>D</sub> 1	Fiber Color <sup>7</sup>	n <sub>D</sub> T	VAE		-	VAI				
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481684	Sample Type'	Visual Gross <sup>2</sup>	Fiber Color <sup>7</sup>	n <sub>D</sub> 1	Fiber Color <sup>7</sup>	n <sub>D</sub> T	Fiber Color <sup>7</sup>	n <sub>D</sub> I	VAE			VA	E			
				8 10		8		10	1234 5	578		PC	10			1
ield Sample #	Friability <sup>4</sup>	Sample Color"	Pleochroism	Extinction '	Pleochroism	Extinction	Pleochroism°	Extinction	/ VAE			VA	E			* sca
11B	ForN	Texture <sup>5</sup>	Biref. <sup>9</sup>	Elongation <sup>11</sup>	Biref.	Elongation <sup>11</sup>	Biref. <sup>9</sup>	Elongation <sup>11</sup>	1234 5	578		PC				Asbes Stere
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	Sample Desc	riptions	Тур	oe #1	Туг	oe #2	Тур	e#3	% Asbes	tos (12)			% Fibrou	s Non-Asbestos (1	3)	Analys
Lab Sample #	Client-Supplied Data	Macroscopic		Properties nD II		Properties nD II		nD II	Method of Qu		%	Method of Q	uant. %	Optical C	haracteristics <sup>14</sup>	Note
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		Sample Color <sup>3</sup>	Pleochroism	<sup>8</sup> Extinction <sup>10</sup>	Pleochroisn	Extinction <sup>10</sup>	Pleochroism	Extinction <sup>10</sup>	1234 5			PC				-
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sbestos-	Containing			-Contai			alytical	- 100 · ·	Specify if diffe					10		L Archu
	Sample Desc Client-Supplied Data	riptions Macroscopic		pe#1 Properties		pe #2 Properties		e#3 Properties	% (sbes Method Qu	ant.	%	Method of Q		is Non-Asbestos (i Optical C	13) haracterístics <sup>14</sup>	Analy: Note
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481686	Sample Type	Visual Gross <sup>2</sup>	Fiber Color <sup>7</sup>	'n <u>∩</u> ⊥	Fiber Color	n <sub>D</sub> ⊥	Fiber Color <sup>7</sup>	n <sub>D</sub> ⊥	VAE			VA	E	1		
		Sample Color <sup>3</sup>	Pleachroism	8 Extinction <sup>10</sup>	Pleochroisn	8 Extinction <sup>10</sup>	Pleochroism	Extinction <sup>10</sup>	12345	678	-	PC				
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	F or N	Texture <sup>5</sup>	Biref. <sup>9</sup>	Elongation	Birel. <sup>9</sup>	Elongation	1 Biref. <sup>9</sup>	Elongation <sup>11</sup>	12345	678		PC				Asbes
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sbestos- Point Count alytical Me	; VAE: (Calibrated)	Visual Area E * If usir imetry	Estimate (in	Weight Per ion for ELAF 4. EPA/60	cent) P, circle sca	n in notes t	llock.	Date of A	nalysis:	stos contair 7.	ning v State			ining is based	on EPA NESHA 3 N.J.R. 2526)	APs defini

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	A PLM	Ben	ch S	heel	t			mpus 221810 (	Scope #3)	Nik	on 22	2212 (Scop	e #5)	Page 7 d	of 9	
PLM Scope	ID#: 🗖 Nikon	202306 (Sco	ope #1)		DM750P (S	cope #2)		mpus 240335 (	(Scope #4)	Nik Nik	on 10	2293 (Scop	e #6)	Olymp	us 202705 (So	:ope #7)
			BLI P	roject #	<u>L363</u>	3524	Nar	ne of Clie	nt/Project	<u>1</u>	093	723K-I	HAPPY	HOLLOV	V REC. C	
Sample	е Туре <sup>1</sup>	Visual Gross <sup>2</sup>		Sample Color	3	4 Friability	Sample Texture	6 Morphology	Fiber Color (in plane light)	Pleochrois	m <sup>8</sup>	<u>Bire</u> 1-lo 3-hi	Asbestos 12 Types	Non-Asbestos 13 Types	Optical/Morph. 14 Characterístics	Non-Fibrou 15 Types
emperature (°C):			1 black	7 brown	13 orange	_	1 cementic.	1 wavy			-	2 medium	1 chrysotile		undulose ext.	1 matrix
insulation sheetrock	6 ceiling tile 7 linoleum	1 Homogenous	1	8 blue 9 white	14 various 15 other	Friable	· ·	2 straight 3 splayed ends	1 clear 2 tan	1 no 2	yes	Extinction 1 parallel	2 amosite 3 crocidolite		isotropic shot	2 binder 3 CaSO4
roofing material	8 floor tile	2 Heterogeneous	ľ	10 red	10 0000	Nontriable	1	4 fiber bundles	3 blue			2 oblique	4 anthophyllite		high biretringenc	- i
soil	9 mastic/adhesive		1	11 green			5 soft 6 paper-like	5 single fibers 6 blocky	4 brown 5 other	d yes, give o	xolor <u>F</u>	11 Elongation + or -	5 tremolite 5 actinolite		mult.elon.(flips)	5 Vermicul 6 other
joint compound	10 plaster	3 Layered	6 gray	12 pink	Ashai	100 80	Asbes		% Asjestos	(12)		+01-		n-Asbestos Type (		Analyst's
	Sample Desc Client-Supplied Data	Macroscopic	Asbes Optical P			tos #2 Properties	Optical P		Method of Qua		%	Method of Q			racteristics <sup>14</sup>	Notes
Lab Sample #	Sample Type <sup>1</sup>	Visual Gross <sup>2</sup>	Morph <sup>6</sup>	n <sub>D</sub> II	Morph <sup>6</sup>	n <sub>D</sub> II	_Morph <sup>6</sup>	n <sub>D</sub> II	1294 96	78		PC				
1481687		VISUE CIVES	Fiber Color <sup>7</sup>	n <sub>D</sub> T	Fiber Color <sup>7</sup>	nD ⊤	Fiber Color <sup>7</sup>	п <sub>D</sub> т	VAE	1		VAL		1		
		Sample Color <sup>3</sup>	Pleochroism <sup>8</sup>	Extinction <sup>10</sup>	Pleochroisn	Extinction <sup>10</sup>	Pleochroism <sup>8</sup>	Extinction <sup>10</sup>	1234 56	78		PC				1
Field Sample #	Friability <sup>4</sup>	7							VAE			VAI		1		* scar
	F or N	Texture <sup>5</sup>	Biref, <sup>9</sup>	Elongation	Biret. <sup>9</sup>	Elongation	Binet. <sup>9</sup>	Elongation <sup>11</sup>	1234 56	78		PC				Asbesto
13A									VAE		-	VAI		1		Stereo VAE %
	<u>.</u>											Nonfib	ous Types <sup>15</sup>	Perce	entage	1
Asbestos-C	Containing D	Non-A	sbestos	-Contair	ing 🗖	An	alytical I	Method:	Mandato				6	10	0	0
]	Sample Desc	riptions	Тур	e#1	🛛 🗸 Тур		Тур		% Asbes					Non-Asbestos (13)		Analyst
Lab Sample #	Client-Supplied Data	Macroscopic	Optical P Morph <sup>6</sup>	roperties nD II	Optical P Morph <sup>6</sup>	nD II	Optical P Morph <sup>6</sup>	roperties nD II	Method bi-Qua		%	Method of Q	Jant. %	Optical Cha	tracteristics <sup>14</sup>	Notes
1481688	Sample Type <sup>1</sup>	Visual Gross <sup>2</sup>	Fiber Color <sup>7</sup>	n <sub>D</sub> T	Fiber Color <sup>7</sup>	n <sub>D</sub> ⊥	Fiber Color <sup>7</sup>	n <sub>D</sub> 1	VAE	-	_	PC	-			
									1234 5 6	78	_		-			-
Field Sample #	Friability <sup>4</sup>	Sample Color <sup>3</sup>	Pleochroism	Extinction <sup>10</sup>	Pieochroism <sup>8</sup>	Extinction <sup>10</sup>	Pleochroism	Extinction <sup>10</sup>	/ /			PC VA	E			* sca
	ForN	Texture	Biref. <sup>9</sup>	Elongation	Biret 9	Elongation <sup>11</sup>	<sup>1</sup> Birel. <sup>9</sup>	Elongation <sup>11</sup>	1234 56	78	1	PC				Asbest
13B		TOALITO		Lionguton		Clonguatori	Dirdi.	Lionguton	VAE		-	VA	E			Steree VAE 2
Achestos (	Containing □	Non-(	sbestos	Contair		<u>Δ</u> η	alytical I	Method:	Specify it rate	ent		Nonfib	rous Types <sup>15</sup>	Perc	pntage	
1	Sample Desc			e#1		e #2		e #3		os (12)	- 1		% Fibrous	Non-Asbestos (13	)	Analyst
Lab Sample #	Client-Supplied Data	Macroscopic		<sup>o</sup> roperties		Properties		roperties	Method of Qua		%	Method of Q	uant. %	Optical Cha	aracteristics <sup>14</sup>	Notes
cub cumpio ii	Sample Type <sup>1</sup>	Visual Gross <sup>2</sup>	Morph <sup>6</sup>	n <sub>D</sub> II	Morph <sup>6</sup>	nD II	Morph <sup>6</sup>	n <sub>D</sub> II	1234 96	78		PC				
1481689	Flue		Fiber Color <sup>7</sup>	∩ <sub>D</sub> ⊥	Fiber Color <sup>7</sup>	nDΤ	Fiber Color <sup>7</sup>	n <sub>D</sub> ⊥				Ville,	_	1		
				1			1 1001 0000		VAE			VA				
Field Sample #	Friability <sup>4</sup>	Sample Color <sup>3</sup>	<sup>3</sup> Pleochroism <sup>6</sup>	Extinction <sup>10</sup>		Extinction <sup>10</sup>			VAE 1234 50 /	78		VA PC				1
