NYC 9/11 Public Portal Document

104 Elden Street
Herndon, Virginia 20170

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Facsimile: 703 • 471-0020

HPE

HP ENVIRONMENTAL
INCORPORATED

est Request Form

Page ____ of ____

CLIENT NAME: ET ENVIRONMENTAL	FOR LABORATORY USE ONLY — RPT. NO. — REF. NO. 35813
ADDRESS	RECEIVED BY: DATE
	ANALYZED BY: DATE
PHONE / FAX	REVIEWED BY: DATE

PLEASE TYPE OR PRESS HARD WITH BALL POINT PEN.

P.O. # / CONTRACT # / CALL # / JOB # CONTACT PERSON	COLLECTED BY: DATE
PROJECT LOCATION	SUBMITTED BY: DATE
TEST(S) REQUESTED OR TEST CODES (NOTE WITH EACH SAMPLE IF NECESSARY)	TOTAL NUMBER OF SAMPLES / MODE OF SHIPMENT
☐ ROUTINE ☐ RUSH ☐ FAX ☐ PHONE	DESCRIBE THE PACKAGE OR SAMPLES

SAMPLE NO.	TYPE	SAMPLE LOCATION & REMARKS	VOLUME / AREA
NO. 01 WTC 092201-01	AIR	GC/MS-TD FOR VOC'S ; ON UPPER CAB	FLOW 0.122 TIME ON 9:15 FLOW 0.122 TIME OFF 11:30
TEST CODE		ROOF OF "BAY CRANE" NEXT TO BLDG 7 RUBBLE.	LITERS OR AREA
NO. 02 " -02	AIR	ANION/ACID SCREEN ; " "	FLOW TIME ON FLOW TIME OFF
TEST CODE		" " "	LITERS OR AREA
" -03	AIR	FLORISIL (PCB) ; " "	FLOW TIME ON FLOW TIME OFF
CODE:		" " "	LITERS OR AREA
NO. 04 " -04	AIR	C-102 - CHLORINATED COMPOUNDS ; "	FLOW TIME ON FLOW TIME OFF
TEST CODE:		" " "	LITERS OR AREA
NO. 05 -05	AIR	CHARCOAL - VOC ; " "	FLOW TIME ON FLOW TIME OFF
TEST CODE:		" " "	LITERS OR AREA
NO. 06 -06	AIR	FILTER - BENZENE SOLUBLE OPM ; "	FLOW TIME ON FLOW TIME OFF
TEST CODE:		" " "	LITERS OR AREA
NO. 07 -07	AIR	FILTER - 23 METAL SCREEN ; " "	FLOW TIME ON FLOW TIME OFF
TEST CODE		" " " "	LITERS OR AREA
NO. 08 -08	AIR	GC/MS-TD FOR VOCS ; " "	FLOW TIME ON FLOW TIME OFF
TEST CODE:		" " " "	LITERS OR AREA
NO. 09 -09	AIR	FILTER ASBESTOS TEM ; " "	FLOW TIME ON FLOW TIME OFF
TEST CODE		" " " "	LITERS OR AREA
NO. 10 -10	AIR	FILTER ASBESTOS TEM - PERSONAL PIOTR	FLOW TIME ON FLOW TIME OFF
TEST CODE:		CHMIELINSKI ; DURING WORK NEAR RUBBLE	LITERS OR AREA
NO. 11			FLOW TIME ON FLOW TIME OFF
TEST CODE			LITERS OR AREA
NO.			FLOW TIME ON FLOW TIME OFF
CODE:			LITERS OR AREA

TERMS & FORM INSTRUCTIONS ARE LISTED ON THE BACK — RETAIN THE LAST (PINK) COPY FOR YOUR RECORDS — SUBMIT THE WHITE & YELLOW COPIES TO THE LAB

06.002306

CONFIDENTIAL, CITY_21MC100_003416307

SUBJECT TO PROTECTIVE ORDER NO. 2, SEPT. 2008

NYC-WTC_000174975

NYC 9/11 Public Portal Document

Report #

Bulk Asbestos Worksheet

Analyst Name

Date Received

Date Examined 9/23/01

Client Name

Client Sample Number WTC-BT-09201-01

Lab Sample Number

Job Site:

Sample Location:

Sample Color: Mg white

Gross Description:

Gross Description	yes	no
homogeneous	☑	☐
friable	☑	☐
fibrous	☑	☐
cementitious	☐	☑

Total Asbestos Present 7-5 %

1 chrysotile 7-5 %

2 amosite ____ %

3 crocidolite ____ %

4 ____ ____ %

Total Non-Asbestos Fibrous Material Present 55-60 %

5 cellulose 20-25 %

6 fibrous glass 30-35 %

7 other fibers Trace %

8 ____ ____ %

Total Non-Asbestos Non-Fibrous Material 30-35 %

9 unspecified binding materials ____ %

Mount/ Finding	Polarized Bright Light: n oil	Morphology	Refractive Index	Crossed Polars: Biref.	Sign of Elongation	Disp. Staining: Colors
7	☐ 1.550 ☐ 1.605 ☐ 1.680 ☐	☐ Straight ☐ Wavy ☐ Bundles ☐ Singular ☐ Ribbon ☐	Parallel — Perpendicular =	☐ low ☐ med. ☐ high ☐ none	☐ none ☐ negative ☐ positive	☐ ...blue... ☐ ☐ ..yellow.. ☐ ☐ .magneta. ☐ ☐ ...gold... ☐ ☐ ____ ☐
				ext. angle 0		
8	☐ 1.550 ☐ 1.605 ☐ 1.680 ☐	☐ Straight ☐ Wavy ☐ Bundles ☐ Singular ☐ Ribbon ☐	Parallel > Perpendicular <	☐ low ☐ med. ☐ high ☐ none	☐ none ☐ negative ☐ positive	☐ ...blue... ☐ ☐ ..yellow.. ☐ ☐ .magneta. ☐ ☐ ...gold... ☐ ☐ ____ ☐
				ext. angle		
9	☐ 1.550 ☐ 1.605 ☐ 1.680 ☐	☐ Straight ☐ Wavy ☐ Bundles ☐ Singular ☐ Ribbon ☐	Parallel > Perpendicular =	☐ low ☐ med. ☐ high ☐ none	☐ none ☐ negative ☐ positive	☐ ...blue... ☐ ☐ ..yellow.. ☐ ☐ .magneta. ☐ ☐ ...gold... ☐ ☐ ____ ☐
				ext. angle		
	☐ 1.550 ☐ 1.605 ☐ 1.680 ☐	☐ Straight ☐ Wavy ☐ Bundles ☐ Singular ☐ Ribbon ☐	Parallel Perpendicular	☐ low ☐ med. ☐ high ☐ none	☐ none ☐ negative ☐ positive	☐ ...blue... ☐ ☐ ..yellow.. ☐ ☐ .magneta. ☐ ☐ ...gold... ☐ ☐ ____ ☐
				ext. angle		
	☐ 1.550 ☐ 1.605 ☐ 1.680 ☐	☐ Straight ☐ Wavy ☐ Bundles ☐ Singular ☐ Ribbon ☐	Parallel Perpendicular	☐ low ☐ med. ☐ high ☐ none	☐ none ☐ negative ☐ positive	☐ ...blue... ☐ ☐ ..yellow.. ☐ ☐ .magneta. ☐ ☐ ...gold... ☐ ☐ ____ ☐
				ext. angle		
	☐ 1.550 ☐ 1.605 ☐ 1.680 ☐	☐ Straight ☐ Wavy ☐ Bundles ☐ Singular ☐ Ribbon ☐	Parallel Perpendicular	☐ low ☐ med. ☐ high ☐ none	☐ none ☐ negative ☐ positive	☐ ...blue... ☐ ☐ ..yellow.. ☐ ☐ .magneta. ☐ ☐ ...gold... ☐ ☐ ____ ☐
				ext. angle		
	☐ 1.550 ☐ 1.605 ☐ 1.680 ☐	☐ Straight ☐ Wavy ☐ Bundles ☐ Singular ☐ Ribbon ☐	Parallel Perpendicular	☐ low ☐ med. ☐ high ☐ none	☐ none ☐ negative ☐ positive	☐ ...blue... ☐ ☐ ..yellow.. ☐ ☐ .magneta. ☐ ☐ ...gold... ☐ ☐ ____ ☐
				ext. angle		