Field Sample #	Friability <sup>4</sup>	Sample Color <sup>3</sup>	Pleochroism <sup>8</sup>	Extinction <sup>10</sup>		Extinction <sup>10</sup>			1234 50 / VAE							* sca
Field Sample #	Friability <sup>4</sup> F or N	Texture <sup>5</sup>	<sup>3</sup> Pleochroism <sup>6</sup> Biref. <sup>9</sup>	Extinction <sup>10</sup>		Extinction <sup>10</sup>			1234 50			PC				Asbest
		14			Pleochroism <sup>6</sup>		Pleochroism <sup>8</sup>	Extinction <sup>10</sup>	1234 50 / VAE			PC VA PC VA	E			Asbes Stere
14A		Texture <sup>5</sup>		Elongation <sup>11</sup>	Pleochroism <sup>®</sup> Biref. <sup>9</sup>	Elongation <sup>11</sup>	Pleochroism <sup>8</sup>	Extinction <sup>10</sup>	1234 50 / VAE 1234 50 /	78		PC VA PC VA	E	5 <u>Perg</u>	entage	Asbes Stere
14A	F or N	Texture <sup>5</sup>	Biref. <sup>9</sup>	Elongation <sup>11</sup> -Contair	Pieochroism <sup>®</sup> Biref. <sup>®</sup>	Elongation <sup>11</sup> An	Pleochroism <sup>a</sup> Biref. <sup>9</sup> allytical	Elongation <sup>10</sup> Elongation <sup>11</sup> Method:	1234 50 / VAE 1234 50 / VAE Specify if diffe	ent os (12)		PC VA PC VA Nonfib	E Fous Types <sup>11</sup>	Non-Asbestos (13	)	Asbest Stere VAE
14A	F or N	Texture <sup>5</sup>	Biref. <sup>9</sup> Asbestos Typ Optical F	Elongation <sup>11</sup> -Contair we #1 Properties	Biref.®	Elongation <sup>11</sup> An Properties	Pleochroism <sup>a</sup> Biref. <sup>9</sup> Biref. <sup>9</sup>	Extinction <sup>10</sup> Etiongation <sup>11</sup> Etiongatio <sup>11</sup> Etiongatio <sup>11</sup> Etiongatio <sup>11</sup> Etiongatio <sup>11</sup> Eti	1234 5 ( / VAE 1234 5 ( / VAE Specify if diffe	ent los (12) unt.	%	PC VA PC VA Nonfib	E rous Types <sup>11</sup>	Non-Asbestos (13		Asbest Stere VAE
14A Asbestos-C	F or N	Texture <sup>5</sup>	Biref. <sup>9</sup>	Elongation <sup>11</sup> -Contair	Pieochroism <sup>®</sup> Biref. <sup>®</sup>	Elongation <sup>11</sup> An	Pleochroism <sup>a</sup> Biref. <sup>9</sup> allytical	Elongation <sup>10</sup> Elongation <sup>11</sup> Method:	1234 50 / VAE 1234 50 / VAE Specify if diffe % Asbes Method 30 pu 1234 50	ent los (12) unt.	%	PC VA PC VA Nonfib	E Fous Types <sup>11</sup> % Plotous	Non-Asbestos (13	)	Asbest Stere VAE
14A Asbestos-C	F or N	Texture <sup>5</sup> Non-A criptions Macroscopic Visual Gross <sup>2</sup>	Biref. <sup>9</sup> Asbestos Typ Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup>	Elongation <sup>11</sup> -Contair we #1 Properties ND II ND L	Pleochroism	Elongation <sup>11</sup> An e #2 Properties nD II nD I	Pleochroism <sup>8</sup> Biref. <sup>9</sup> Biref. <sup>9</sup> Biref. <sup>9</sup> Coptical F Morph <sup>6</sup> Fiber Color <sup>7</sup>	Elongation <sup>10</sup> Elongation <sup>11</sup> Elongation <sup>11</sup> Method: e #3 Properties nD II nD ⊥	1234 50 VAE 1234 50 VAE 1234 50 VAE Specify if diffe % Asbes Methol 50 pu	i78 ent los (12) unt. i78	%	Method of Q PC VA	E Fous Types <sup>11</sup> % Plotous	Non-Asbestos (13	)	Asbest Stere VAE
14A Asbestos-C	F or N	Texture <sup>5</sup>	Biref. <sup>9</sup> Asbestos Typ Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup>	Elongation <sup>11</sup> -Contair pe #1 Properties nD II	Pieochroism Biref. <sup>9</sup> Biref. <sup>9</sup> Ding O V Typ Optical F Morph <sup>6</sup>	Elongation <sup>11</sup> An ee #2 Properties nD II	Pleochroism <sup>8</sup> Biref. <sup>9</sup> Biref. <sup>9</sup> Biref. <sup>9</sup> Coptical F Morph <sup>6</sup> Fiber Color <sup>7</sup>	Elongation <sup>10</sup> Elongation <sup>11</sup> Elongation <sup>11</sup> Method: e #3 Properties nD II nD ⊥	1234 5 ( / VAE 1234 5 ( / VAE Specify if diffe % Asbes Methol & Du 123 4 5 ( / VAE	i78 ent los (12) unt. i78	%	PC VA PC VA Nonfib	E E Fous Type	Non-Asbestos (13	)	Asbest Stere VAE Analys Notes
14A Asbestos-C Lab Sample # 1481690	F or N	Texture <sup>5</sup> Non-A Criptions Macroscopic Visual Gross <sup>2</sup> Sample Color <sup>3</sup>	Biref. <sup>9</sup> Asbestos Typ Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup> Pleochroism <sup>8</sup>	Elongation <sup>11</sup> -Contair -Contair Contair	Pleochroism	Elongation <sup>11</sup> An Ref2 Properties nD II nD L Extinction <sup>10</sup>	Pleochroism <sup>8</sup> Biref. <sup>9</sup> Biref. <sup>9</sup> Biref. <sup>9</sup> Coptical F Morph <sup>6</sup> Fiber Color <sup>7</sup> Pleochroism <sup>6</sup> Pleochroism <sup>6</sup>	Elongation <sup>10</sup> Elongation <sup>11</sup> Elongation <sup>11</sup> Method: e #3 Properties nD II nD 1 Extinction <sup>10</sup>	1234 50 // VAE 1234 50 // VAE Specify if diffe %, Asbes Methol 70 Du 1234 50 // VAE 1234 50	i78 int i78 i78	%	Method of Q PC VA Nonlib PC VA PC VA	E E Fous Type	Non-Asbestos (13	)	* SCal Asbest Stere VAE * Notes
14A Asbestos-C Lab Sample # 1481690	F or N	Textures Non-A Criptions Macroscopic Visual Gross <sup>2</sup> Sample Color <sup>3</sup>	Biref. <sup>9</sup> Asbestos Typ Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup>	Elongation <sup>11</sup> -Contair we #1 Properties ND II ND L	Pleochroism	Elongation <sup>11</sup> An e #2 Properties nD II nD I	Pleochroism <sup>8</sup> Biref. <sup>9</sup> Biref. <sup>9</sup> Biref. <sup>9</sup> Coptical F Morph <sup>6</sup> Fiber Color <sup>7</sup>	Elongation <sup>10</sup> Elongation <sup>11</sup> Elongation <sup>11</sup> Method: e #3 Properties nD II nD ⊥	1234 50 / VAE 1234 50 / VAE Specify if diffe % Asbes Methol 70 Du 123 4 50 / VAE 123 4 50 / VAE 123 4 50 / VAE	i78 int i78 i78	%	Method of C PC VA Nonfib PC VA PC VA PC VA	E F rous Type <sup>(1)</sup>	Non-Asbestos (13	)	Asbest Stere VAE Analys Note: * SCA Asbest Stere
14A Asbestos-C Lab Sample # 1481690 Field Sample #	F or N	Texture <sup>5</sup>	Biref. <sup>9</sup> Asbestos Typ Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup> Pleochroism <sup>8</sup>	Elongation <sup>11</sup> -Contair -Contair Contair	Pleochroism	Elongation <sup>11</sup> An Ref2 Properties nD II nD L Extinction <sup>10</sup>	Pleochroism <sup>8</sup> Biref. <sup>9</sup> Biref. <sup>9</sup> Biref. <sup>9</sup> Coptical F Morph <sup>6</sup> Fiber Color <sup>7</sup> Pleochroism <sup>6</sup> Pleochroism <sup>6</sup>	Elongation <sup>10</sup> Elongation <sup>11</sup> Elongation <sup>11</sup> Method: e #3 Properties nD II nD 1 Extinction <sup>10</sup>	1234 50 // VAE 1234 50 // VAE Specify if diffe \$\$ \$\$ \$\$ \$\$ Metho \$\$ 045 1234 50 // VAE 1234 50 // VAE	i78 int i78 i78	%	Method of C PC VA Nonfib PC VA PC VA PC VA	E E % Plofous uant. % E E E E	Non-Asbestos (13 Optical Ch	aracteristics <sup>14</sup>	Asbest Stere VAE Analyst Notes * SCA Asbest Stere
14A Asbestos-C Lab Sample # 1481690 Field Sample # 14B	F or N	Texture <sup>5</sup> Non-A Criptions Macroscopic Visual Gross <sup>2</sup> Sample Color <sup>3</sup> Texture <sup>5</sup>	Biref. <sup>9</sup> Asbestos Typ Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup> Pleochroism <sup>8</sup>	Elongation <sup>11</sup> -Contair -Contair - Contair - C	Pleochroism Biref. <sup>9</sup> Dytaci Fiber Color <sup>7</sup> Pleochroism Biref. <sup>9</sup> Biref. <sup>9</sup>	Elongation <sup>11</sup> An Properties nD II nD L Elongation <sup>11</sup> Elongation <sup>11</sup>	Pleochroism <sup>8</sup> Biref. <sup>9</sup> Biref. <sup>9</sup> Biref. <sup>9</sup> Coptical F Morph <sup>6</sup> Fiber Color <sup>7</sup> Pleochroism <sup>6</sup> Pleochroism <sup>6</sup>	Extinction <sup>10</sup> Extinction <sup>11</sup> Elongation <sup>11</sup> Properties PD II PD I Extinction <sup>10</sup> Extinction <sup>10</sup> Extinction <sup>10</sup>	1234 50 / VAE 1234 50 / VAE Specify if diffe % Asbes Methol 70 Du 123 4 50 / VAE 123 4 50 / VAE 123 4 50 / VAE	578 ent cos (12) ant. 578 578 578	%	Method of C PC VA Nonfib PC VA PC VA PC VA	E F rous Type <sup>(1)</sup>	Non-Asbestos (13 Optical Ch	)	Asbest Stere VAE
14A Asbestos-C Lab Sample # 1481690 Field Sample # 14B Asbestos-C C: Point Count;	F or N Containing Sample Desc Cilent-Supplied Data Sample Type <sup>1</sup> Friability <sup>4</sup> F or N Containing VAE: (Calibrated)	Texture <sup>5</sup> Non-A Criptions Macroscopic Visual Gross <sup>2</sup> Sample Color <sup>3</sup> Texture <sup>5</sup> Mon-A Visual Area E	Biref. <sup>9</sup> Asbestos Typ Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup> Biref. <sup>9</sup> Biref. <sup>9</sup> Asbestos Estimate (in 1	Elongation <sup>11</sup> -Contair Weight Per-	Pleochroism Biref. <sup>9</sup> Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup> Pleochroism Biref. <sup>9</sup>	Elongation <sup>11</sup> An e #2 Properties n II n I Extinction <sup>10</sup> Extinction <sup>10</sup> An	Pleochroism <sup>®</sup> Biref. <sup>9</sup> Fiber Color <sup>7</sup> Pleochroism <sup>®</sup> Biref. <sup>9</sup> Biref. <sup>9</sup> Color <sup>1</sup> Colo	Etongation <sup>11</sup> Extinction <sup>10</sup> Elongation <sup>11</sup> Poperties np II np I Extinction <sup>10</sup> Elongation <sup>11</sup> Elongation <sup>11</sup> Elongation <sup>11</sup> Elongation <sup>11</sup>	1234 56 / VAE 1234 5( / VAE Specify if diffe 1234 57 / VAE 1234 57 / VAE 1234 57 / VAE 1234 57 / VAE	678 678 678 678 678 678		Method of Q PC VA Nonlib PC VA PC VA PC VA PC VA	E Fous Types % Fibrous uant % E E E F F F F F F F F F F F F F F F F	Non Asbestos (13 Optical Ch	entage	Asbest Stere VAE ° Analyst Notes * SCA Asbest Stere VAE °
14A Asbestos-C Lab Sample # 1481690 Field Sample # 14B Asbestos-C C: Point Count; malytical Me	F or N Containing Sample Desc Cilent-Supplied Data Sample Type <sup>1</sup> Friability <sup>4</sup> F or N Containing VAE: (Calibrated)	Texture <sup>5</sup> Non-A criptions Macroscopic Visual Gross <sup>2</sup> Sample Color <sup>3</sup> Texture <sup>5</sup> Mon-A Visual Area E	Biref. <sup>9</sup> Asbestos Typ Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup> Pieocturoism <sup>9</sup> Biref. <sup>9</sup> Asbestos	Elongation <sup>11</sup> -Contair -Contair -roperties -nnn Etongation <sup>11</sup> Etongation <sup>11</sup>	Pleochroism Biref. <sup>9</sup> Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup> Pleochroism Biref. <sup>9</sup>	Elongation <sup>11</sup> An Properties Properties Properties PDI PDI Elongation <sup>11</sup> Elongation <sup>11</sup> An n n notes b	Pleochroism <sup>8</sup> Biref. <sup>9</sup> Coptical I Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup> Pleochroism <sup>9</sup> Biref. <sup>9</sup> Biref. <sup>9</sup> Coptical I Dolock.	Etongation <sup>11</sup> Extinction <sup>10</sup> Elongation <sup>11</sup> Poperties np II np I Extinction <sup>10</sup> Elongation <sup>11</sup> Elongation <sup>11</sup> Elongation <sup>11</sup> Elongation <sup>11</sup>	1234 56 / VAE 1234 5( / VAE Specify if diffe 1234 57 / VAE 1234 57 / VAE 1234 57 / VAE 1234 57 / VAE	78 ent tos (12) 78 78 78 78 78 78 78 78 78 78	hngv	PC VA PC VA Nonfib PC VA PC VA PC VA PC VA	E Fous Types <sup>11</sup> % Parous uant. % E Fous Types <sup>11</sup> % Factors Contained E Fous Types <sup>11</sup> % Fous Type	Non Asbestos (13 Optical Ch	entage	Asbest Stere VAE * Notes * SCa Asbest Stere VAE *

				nee	L			mpus 221810	(Scope #3)	Nik	on 2222	12 (Scop	ə #5)	Page 8 c	of 9	
M Scope	ID#: 🗆 Nikon	202306 (Sco	ope #1)	Leica	DM750P (S	Scope #2)		mpus 240335	(Scope #4)	Niko	on 1022	93 (Scop	∋ #6)	Olympi	us 202705 (Sc	ope #7)
			BLI P	roject #	L363	3524	Nar	me of Clie	ent/Project:	1	<u>0937</u>	<u>23K-F</u>	APPY	HOLLOW	/ REC. C	ENTE
Samp	1 Не Туре	Visual Gross <sup>2</sup>		Sample Color	3	Friability <sup>4</sup>	Sample 5 Texture	6 Morphology	7 Fiber Color (in plane tight)	Pleochrois		9 <u>Bire</u> o 3-hi	Asbestos 12 Types	Non-Asbestos Types <sup>13</sup> C	Optical/Morph 14	Non-Fibrous 15 Types
nperature (°C):			1 black	7 brown	13 orange		1 cementic	1 wavy				medium 1	chrysotile		undulose ext.	1 matrix
ulation	6 ceiling tile	1 Homogenous	2 tan	8 blue	14 various	Friable	2 granular	2 straight	1	ino 2		inction <sup>10</sup> 2	amosite		isotropic	2 binder
eetrock ofing material	7 linoleum 8 floor tile	2 Heterogeneous	3 gold	9 white 10 red	15 other	or Nontriable	3 fibrous 4 firm	3 splayed ends 4 fiber bundles	2 tan 3 blue		1	parallel 3 oblique 4	crocidolite anthophyllite		shot high birefringence	3 CaSO <sub>4</sub>
xil	9 mastic/adhesive	2 Helelogeneou.	5 silver			THORNHADIE	5 soft	5 single fibers	4 brown	il ves, give a		ngation <sup>11</sup> 5	tremolite		mult elon ((lips)	5 Vermiculite
ni int compound		3 Layered	6 gray	11 green 12 plnk				6 blocky	5 other	n yes, give c			actinolite		ther	6 other
	Sample Desc	riptions	Asbes	tos #1	Asbes	tos #2	Asbes	stos #3	% Asbestos T	ype (12)	T		% Fibrous No	n-Asbestos Type (1	3)	Analyst's
.ab Sample #	Client-Supplied Data	Macroscopic	Optical P		Optical P	· · · · · · · · · · · · · · · · · · ·		Properties	Method - Quan		% Me	thod of Qu	ant. %	Optical Char	racteristics <sup>14</sup>	Notes
	Sample Type <sup>1</sup>	Visual Gross <sup>2</sup>	Morph <sup>6</sup>	nDil	Morph <sup>6</sup>	n <sub>D</sub> II	Morph <sup>®</sup>	nD II	1214 \$6	78		PC	1.0			
481691	Claze		Fiber Color <sup>7</sup>	n <sub>D</sub> T	Fiber Color <sup>7</sup>	'n <sub>D</sub> ⊥	Fiber Color <sup>7</sup>	nD T	VAE			VAE		1		
	040-040	Sample Color <sup>3</sup>	Pleochroism <sup>8</sup>	Extinction <sup>10</sup>	Pleochroism <sup>8</sup>	Extinction <sup>10</sup>	Pleochroism <sup>8</sup>	Extinction <sup>10</sup>	1234 56	78		PC	되기기			
ield Sample #	Friability <sup>4</sup>	G				1			VAE		-	VAE		1		
						<b>/</b>		- 8	1234 56	70	_	VAE				* scan
15A	ForN	Texture <sup>5</sup>	Biref.9	Elongation <sup>11</sup>	Bire1.9	Elongation <sup>11</sup>	Biref. <sup>9</sup>	Elongation <sup>11</sup>	1234 30	-		PC	1			Asbestos Stereo
ISA		1			. /				VAE		1	VAE		1		VAE %
							L					Nonfibr	ous Types <sup>15</sup>	Perce	nyage	1
sbestos-	Containing 🗆	Non-A	sbestos	-Contair	ning p/	An	alytical I	Method:	Mands ory				ų	101	U C	
	Sample Desc	riptions		e #1		e #2		e#3	% Asbesto					Non-Asbestos (13)		Analyst's
Lab Sample #	Client-Supplied Data	Macroscopic		roperties D II	· · · ·	Properties In D II		Properties	Method of Quar 1234 96		% Me	thod of Qu	ant. %	Optical Char	racteristics <sup>14</sup>	Notes
	Sample Type <sup>1</sup>	Visual Gross <sup>2</sup>	Morph <sup>6</sup>		Morph <sup>6</sup>		Morph <sup>o</sup>		- H			PC				
481692	10 Slin		Fiber Color <sup>7</sup>	nDΤ	Fiber Color <sup>7</sup>	n <sub>D</sub> ⊥	Fiber Color <sup>7</sup>	n <sub>D</sub> 1	VAE			VAE	:			1.