Refer to WAL/NA SOP #

SUBJECT TO PROTECTIVE ORDER NO. 2, SEPT. 2008

CONFIDENTIAL,

CITY_21MC100_003416308

06.002307

NYC-WTC_000174976

NYC 9/11 Public Portal Document

Bulk Asbestos Worksheet

Report #

Analyst Name

Date Received

Date Examined 9/23/01

Client Name

Client Sample Number WTC-BT-09201-02

Lab Sample Number

Job Site:

Sample Location:

Sample Color: off white

Gross Description:

Gross Description	yes	no
homogeneous	☒	☐
friable	☒	☐
fibrous	☒	☐
cementitious	☐	☒

Total Asbestos Present ≤1 %

1	chrysotile	Trace %
2	amosite	%
3	crocidolite	%
4		%

Total Non-Asbestos Fibrous Material Present 65-70 %

5	cellulose	30-35 %
6	fibrous glass	30-35 %
7	other fibers	%
8		%

Total Non-Asbestos Non-Fibrous Material 25-30 %

9	unspecified binding materials	%

vermiculite
Mica

Mount/ Finding	Polarized Bright Light: n oil	Morphology	Refractive Index	Crossed Polars: Biref.	Sign of Elongation	Disp. Staining: Colors
1	☒ 1.550 ☐ 1.605 ☐ 1.680 ☐	☐ Straight ☐ Wavy ☐ Bundles ☐ Singular ☒ Ribbon ☐	Parallel / Perpendicular	☐ low ☒ med. ☐ high ☐ none	☐ none ☐ negative ☒ positive	☐ ...blue... ☐ ..yellow.. ☐ .magneta. ☐ ...gold... ☐ ☐
				ext. angle		
2	☒ 1.550 ☐ 1.605 ☐ 1.680 ☐	☒ Straight ☐ Wavy ☐ Bundles ☐ Singular ☐ Ribbon ☐	Parallel / Perpendicular	☐ low ☐ med. ☐ high ☒ none	☐ none ☐ negative ☐ positive	☐ ...blue... ☒ ..yellow.. ☐ .magneta. ☐ ...gold... ☐ ☐
				ext. angle		
	☐ 1.550 ☐ 1.605 ☐ 1.680 ☐	☐ Straight ☐ Wavy ☐ Bundles ☐ Singular ☐ Ribbon ☐	Parallel / Perpendicular	☐ low ☐ med. ☐ high ☐ none	☐ none ☐ negative ☐ positive	☐ ...blue... ☐ ..yellow.. ☐ .magneta. ☐ ...gold... ☐ ☐
				ext. angle		
	☐ 1.550 ☐ 1.605 ☐ 1.680 ☐	☐ Straight ☐ Wavy ☐ Bundles ☐ Singular ☐ Ribbon ☐	Parallel / Perpendicular	☐ low ☐ med. ☐ high ☐ none	☐ none ☐ negative ☐ positive	☐ ...blue... ☐ ..yellow.. ☐ .magneta. ☐ ...gold... ☐ ☐
				ext. angle		
	☐ 1.550 ☐ 1.605 ☐ 1.680 ☐	☐ Straight ☐ Wavy ☐ Bundles ☐ Singular ☐ Ribbon ☐	Parallel / Perpendicular	☐ low ☐ med. ☐ high ☐ none	☐ none ☐ negative ☐ positive	☐ ...blue... ☐ ..yellow.. ☐ .magneta. ☐ ...gold... ☐ ☐
				ext. angle		
	☐ 1.550 ☐ 1.605 ☐ 1.680 ☐	☐ Straight ☐ Wavy ☐ Bundles ☐ Singular ☐ Ribbon ☐	Parallel / Perpendicular	☐ low ☐ med. ☐ high ☐ none	☐ none ☐ negative ☐ positive	☐ ...blue... ☐ ..yellow.. ☐ .magneta. ☐ ...gold... ☐ ☐
				ext. angle		
	☐ 1.550 ☐ 1.605 ☐ 1.680 ☐	☐ Straight ☐ Wavy ☐ Bundles ☐ Singular ☐ Ribbon ☐	Parallel / Perpendicular	☐ low ☐ med. ☐ high ☐ none	☐ none ☐ negative ☐ positive	☐ ...blue... ☐ ..yellow.. ☐ .magneta. ☐ ...gold... ☐ ☐
				ext. angle		

06.002108

CONFIDENTIAL,
SUBJECT TO PROTECTIVE ORDER NO. 2, SEPT. 2008
CITY_21MC100_003416309

NYC-WTC_000174977

NYC 9/11 Public Portal Document

Bulk Asbestos Worksheet

Report #

Date Received

Date Examined 9/22/01

Analyst Name

Client Name

Client Sample Number WTC-B7-092201-03

Lab Sample Number

Job Site:

Sample Location:

Sample Color: # white

Gross Description:

Gross Description	yes	no
homogeneous	☒	☐
friable	☒	☐
fibrous	☒	☐
cementitious	☐	☒

Total Asbestos Present 2 %

1 chrysotile 40 %

2 amosite % 4-70

3 crocidolite %

4 % 4-70

Total Non-Asbestos Fibrous Material Present 4 %

5 cellulose 30-35 %

6 fibrous glass 30-36 %

7 other fibers %

8 % 4-30

Total Non-Asbestos Non-Fibrous Material %

9 unspecified binding materials %

Mount/ Finding	Polarized Bright Light: n oil	Morphology	Refractive Index	Crossed Polars: Biref.	Sign of Elongation	Disp. Staining: Colors
3	☐ 1.550 ☐ 1.605 ☐ 1.680 ☐	☐ Straight ☐ Wavy ☐ Bundles ☐ Singular ☒ Ribbon ☐	Parallel / Perpendicular	☐ low ☒ med. ☐ high ☐ none; ext. angle	☐ none ☐ negative ☒ positive	☐ ...blue... ☐ ☒ ..yellow.. ☐ ☐ .magneta. ☐ ☐ ...gold... ☐ ☐ ____ ☐
	☐ 1.550 ☐ 1.605 ☐ 1.680 ☐	☐ Straight ☐ Wavy ☐ Bundles ☐ Singular ☐ Ribbon ☐	Parallel / Perpendicular	☐ low ☐ med. ☐ high ☐ none; ext. angle	☐ none ☐ negative ☐ positive	☐ ...blue... ☐ ☐ ..yellow.. ☐ ☐ .magneta. ☐ ☐ ...gold... ☐ ☐ ____ ☐
	☐ 1.550 ☐ 1.605 ☐ 1.680 ☐	☐ Straight ☐ Wavy ☐ Bundles ☐ Singular ☐ Ribbon ☐	Parallel / Perpendicular	☐ low ☐ med. ☐ high ☐ none; ext. angle	☐ none ☐ negative ☐ positive	☐ ...blue... ☐ ☐ ..yellow.. ☐ ☐ .magneta. ☐ ☐ ...gold... ☐ ☐ ____ ☐
	☐ 1.550 ☐ 1.605 ☐ 1.680 ☐	☐ Straight ☐ Wavy ☐ Bundles ☐ Singular ☐ Ribbon ☐	Parallel / Perpendicular	☐ low ☐ med. ☐ high ☐ none; ext. angle	☐ none ☐ negative ☐ positive	☐ ...blue... ☐ ☐ ..yellow.. ☐ ☐ .magneta. ☐ ☐ ...gold... ☐ ☐ ____ ☐
	☐ 1.550 ☐ 1.605 ☐ 1.680 ☐	☐ Straight ☐ Wavy ☐ Bundles ☐ Singular ☐ Ribbon ☐	Parallel / Perpendicular	☐ low ☐ med. ☐ high ☐ none; ext. angle	☐ none ☐ negative ☐ positive	☐ ...blue... ☐ ☐ ..yellow.. ☐ ☐ .magneta. ☐ ☐ ...gold... ☐ ☐ ____ ☐
	☐ 1.550 ☐ 1.605 ☐ 1.680 ☐	☐ Straight ☐ Wavy ☐ Bundles ☐ Singular ☐ Ribbon ☐	Parallel / Perpendicular	☐ low ☐ med. ☐ high ☐ none; ext. angle	☐ none ☐ negative ☐ positive	☐ ...blue... ☐ ☐ ..yellow.. ☐ ☐ .magneta. ☐ ☐ ...gold... ☐ ☐ ____ ☐