		Sample Color <sup>3</sup>	Pleochroism <sup>8</sup>	Extinction <sup>10</sup>	Pleochroism <sup>8</sup>	Extinction <sup>10</sup>	Pleochroism <sup>8</sup>	Extinction <sup>10</sup>	1234 56	78		PC				lay
Field Sample #	Friability	9				/			VAE			VAE		1		* scan
-		- , 5	a. 19				9		123456	78		PC				Asbestos
16A	F or N	Texture <sup>°</sup>	Biref. <sup>9</sup>	Elongation <sup>11</sup>	Bire1.9	Elongation	Biref. <sup>9</sup>	Elongation	/	-	_	FU		1		Stereo
		-1			$\square$				VAE		1	VAE				VAE %
Achestos-	Containing	Non-A	sbestos	Contair	aing	An An	alytical l	Method:	Specify it differe	nl		Nonfibr	ous Types <sup>15</sup>	Perce	ntage	0
	Sample Desc			e #1			ally troat i	incuriou.				L				1
Lab Sample #	Client-Supplied Data					e #2	Tvn	e#3		s (12)	-	12	% Fibrous	Non-Asbestos (13)		Analyst's
Lab Sample #	Onorn Oupprod Data			roperties	Optical F	er#2 ≥roperties		e #3 Properties	% Asbesto Method of Quar		% M	athod of Qu		Non-Asbestos (13) Optical Chai	racteristics <sup>14</sup>	Analyst's Notes
		Macroscopic							% Asbesto	nt.	% M	ethod of Qu	-		racteristics <sup>14</sup>	
1481693	Sample Type <sup>1</sup>		Optical F Morph <sup>6</sup>	nD II	Optical F Morph <sup>6</sup>	<sup>p</sup> roperties <sup>n</sup> D II	Optical F Morph <sup>6</sup>	Properties nD II	% Asbesto Methos on Duar 1234 8,6	nt.	% M	PC	ant. %		racteristics <sup>14</sup>	
1481693		Macroscopic	Optical F	roperties	Optical F	roperties	Optical F	Properties	% Asbesto Method of Quar	nt.	% M		ant. %		racteristics <sup>14</sup>	Notes
1481693	Sample Type <sup>1</sup>	Macroscopic	Optical F Morph <sup>6</sup>	nD II	Optical F Morph <sup>6</sup>	Properties <sup>n</sup> D II n <sub>D</sub> ⊥	Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup>	nD II nD II nD L	% Asbesto Methos on Duar 1234 8,6	nt. 78	% M	PC	ant. %		racteristics <sup>14</sup>	Notes
	Sample Type <sup>1</sup>	Macroscopic Visual Gross <sup>2</sup> Sample Color <sup>3</sup>	Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup>	nD II	Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup>	nD II	Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup>	nD II nD II nD L	* Asbesto Methor of Duar 123436 VAE 123456	nt. 78	% M	PC VAE PC	ant. %		racteristics <sup>14</sup>	Notes
	Sample Type <sup>1</sup>	Macroscopic Visual Gross <sup>2</sup>	Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup>	nD II	Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup>	nD II	Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup>	nD II nD II nD L	% Asbestc           Method Sof Duar           1234 36           VAE           1234 56           /           VAE	78 78	% M	PC VAE	ant. %		racteristics <sup>14</sup>	Notes
Field Sample #	Sample Type <sup>1</sup>	Macroscopic Visual Gross <sup>2</sup> Sample Color <sup>3</sup>	Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup>	nD II	Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup>	nD II	Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup>	nD II nD II nD L	* Asbesto Methor of Duar 123436 VAE 123456	78 78	% M	PC VAE PC	ant. %		racteristics <sup>14</sup>	Notes
	Sample Type <sup>1</sup>	Macroscopic Visual Gross <sup>2</sup> Sample Color <sup>3</sup>	Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup> Pleochroism <sup>8</sup>	nD II nD II Extinction <sup>10</sup>	Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup> Pleochroism <sup>8</sup>	Properties <sup>n</sup> D II n <sub>D</sub> I Extinction <sup>10</sup>	Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup> Pleochroism <sup>8</sup>	nD II nD J Extinction <sup>10</sup>	% Asbestc           Method Sof Duar           1234 36           VAE           1234 56           /           VAE	78 78	% М	PC VAE PC VAE	ant. %		racteristics <sup>14</sup>	Notes
Field Sample #	Sample Type <sup>1</sup>	Macroscopic Visual Gross <sup>2</sup> Sample Color <sup>3</sup> Texture <sup>5</sup>	Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup> Pleochroism <sup>8</sup>	nD II nD II Extinction <sup>10</sup>	Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup> Pleochroism <sup>8</sup>	Properties <sup>n</sup> D II n <sub>D</sub> I Extinction <sup>10</sup>	Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup> Pleochroism <sup>8</sup>	nD II nD J Extinction <sup>10</sup>	% Asbestc           Methol Sof Duar           1234 56           VAE           1234 56           /           VAE           1234 56           /	78 78	% M	PC VAE PC VAE PC VAE	ant. %	Optical Char		Notes
Field Sample # 16B	Sample Type <sup>1</sup>	Macroscopic Visual Gross <sup>2</sup> Sample Color <sup>3</sup> Texture <sup>5</sup>	Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup> Pleochroism <sup>8</sup>	roperties nD II nD I Extinction <sup>10</sup> Elongation <sup>11</sup>	Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup> Pleochroism <sup>6</sup> Biref. <sup>9</sup>	Properties TD II ND J Extinction <sup>10</sup> Elongation <sup>1</sup>	Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup> Pleochroism <sup>8</sup>	Properties nD    nD ⊥ A Extinction <sup>10</sup> Elongation <sup>11</sup>	% Asbestc           Methol Sof Duar           1234 56           VAE           1234 56           /           VAE           1234 56           /	78 78 78	% M	PC VAE PC VAE PC VAE	ant. %	Optical Char		Notes
Field Sample # 16B	Sample Type <sup>1</sup>	Macroscopic Visual Gross <sup>2</sup> Sample Color <sup>3</sup> Texture <sup>5</sup> C Non-A	Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup> Pleochroism <sup>6</sup> Biref, <sup>9</sup>	roperties nD II nD I Extinction <sup>10</sup> Elongation <sup>11</sup> -Contail e #1	Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup> Pleochroksm <sup>6</sup> Biref. <sup>9</sup>	Properties	Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup> Pleochroism <sup>1</sup> Biret. <sup>9</sup>	Properties	* Asbestc Metho Son Duar 1234 56 1234 56 / VAE 1234 56 / VAE Specify if differe % Asbestc	7 8 7 8 7 8 7 8 7 8		PC VAE PC VAE Nonfibr	ant. %	Optical Char	entage	Notes Asbestos Stereo VAE% Analyst's
Field Sample # 16B	Sample Type <sup>1</sup>	Macroscopic Visual Gross <sup>2</sup> Sample Color <sup>3</sup> Texture <sup>5</sup> U Non-A	Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup> Pieochroism <sup>6</sup> Biref. <sup>9</sup> Sbestos	roperties <sup>n</sup> D II nD I Extinction <sup>10</sup> Elongation <sup>11</sup> -Contail e #1 roperties	Optical F Morph <sup>®</sup> Fiber Color <sup>7</sup> Pleochroism <sup>®</sup> Biref. <sup>9</sup> Ning D Vyp Optical F	Properties	Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup> Pleochroism <sup>1</sup> Biret. <sup>9</sup> Biret. <sup>9</sup>	Properties	% Asbestc           Methof Sof Duar           1234 56           VAE           1234 56           /           VAE           1234 56           /           VAE           Specify if difference	7 8 7 8 7 8 7 8 7 8		PC VAE PC VAE PC VAE Nonfibr	ant. %	Optical Char		Notes Aufor Asbestos Stereo VAE%
Asbestos- Lab Sample #	Sample Type <sup>1</sup>	Macroscopic Visual Gross <sup>2</sup> Sample Color <sup>3</sup> Texture <sup>5</sup> C Non-A	Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup> Pleochroism <sup>6</sup> Biref, <sup>9</sup>		Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup> Pleochroksm <sup>6</sup> Biref. <sup>9</sup>	Properties	Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup> Pleochroism <sup>1</sup> Biret. <sup>9</sup>	Properties           nD              nD ⊥           ND ⊥           Extinction <sup>10</sup> Elongation <sup>11</sup> Elongation <sup>11</sup> Properties           Properties           ND	* Asbestc Metho Son Duar 1234 56 1234 56 / VAE 1234 56 / VAE Specify if differe % Asbestc	7 8 7 8 7 8 7 8 7 8		PC VAE PC VAE Nonfibr	ant. %	Optical Char	entage	Notes Asbestos Stereo VAE% Analyst's
Field Sample # 16B Asbestos-	Sample Type <sup>1</sup>	Macroscopic Visual Gross <sup>2</sup> Sample Color <sup>2</sup> G Texture <sup>5</sup> C Non-A riptions Macroscopic	Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup> Pieochroism <sup>6</sup> Biref. <sup>9</sup> Sbestos	roperties <sup>n</sup> D II nD I Extinction <sup>10</sup> Elongation <sup>11</sup> -Contail e #1 roperties	Optical F Morph <sup>®</sup> Fiber Color <sup>7</sup> Pleochroism <sup>®</sup> Biref. <sup>9</sup> Ning D	Properties	Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup> Pleochroism <sup>1</sup> Biret. <sup>9</sup> Biret. <sup>9</sup>	Properties	* Asbestc Metho Son Duar 1234 56 1234 56 / VAE 1234 56 / VAE Specify if differe % Asbestc	7 8 7 8 7 8 7 8 7 8		PC VAE PC VAE PC VAE Nonfibr	Ant. %	Optical Char	ontage	Notes Asbestos Stereo VAE% Analyst's Notes
Field Sample # 16B Asbestos- Lab Sample #	Sample Type <sup>1</sup>	Macroscopic Visual Gross <sup>2</sup> Sample Color <sup>2</sup> G Texture <sup>5</sup> G Non-A Macroscopic Visual Gross <sup>2</sup>	Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup> Pleochroism <sup>6</sup> Biref. <sup>9</sup> Biref. <sup>9</sup> Sbestos Typ Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup>	roperties         n         II           n         I         II         III           Extinction 10         III         III         III           Contail         III         III         III           roperties         n         III         III	Opfical F Morph <sup>6</sup> Fiber Color <sup>7</sup> Pleochroism <sup>6</sup> Biref. <sup>9</sup> Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup>	Properties         II           nD II         II           nD II         II           ND II         III           Extinction <sup>10</sup> III           Etongation <sup>11</sup> III           Properties         ND II           ND II         III	Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup> Pieochroism <sup>6</sup> Biref. <sup>9</sup> Biref. <sup>9</sup> Biref. <sup>9</sup> Typ Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup>	Properties	% Asbest           Methof of Ouar           1234 b6           VAE           1234 56           /           VAE           1234 56           /           VAE           1234 56           /           VAE           Specify if differe           % Asbest           Methoded Ouar           1234 56	nt		PC VAE PC VAE PC VAE Nonfibr	Ant. %	Optical Char	ontage	Notes Asbestos Stereo VAE% Analyst's Notes
Field Sample # 16B Asbestos- Lab Sample # 1481694	Sample Type <sup>1</sup>	Macroscopic Visual Gross <sup>2</sup> Sample Color <sup>2</sup> G Texture <sup>5</sup> C Non-A riptions Macroscopic	Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup> Pieochroism <sup>6</sup> Biref. <sup>9</sup> Sbestos		Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup> Pleochroism <sup>6</sup> Biref. <sup>9</sup> Biref. <sup>9</sup> Optical F Morph <sup>6</sup>	Properties	Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup> Pleochroism <sup>6</sup> Biref. <sup>9</sup> Biref. <sup>9</sup> allytical Typ Optical F Morph <sup>6</sup>	Properties	% Asbestc           Methol Sof Duar           123456           VAE           123456           /           VAE           Specify if difference           % Asbestc           Method of Quar           123456           VAE	nt		PC VAE PC VAE PC VAE Nonfibr	Ant. %	Optical Char	entage racterístics <sup>14</sup>	Notes Asbestos Stereo VAE% Analyst's
Field Sample # 16B Asbestos- Lab Sample #	Sample Type <sup>1</sup>	Macroscopic Visual Gross <sup>2</sup> Sample Color <sup>2</sup> G Texture <sup>5</sup> G Non-A Macroscopic Visual Gross <sup>2</sup>	Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup> Pleochroism <sup>6</sup> Biref. <sup>9</sup> Biref. <sup>9</sup> Sbestos Typ Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup>	roperties         n         II           n         I         II         III           Extinction 10         III         III         III           Contail         III         III         III           roperties         n         III         III	Opfical F Morph <sup>6</sup> Fiber Color <sup>7</sup> Pleochroism <sup>6</sup> Biref. <sup>9</sup> Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup>	Properties         II           nD II         II           nD II         II           ND II         III           Extinction <sup>10</sup> III           Etongation <sup>11</sup> III           Properties         ND II           ND II         III	Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup> Pieochroism <sup>6</sup> Biref. <sup>9</sup> Biref. <sup>9</sup> Biref. <sup>9</sup> Typ Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup>	Properties	% Asbestc           Methol Sof Duar           123456           VAE           123456           /           VAE           Specify if difference           % Asbestc           Method of Quar           123456           VAE	nt		PC VAE PC VAE PC VAE Nonfibr	ant. %	Optical Char	entage racterístics <sup>14</sup>	Notes Asbestos Stereo VAE% Analyst's Notes
Field Sample # 16B Asbestos- Lab Sample # 1481694 Field Sample #	Sample Type <sup>1</sup>	Macroscopic Visual Gross <sup>2</sup> Sample Color <sup>3</sup> Texture <sup>5</sup> U Non-A riptions Macroscopic Visual Gross <sup>2</sup> Sample Color <sup>5</sup>	Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup> Pieochroism <sup>6</sup> Biref. <sup>9</sup> Sbestos Spestos Fiber Color <sup>7</sup> Fiber Color <sup>7</sup>	roperties         n         II           n         I         II         III           Extinction 10         III         III         III           Contail         III         III         III           roperties         n         III         III	Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup> Pieochroism <sup>6</sup> Biref. <sup>9</sup> Biref. <sup>9</sup> Dital F Pieochroism <sup>6</sup> Fiber Color <sup>7</sup> Pieochroism <sup>6</sup>	Properties         II           nD II         II           nD II         II           ND II         III           Extinction <sup>10</sup> III           Etongation <sup>11</sup> III           Properties         ND II           ND II         III	Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup> Pieochroism <sup>6</sup> Biref. <sup>9</sup> Biref. <sup>9</sup> Biref. <sup>9</sup> Typ Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup>	Properties	% Asbestc           Methol Sof Duar           1234 56           /           VAE           1234 56           /           VAE           1234 56           /           VAE           1234 56           /           VAE           Specify if difference           % Asbestc           Method of Quar           1234 56           /           VAE           Specify if difference           % Asbestc           VAE           1234 56           /	78 78 78 78 78 78 78 78 78 78		PC VAE PC VAE PC Nonfibr	ant. %	Optical Char	entage racterístics <sup>14</sup>	Notes Asbestor Stereo VAE% Analyst's Notes
Tield Sample # 16B Asbestos- Lab Sample # \$481694	Sample Type <sup>1</sup>	Macroscopic Visual Gross <sup>2</sup> Sample Color <sup>2</sup> G Texture <sup>5</sup> G Non-A Macroscopic Visual Gross <sup>2</sup>	Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup> Pleochroism <sup>6</sup> Biref. <sup>9</sup> Biref. <sup>9</sup> Sbestos Typ Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup>	roperties         n         II           n         n         I         II           Extinction 10         II         III         III           e #1         Properties         n         III         III           n         II         III         IIII         III         III         IIII         IIII         IIII         IIII         IIII         IIII         IIII         IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Opfical F Morph <sup>6</sup> Fiber Color <sup>7</sup> Pleochroism <sup>6</sup> Biref. <sup>9</sup> Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup>	Properties         II           nD II         nD II           nD I         II           Particular         II           Extinction <sup>10</sup> III           Etongation <sup>11</sup> III           Properties         nD II           ND II         III           InD II         III	Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup> Pleochroism <sup>6</sup> Biref. <sup>9</sup> Biref. <sup>9</sup> Biref. <sup>9</sup> Coptical F Morph <sup>6</sup> Fiber Color <sup>7</sup> Fiber Color <sup>7</sup>	Properties  Properties  ND II  ND I  ND I  Extinction <sup>10</sup> Elongation <sup>11</sup> Elongation <sup>10</sup> Elongati	% Asbestc           Method Sof Duar           1234 56           VAE           1234 56           /           VAE           1234 56           /           VAE           1234 56           /           VAE           1234 56           /           VAE           Specify if differe           1234 56           /           VAE           1234 56           /           VAE           1234 56           /           VAE           1234 56           /           VAE	78 78 78 78 78 78 78 78 78 78		PC VAE PC VAE PC VAE Nonfibr	ant.     %       iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii	Optical Char	entage racterístics <sup>14</sup>	Notes Autors Asbestos Stereo VAE% Analyst's Notes Analyst's Notes Analyst's Notes Asbestos Stereo
Field Sample # 16B Asbestos- Lab Sample # 1481694 Field Sample #	Sample Type <sup>1</sup>	Macroscopic Visual Gross <sup>2</sup> Sample Color <sup>3</sup> Texture <sup>5</sup> U Non-A riptions Macroscopic Visual Gross <sup>2</sup> Sample Color <sup>5</sup>	Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup> Pieochroism <sup>6</sup> Biref. <sup>9</sup> Sbestos Spestos Fiber Color <sup>7</sup> Fiber Color <sup>7</sup>	roperties         n         II           n         n         I         II           Extinction 10         II         III         III           e #1         Properties         n         III         III           n         II         III         IIII         III         III         IIII         IIII         IIII         IIII         IIII         IIII         IIII         IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup> Pieochroism <sup>6</sup> Biref. <sup>9</sup> Biref. <sup>9</sup> Dital F Pieochroism <sup>6</sup> Fiber Color <sup>7</sup> Pieochroism <sup>6</sup>	Properties         II           nD II         nD II           nD I         II           Particular         II           Extinction <sup>10</sup> III           Etongation <sup>11</sup> III           Properties         nD II           ND II         III           InD II         III	Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup> Pleochroism <sup>6</sup> Biref. <sup>9</sup> Biref. <sup>9</sup> Biref. <sup>9</sup> Coptical F Morph <sup>6</sup> Fiber Color <sup>7</sup> Fiber Color <sup>7</sup>	Properties  Properties  ND II  ND I  ND I  Extinction <sup>10</sup> Elongation <sup>11</sup> Elongation <sup>10</sup> Elongati	% Asbestc           Method Sof Duar           1234 56           VAE           1234 56           /           VAE           1234 56           /           VAE           1234 56           /           VAE           1234 56           /           VAE           Specify if difference           % Asbestc           VAE           1234 56           /           VAE           1234 56           /           VAE	78 78 78 78 78 78 78 78 78 78		PC VAE PC VAE PC VAE Nonfibr	Ant. %	Optical Char	entage racterístics <sup>14</sup>	Notes Analyst's Notes Analyst's Notes Analyst's Notes
Tiekd Sample # 16B Asbestos- Lab Sample # 1481694 Field Sample # 16C	Sample Type <sup>1</sup> Friability <sup>4</sup> F or N Containing Sample Desc Client-Suppled Data Sample Type <sup>1</sup> Client-Suppled Data Sample Type <sup>1</sup> Friability <sup>4</sup> F or N	Macroscopic Visual Gross <sup>2</sup> Sample Color <sup>3</sup> Texture <sup>5</sup> U Non-A macroscopic Visual Gross <sup>2</sup> Sample Color <sup>5</sup> Texture <sup>5</sup>	Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup> Pieochroism <sup>6</sup> Birel. <sup>9</sup> Sbestos Typ Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup> Pieochroism <sup>6</sup> Birel. <sup>9</sup>	roperties PD II PD II PD II Extinction <sup>10</sup> Elongation <sup>11</sup> COntail # Properties PD II PD II PD II Extinction <sup>10</sup> Ekongation <sup>1</sup>	Optical F Morph <sup>®</sup> Fiber Color <sup>7</sup> Pleochroism <sup>®</sup> Biref. <sup>9</sup> Optical F Morph <sup>®</sup> Fiber Color <sup>7</sup> Pleochroism <sup>®</sup> Biref. <sup>9</sup>	Properties         Properties           nD II         nD II           nD I         III           Particular         III           Extinction <sup>10</sup> III           For parties         nD II           InD II         III           InD II         III           InD II         III           InD III         III	Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup> Pleochroism <sup>6</sup> Biret. <sup>9</sup> Biret. <sup>9</sup> Coptical F Morph <sup>6</sup> Fiber Color <sup>7</sup> Pleochroism <sup>6</sup> Biret. <sup>9</sup>	Properties	*/ Abbesto           Method Sof Duar           1234 56           VAE           1234 56           /           VAE           1234 56           /           VAE           1234 56           /           VAE           1234 56           /           VAE           Specify if difference           */ Abbesto           VAE           1234 56           /           VAE           1234 56           /           VAE           1234 56           /           VAE	78 78 78 78 78 78 78 78 78 78		PC VAE PC VAE PC VAE Nonfibr	ant.     %       iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii	Optical Char	entage racterístics <sup>14</sup>	Notes
iekd Sample # 16B Asbestos- Lab Sample # 1481694 Field Sample # 16C Asbestos-	Sample Type <sup>1</sup> Friability <sup>4</sup> F or N Containing Sample Desc Client-Suppled Data Sample Type <sup>1</sup> Friability <sup>4</sup> F or N Containing	Macroscopic Visual Gross <sup>2</sup> Sample Color <sup>3</sup> Texture <sup>5</sup> Macroscopic Visual Gross <sup>2</sup> Sample Color <sup>5</sup> G Texture <sup>5</sup>	Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup> Pleochroism <sup>6</sup> Biref. <sup>9</sup> Sbestos Fiber Color <sup>7</sup> Fiber Color <sup>7</sup> Pleochroism <sup>6</sup> Fiber Color <sup>7</sup> Pleochroism <sup>6</sup>	roperties nD II nD I Extinction <sup>10</sup> Elongation <sup>11</sup> e #1 nD II nD II Elongation <sup>12</sup> Extinction <sup>10</sup> Extinction <sup>10</sup>	Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup> Pieochroism <sup>6</sup> Biref. <sup>9</sup> Optical F Hoochroism <sup>6</sup> Fiber Color <sup>7</sup> Fiber Color <sup>7</sup> Pieochroism <sup>6</sup>	Properties         Properties           nD II         nD II           nD I         III           Particular         III           Extinction <sup>10</sup> III           For parties         nD II           InD II         III           InD II         III           InD II         III           InD III         III	Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup> Pleochroism <sup>1</sup> Biref. <sup>9</sup> Biref. <sup>9</sup> Fiber Color Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup> Pleochroism <sup>1</sup> Fiber Color Biref. <sup>9</sup>	Properties □ □ □ □ □ □ □ ■ Extinction <sup>10</sup> Elongation <sup>11</sup> ■ Elongation <sup>11</sup> □ □ ■ Elongation <sup>11</sup> ■ Etinction <sup>10</sup> ■ Etinction <sup>10</sup> ■ Etinction <sup>10</sup> ■ Etinction <sup>10</sup> ■ Etinction <sup>11</sup> ■ Etinction <sup>11</sup> ■ Etinction <sup>11</sup> ■ Etinction <sup>11</sup>	*/Abbest           Method Sof Quar           123456           VAE           123456           /           VAE           123456           /           VAE           Specify if differe           */Abbest           */Abbest           /           VAE           Specify if differe           */Abbest           VAE           */Abbest           */Abbest	78 78 78 78 78 78 78 78 78 78		PC VAE PC VAE PC VAE Nonfibr	ant. %	Optical Char	entage racterístics <sup>14</sup>	Notes Autor Asbestos Stereo VAE% Analyst's Notes Analyst's Notes Analyst's Notes Asbestos Stereo
ield Sample # 16B Asbestos- Lab Sample # 1481694 ield Sample # 16C Asbestos- 2: Point Count	Sample Type <sup>1</sup> Friability <sup>4</sup> F or N Containing Sample Desc Client Supplied Data Sample Type <sup>1</sup> Friability <sup>4</sup> F or N Containing Containing COntaining CONTAINING CONTAININ	Macroscopic Visual Gross <sup>2</sup> Sample Color <sup>2</sup> Texture <sup>5</sup> U Non-A Sample Color Visual Gross <sup>2</sup> Texture <sup>5</sup> Visual Area E	Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup> Pieochroism <sup>6</sup> Biref. <sup>9</sup> Sbestos Typ Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup> Pieochroism <sup>6</sup> Biref. <sup>9</sup> Sbestos Biref. <sup>9</sup>	roperties         n         II           n         I         II         II           Extinction 10         II         III         III           Poperties         n         III         III         III           Inp I         II         III         IIII         III         III         III         III         III         IIII         IIII         IIII         IIII         IIII         IIII         IIII         IIIIIIIII         IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Optical F Morph <sup>®</sup> Fiber Color <sup>7</sup> Pieochroism <sup>®</sup> Biref. <sup>9</sup> Optical F Morph <sup>®</sup> Fiber Color <sup>7</sup> Pieochroism <sup>®</sup> Biref. <sup>9</sup> Pieochroism <sup>®</sup> Containe Pieochroism <sup>®</sup> Containe Pieochroism <sup>®</sup> Containe Pieochroism <sup>®</sup> Containe Conta	Properties	Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup> Pieochroism <sup>6</sup> Biref. <sup>9</sup> Biref. <sup>9</sup> Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup> Pieochroism <sup>6</sup> Biref. <sup>9</sup>	Properties  Properties  Constraints  Properties  Properties Properti	*/ Abbest           Method of Ouar           123436           VAE           123456           /           VAE           123456           /           VAE           Specify if differ           % Abbest           Method of Ouar           123456           /           VAE           Specify if differ           % Abbest           Method of Ouar           123456           /           VAE           123456           /           VAE           123456           /           VAE           123456           /           VAE           Specify if differ           Specify if differ           Rallysis:	rt. 78 78 78 78 78 78 78 78 78 78 78	% M	PC VAE PC VAE PC VAE Nonfib PC VAE PC VAE PC VAE	ant. %	Optical Char	antage racteristics <sup>14</sup>	Notes
ield Sample # 16B sbestos- .ab Sample # 481694 ield Sample # 16C sbestos- : Point Count relytical Met	Sample Type <sup>1</sup> Friability <sup>4</sup> F or N Containing Sample Desc Client Supplied Data Sample Type <sup>1</sup> Friability <sup>4</sup> F or N Containing Containing COntaining CONTAINING CONTAININ	Macroscopic Visual Gross <sup>2</sup> Sample Color <sup>2</sup> Texture <sup>5</sup> Wisual Gross <sup>2</sup> Visual Gross <sup>2</sup> Sample Color Texture <sup>5</sup> Visual Area E Visual Area E	Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup> Pieochroism <sup>6</sup> Biref. <sup>9</sup> Sbestos Typ Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup> Pieochroism <sup>6</sup> Biref. <sup>9</sup> Sbestos Biref. <sup>9</sup>	roperties nD II nD II Extinction <sup>10</sup> Elongation <sup>11</sup> Contail Restinction <sup>10</sup> Extinction <sup></sup>	Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup> Pieochroism <sup>6</sup> Biref. <sup>9</sup> Optical F Hoochroism <sup>6</sup> Fiber Color <sup>7</sup> Fiber Color <sup>7</sup> Pieochroism <sup>6</sup>	Properties	Optical F Morph <sup>6</sup> Fiber Color <sup>7</sup> Pleochroism <sup>6</sup> Biref. <sup>9</sup> Biref. <sup>9</sup> Pleochroism <sup>6</sup> Fiber Color <sup>7</sup> Pleochroism <sup>6</sup> Biref. <sup>9</sup> Biref. <sup>9</sup> Biref. <sup>9</sup>	Properties  Properties  Constraints  Properties  Properties Properti	*/ Abbest           Method of Ouar           123436           VAE           123456           /           VAE           123456           /           VAE           Specify if differ           % Abbest           Method of Ouar           123456           /           VAE           Specify if differ           % Abbest           Method of Ouar           123456           /           VAE           123456           /           VAE           123456           /           VAE           123456           /           VAE           Specify if differ           Specify if differ           Rallysis:	rt. 78 78 78 78 78 78 78 78 78 78 78 78 78	% M	PC VAE PC VAE PC VAE Nonfibr PC VAE PC VAE PC VAE PC VAE	ant. %	Optical Char	antage	Notes

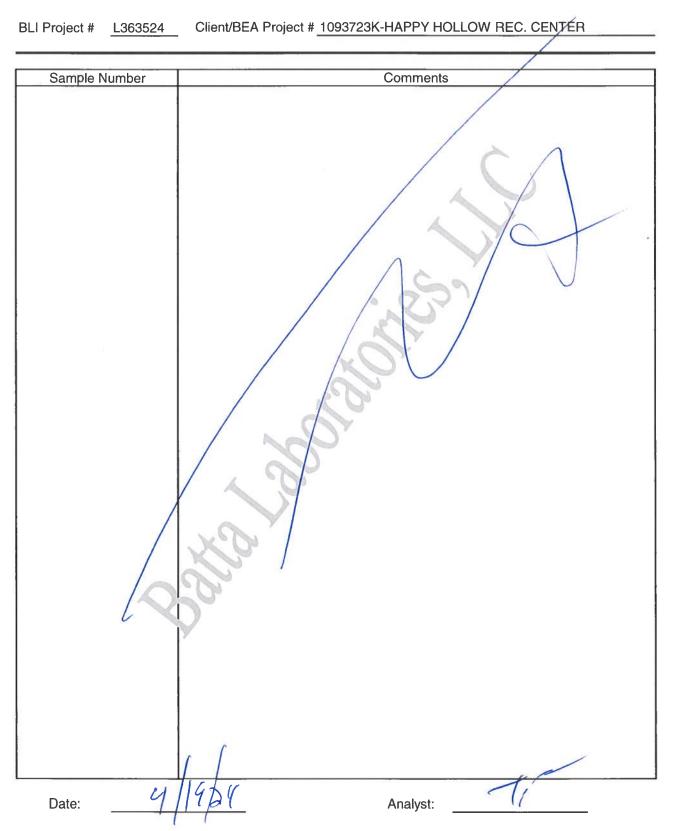
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				1			_		0 (Scope #3)	Niko						
IN Scope	ID#: Nikon	202306 (Sco	pe #1)	Leica	DM750P (S	cope #2)		mpus 24033	5 (Scope #4)	Niko					1pus 202705 (Sc	
			BLI P	roject #	<u>L363</u>	3524	Nar	ne of Cli	ent/Project	: <u>10</u>	937	723K-	HAPPY	HOLLO	W REC. C	ENTE
Sample	ә Туре <sup>1</sup>	Visual Gross <sup>2</sup>	٤	Sample Color	3	4 Friability	Sample Texture	Morphology	Fiber Color (in plane light)	Pleochroisn		9 <u>Bire</u> 1-lo 3-hi	Asbestos 12 Types	Non-Asbestos Types	Optical/Morph. 14 Characterístics	Non-Fibrous Types <sup>15</sup>
nperature (°C):			1 black	7 brown	13 orange		1 cementic.	1 wavy			-1-	2 medium	1 chrysotile	1 cellulose	1 undulose ext.	1 matrix
ulation	6 ceiling tile	1 Homogenous		8 blue	14 various	Friable	2 granular	2 straight	1 clear	1 no 2 y	- IT	10 xtinction	2 amosite	2 fiberglass	2 isotropic	2 binder
eetrock ofing material	7 linoleum 8 floor tile	2 Heterogeneous	l °	9 white 10 red	15 other	or Nontriable	3 librous 4 lirm	3 splayed end: 4 fiber bundles			- I	1 parallel 2 oblique	3 crocidolite 4 anthophyllite	3 mineral wool 4 synthetic fibe	3 shot 4 high birefringenc	3 CaSO <sub>4</sub> 4 CaCO <sub>2</sub>
- M	9 mastic/adhesive		5 silver	11 green			5 sott	5 single fibers	4 brown	d yes, give co	ior <u>El</u>	11 ongation	5 tremolite	5 wollastonite	5 mult.elon.(flips)	5 Vermiculite
int compound	10 plaster	3 Layered	6 gray	12 pink			6 paper-like	6 blocky	5 other			+ or -	6 actinolite	other	other	6 other
	Sample Desc		Asbes Optical P			tos #2 Properties	Asbes Optical P		% Asbestos Methog en Qua			Aethod of Q		n-Asbestos Typ		Analysi's Notes
ab Sample #	Client-Supplied Data	Macroscopic	Morph <sup>6</sup>	nD II	Morph <sup>6</sup>	nD II	Morph <sup>6</sup>	nD II	1234 6		• •	PC	Warn. 76	Optical C	haracteristics <sup>14</sup>	110103
481695	Sample ype'	Visual Gross <sup>2</sup>	Fiber Color <sup>7</sup>	nD T	Fiber Color <sup>7</sup>	- n <sub>D</sub> T	.Fiber Color <sup>7</sup>	n <sub>D</sub> T	VAE		-	VA	E			1.0
	[0]KIN								1234 56	78	+					late
ield Sample #	Friability <sup>4</sup>	Sample Color'	Pleochroism®	Extinction <sup>10</sup>	Pleochroism	Extinction	Pleochroism	Extinction	/			PC		4		
		9							VAE			VA	E	L		* scan
100	F or N	Texture <sup>5</sup>	Biref. <sup>9</sup>	Elongation <sup>11</sup>	Biref. <sup>9</sup>	Elongation <sup>11</sup>	Biret. <sup>9</sup>	Elongation <sup>11</sup>	1234 56	78		PC	1.5			Asbesto
16D		1					<u> </u>		VAE			VA	E	1		VAE %
							L	l				-	rous Types'	5 Pe	rcentage	-
sbestos-C	Containing	Non-A	sbestos	-Contair	nin g 🗆	An	alytical I	Method:	Mandatery				U	10		$\mathcal{O}$
	Sample Desc	·		e#1	Optical			e #3	% Asbes		<u> </u>	vethod of C	-	Non-Asbestos (		Analyst's Notes
.ab Sample #	Client-Supplied Data	Macroscopic	Optical P Morph <sup>6</sup>	nD II	Optical F Morph <sup>6</sup>	roperties nD II	Optical P Morph <sup>6</sup>	noperties ND 11	Methodol Qua		•	PC	luant. %	Optical C	haracteristics <sup>14</sup>	NOLOS
481696	Sample Type <sup>1</sup>	Visual Gross <sup>2</sup>	Fiber Color <sup>7</sup>	n <sub>D</sub> 1	Fiber Color <sup>7</sup>	n <sub>D</sub> 1	Fiber Color <sup>7</sup>	n <sub>D</sub> 1	VAE		-	VA	E	1		Cay+
ield Sample #	Friability <sup>4</sup>	Sample Color <sup>3</sup>	Pleochroism <sup>8</sup>	Extinction <sup>10</sup>	Pleochroism	Extinction <sup>10</sup>	Pleochroism <sup>6</sup>	Extinction <sup>10</sup>	1234 50	578		PC				Ĩ
		G				/			VAE			VA	E			* scan
16E	F or N	Texture <sup>5</sup>	Birel. <sup>9</sup>	Elongation <sup>31</sup>	Biref. <sup>9</sup>	Elongation <sup>11</sup>	Biref. <sup>9</sup>	Elongation <sup>11</sup>	1234 56			PC				Asbestos Stereo VAE %
				L					VAE			VA	rous Types	5 Pe	gentage	
sbestos-C	Containing a	Non-A	sbestos	-Contair	ning	An	alytical l	Method:	Specily it diffe	rent		Ttorine		10	0	1
	Sample Desc			e#1	Тур			e #3	% Asbes		_		-	Non-Asbestos (		Analyst's
Lab Sample #	Client-Supplied Data	Macroscopic	Optical F Morph <sup>6</sup>	roperties	Optical F Morph <sup>6</sup>	Properties	Optical F Morph <sup>6</sup>	roperties nDII	Method of Qua 12345		%	Method of C	Auant. %	Optical C	Characteristics <sup>14</sup>	Notes
12	Sample Type <sup>1</sup>	Visual Gross <sup>2</sup>							7		_	PC				
175	105410		Fiber Color <sup>7</sup>	ηDΤ	Fiber Color <sup>7</sup>	nD⊤	Fiber Color <sup>7</sup>	n <sub>D</sub> ⊥	VAE			VA	E		26	
Field Sample #	Friability <sup>4</sup>		Pleochroism <sup>8</sup>	Extinction <sup>10</sup>	Pleochroism	Extinction <sup>10</sup>	Pleochroism	Extinction <sup>10</sup>	1		_	PC				
		<u>۷</u>							1234 5 0		-	VA		-		* scan
it A	ForN	Texture <sup>5</sup>	Biret. <sup>9</sup>	Elongation <sup>11</sup>	Biref. <sup>9</sup>	Elongation <sup>1</sup>	<sup>1</sup> Biref. <sup>9</sup>	Elongation <sup>11</sup>	/ 		_	PC VA	E	-		Asbesto Stereo VAE %
		<u> </u>	I	1		I	I						orous Types	5 Pe	rcentage	A
sbestos-	Containing 🗆	Non-A	sbestos	-Contai			nalytical	Method:	Specify if diffe	rent			10		10	
	Sample Desc		_	e#1	Typ			e#3 Proportios	% Asbes		× 1	Method of C		Non-Asbestos (		Analysi's Notes
Lab Sample #	Client-Supplied Data	Macroscopic	Optical F Morph <sup>6</sup>	Properties D II	Optical I Morph <sup>6</sup>	Properties nD II	Optical F Morph <sup>6</sup>	Properties ND II	Method of Du	678	%		Quant, %	Optical (	Characteristics <sup>14</sup>	140105
76	Sample Type <sup>1</sup>	Visual Gross <sup>2</sup>	Fiber Color <sup>7</sup>	п <sub>D</sub> т	Fiber Color <sup>7</sup>	n <sub>D</sub> T	Fiber Color <sup>7</sup>	nD T	VAE		-	PC VA	LE L			
	1010 11	Sample Color	Pleochroism	Extinction <sup>10</sup>	Pleochroism	<sup>8</sup> Extinction <sup>10</sup>	Pleochroism	Extinction <sup>10</sup>	1234 5	678	1	PC			5315L	1
Field Sample #	Friability <sup>4</sup>	<u>l</u>		<u> </u>			<u> </u>		VAE			VA	E	1		* scan
	F or N	Texture <sup>5</sup>	Biref. <sup>9</sup>	Elongation	Biref. <sup>9</sup>	Elongation	<sup>1</sup> Biref. <sup>9</sup>	Elongation <sup>11</sup>	12345	678		PC				Asbesto
6B		H							VAE		-	n VA	€ ſ			Stereo VAE %
						-						Nonf	prous Types	5	rcentage	10
Asbestos-(	Containing	Non-A	Asbestos	Contai	nîng 🗆	Ar	nalytical	Method:	Specify if diffe	rent	1	//	le			
: Point Count; nalytical Me	VAE: (Calibrated)		Estimate (in ng scan opti			n in notoe h			Analysis:	stos contair		19		Analyst:		Ps definitio
•	3/116 Without Grav		a acan obli			: 1000 Poin		NULE. D	similar of doubt						8 N.J.R. 2526)	

# BATTA PLM Bench Sheet

BATT	A PLM	Ben	ch S	hee	t			mpus 221810	(Scope #3)	Nikon :	22212 (S	cope #	5)	Page of	of	
PLM Scope	ID#: Nikor	n 202306 (So	ope #1)	Olym	pus 222204	(Scope #2		mpus 240335		Nikon	102293 (S	соре #	6)		nous 202705 (Se	cope #7)
			BLI P	roject #			Na	me of Clie	ent/Project	:						
Samo	е Туре	2 Visual Gross		Sample Color	3	4 Friability	Sample 5	6 Morphology	Fiber Color (In plane light)	Pleochroism <sup>8</sup>	Bire 9	A	sbestos 12 ypes	Non-Asbestos	14	Non-Fibrous
Temperature (°C):			1 black	7 brown	13 orange		Texture 1 cementic.	1 wavy	(in plane signi)		1-lo 3- 2 mediu		rysotile	Types 1 cellulose	Characteristics 1 undulose ext.	Types 1 matrix
1 insulation	6 ceiling tile	1 Homogenous	2 tan	8 blue	14 various	Friable	2 granular	2 straight	1 clear	1 no 2 yes	Extinction	10	nosita	2 fiberglass	2 isotropic	2 binder
2 sheetrock 3 roofing material	7 linoleum 8 floor tile	2 Heterogeneous	3 gold 4 yellow	9 white 10 red	15 other	or Nonfriable	3 fibrous 4 firm	3 splayed ends 4 fiber bundles	2 tan 3 blue		1 parall 2 obliqu		ocidolite thophyllite	3 mineral wool 4 synthetic fibe		3 CaSO <sub>4</sub> 4 CaCO <sub>2</sub>
4 soi	9 mastic/adhesive	2 11010103010000	5 silver	11 green		FNORTRADIO	5 soft	5 single fibera	4 brown	if yes, give color	Elongation	11	molite	5 wollastonite	5 mult.elon.(flips)	5 Vermiculite
5 joint compound	10 plaster	3 Layered	6 gray	12 pink			6 paper-like	6 blocky	5 other		+ or		tinolite	other	other	6 other
	Sample Desc Client-Supplied Data			tos #1 Properties		stos #2 Properties		itos #3 Properties	% Asbestos Method of Qua		Method		ibrous Nor %	Optical C	e (13) haracteristics <sup>14</sup>	Analyst's Notes
Lab Sample #		2	Morph <sup>6</sup>	"D II	Morph	"D II	Morph <sup>6</sup>	11 011	1284 50		P	;		0,000,0		
14832	Sample Type'	Visual Gross*	Eiber Color <sup>7</sup>	nD T	Fiber Color <sup>7</sup>	TOT	Fiber Color <sup>7</sup>	···D 포	VAE			VAE		1		
10	10phk								1234 56	78						-
Field Sample #	Friability <sup>4</sup>	Sample Color <sup>3</sup>	Pleochroism	Extinction <sup>10</sup>	Pleochroism	Extinction <sup>\$0</sup>	Pleochroism	Extinction <sup>10</sup>	1		P			1		1
		4				1			VAE			VAE				scan*
160	F or N	Texture <sup>5</sup>	Biref. <sup>9</sup>	Elongation <sup>11</sup>	Biref. <sup>9</sup>	Elongation <sup>11</sup>	Biref. <sup>9</sup>	Elongation <sup>11</sup>	1234 50	578	P					Asbestos Stereo
160		9			1	1			VAE			VAE		1		VAE %
Achectes	Contolping of	Non A	sbestos	Contair		A	alytical	Method:	Maydata		No	hibrous	Types <sup>15</sup>	Per	rçentage	P
ASD851054	Sample Desc			e#1		6 #2		e#3	% Asbes	tos (12)			Porous	Non-Asbestos (	13)	Analyst's
Lab Sample #	Client-Supplied Data	Macroscopic	Optical F	Properties	Optical F	Properties	Optical F	Properties	Method of Qua		Method	of Quant.	%	Optical C	haracteristics <sup>14</sup>	Notes
	Sample Type <sup>1</sup>	Visual Gross <sup>2</sup>	Morph <sup>6</sup>		Morph <sup>6</sup>		Morph®			5/6	P					
173	10841		Fiber Color <sup>7</sup>	лDт	Fiber Color <sup>7</sup>	шD Т	Fiber Color <sup>7</sup>	- UD T	VAE			/AE				
112	10 5 4 10	5-1-0-1-3	District	Extinction <sup>10</sup>	Pleochroism	Extinction <sup>10</sup>	Pleochroism	Extinction <sup>10</sup>	1234 50	578	P					1
Field Sample #	Friability <sup>4</sup>	Sample Color"	Pleochroism	Exunction	Pieochroism	Exuncuon	Pieochroism	Exancuon	VAE			VAE		1		scan *
		U				1			1234 5 f		++-	-		<u> </u>		<u> </u>
IGD	F or N	Texture	Biref. <sup>9</sup>	Elongation <sup>11</sup>	Biref. <sup>9</sup>	E ongation <sup>11</sup>	Biref. <sup>9</sup>	Elongation <sup>11</sup>	1		P			1		Asbestos Stereo
100					IA /	1			VAE			VAE	1			VAE
Asbestos-	Containing D	Non-A	sbestos	-Contair		An	alytical	Method:	Specify if diffe	rent	No	fibrous	Tipes 15	10	geentrige	0
	Sample Desc	riplions	Тур	e #1	Тур	e #2	Тур	ie #3	% Asbes					Non-Asbestos (		Analyst's
Lab Sample #	Client-Supplied Data	Macroscopic	Optical F Morph <sup>6</sup>	Properties	Optical f Morph <sup>6</sup>	Properties	Optical I Morph <sup>6</sup>	Properties	Mainod of Cau		Method	1	*	Optical C	haracteristics <sup>14</sup>	Notes
1.01	Sample Type <sup>1</sup>	Visual Gross <sup>2</sup>		щD т		nD 1		MD T	1			·				1
174	TERUC		Fiber Color		Fiber Color		Fiber Color		VAE			VAE				
		Sample Color <sup>3</sup>	Pleochroism	Extinction <sup>10</sup>	Pleochroism	Extinction <sup>10</sup>	Pleochroism	Extinction <sup>10</sup>	1234 5	678	P		-			
Field Sample #	Friability <sup>4</sup>	t.				1			VAE			VAE	1	1		scan*
1. 1.	ForN	Texture <sup>5</sup>	Biref. <sup>9</sup>	Elongation <sup>11</sup>	Biref. <sup>9</sup>	E orgation <sup>1</sup>	Biref. <sup>9</sup>	Elongation <sup>11</sup>	1234 5	678	P		1			Asbestos
160	- UITE	11		-toto - Baradari					VAE		1 -	VAE	0			Stereo VAE %
		-(					1		1		1000		Tipes <sup>15</sup>	Pe	rcentage	17
Asbestos-	Containing		sbestos	-Contai			alytical		Specify if diffe				6	10	10	
	Sample Desc Client-Supplied Data			e #1 Properties		e #2 Properties		Properties	% Asbes Method of Qu		Method	of Quant.		Non-Asbestos ( Optical C	13) Characteristics <sup>14</sup>	Analyst's Notes
Lab Sample #			Morph <sup>6</sup>	ווסיי	Morph <sup>6</sup>	ווסיי	Morph <sup>6</sup>	II D <sup>m</sup>	1234 5		P	1			A CONTRACTOR	
	Sample Type'	Visual Gross <sup>4</sup>	Fiber Color <sup>7</sup>	ד טיי	Fiber Color <sup>7</sup>	ד סיי	Fiber Color		VAE		1 -	VAE	1	1		
									1234 5			1				-
Field Sample #	Friability <sup>4</sup>	Sample Color <sup>3</sup>	Pleochroism	Extinction <sup>10</sup>	Pleochroism	Extinction <sup>10</sup>	Pleochroism	Extinction <sup>10</sup>	/		P	C		1		
									VAE			VAE				scan*
	ForN	Texture <sup>5</sup>	Biref. <sup>9</sup>	Elongation	Biref. <sup>9</sup>	Elongation <sup>1</sup>	1 Biref. <sup>9</sup>	Elongation <sup>11</sup>	1234 5	678	P	0 1	1			Asbestos Stereo
						1			VAE			VAE		1		VAE %
		AL									No	nfibrous	Types <sup>15</sup>	Pe	rcentage	11
	Containing		sbestos			L Ar	alytical		Specify if diffe		14	1.1	M	L	-1	10
DK 400 - 00	VAE: (Calibrated)							Date of A				71		Analyst:		a dafaw
	3/116 Without Grav		tion for ELA	4. EPA/60	0/R-93/116	1000 Poin	t Count	Note: De	nnition of asbes	7. Sta	te d New				on EPA NESHA 8 N J.R. 2526)	rs definition
	3/116 With Gravine 3/116: 400 Point Co				DB Chatfield		d Point Cour	nt)			RB 435 ler (speci	y):				
				and the second se									-			

**Analysts' Notes** 

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The handwritten notes on this page are based on the professional judgment of the analyst and are for informational purposes only. Due to this, they should not be considered analytical data.