06.002309

SUBJECT TO PROTECTIVE ORDER NO. 2, SEPT. 2008

CONFIDENTIAL,

CITY_21MC100_003416310

NYC-WTC_000174978

NYC 9/11 Public Portal Document

Bulk Asbestos Worksheet

Report #

Analyst Name

Date Received

Date Examined 9/23/01

Client Name

Client Sample Number WTC-BT-092201-~~BS~~43

Lab Sample Number 64

Job Site:

Sample Location:

Sample Color: off white

Gross Description:

Gross Description	yes	no
homogeneous	☑	☐
friable	☑	☐
fibrous	☑	☐
cementitious	☐	☑
	☐	☑

Total Asbestos Present 7-5 %

1 chrysotile 7-5 %

2 amosite ____ %

3 crocidolite ____ %

4 ____ ____ %

Total Non-Asbestos Fibrous Material Present 55-60 %

5 cellulose 25-30 %

6 fibrous glass 25-30 %

7 other fibers ____ %

8 ____ ____ %

Total Non-Asbestos Non-Fibrous Material 30-35 %

9 unspecified binding materials ____ %

Mount/ Finding	Polarized Bright Light: n oil	Morphology	Refractive Index	Crossed Polars: Biref.	Sign of Elongation	Disp. Staining: Colors
3 7	☐ 1.550 ☐ 1.605 ☐ 1.680 ☐	☐ Straight ☑ Wavy ☐ Bundles ☐ Singular ☐ Ribbon ☐	Parallel = Perpendicular =	☐ low ☐ med. ☐ high ☐ none ext. angle 0	☐ none ☐ negative ☐ positive	☐ ..blue... ☐ ☐ ..yellow.. ☐ ☐ .magneta. ☐ ☐ ...gold... ☐ ☐ ____ ☐
3 5	☐ 1.550 ☐ 1.605 ☐ 1.680 ☐	☐ Straight ☐ Wavy ☐ Bundles ☑ Singular ☑ Ribbon ☐	Parallel = Perpendicular =	☐ low ☐ med. ☐ high ☐ none ext. angle	☐ none ☐ negative ☐ positive	☐ ..blue... ☐ ☐ ..yellow.. ☐ ☐ .magneta. ☐ ☐ ...gold... ☐ ☐ ____ ☐
3	☐ 1.550 ☐ 1.605 ☐ 1.680 ☐	☐ Straight ☑ Wavy ☐ Bundles ☐ Singular ☐ Ribbon ☐	Parallel > Perpendicular	☐ low ☐ med. ☐ high ☐ none ext. angle	☐ none ☐ negative ☐ positive	☐ ...blue... ☐ ☐ ..yellow.. ☐ ☐ .magneta. ☐ ☐ ...gold... ☐ ☐ ____ ☐
	☐ 1.550 ☐ 1.605 ☐ 1.680 ☐	☐ Straight ☐ Wavy ☐ Bundles ☐ Singular ☐ Ribbon ☐	Parallel Perpendicular	☐ low ☐ med. ☐ high ☐ none ext. angle	☐ none ☐ negative ☐ positive	☐ ...blue... ☐ ☐ ..yellow.. ☐ ☐ .magneta. ☐ ☐ ...gold... ☐ ☐ ____ ☐
	☐ 1.550 ☐ 1.605 ☐ 1.680 ☐	☐ Straight ☐ Wavy ☐ Bundles ☐ Singular ☐ Ribbon ☐	Parallel Perpendicular	☐ low ☐ med. ☐ high ☐ none ext. angle	☐ none ☐ negative ☐ positive	☐ ...blue... ☐ ☐ ..yellow.. ☐ ☐ .magneta. ☐ ☐ ...gold... ☐ ☐ ____ ☐
	☐ 1.550 ☐ 1.605 ☐ 1.680 ☐	☐ Straight ☐ Wavy ☐ Bundles ☐ Singular ☐ Ribbon ☐	Parallel Perpendicular	☐ low ☐ med. ☐ high ☐ none ext. angle	☐ none ☐ negative ☐ positive	☐ ...blue... ☐ ☐ ..yellow.. ☐ ☐ .magneta. ☐ ☐ ...gold... ☐ ☐ ____ ☐
	☐ 1.550 ☐ 1.605 ☐ 1.680 ☐	☐ Straight ☐ Wavy ☐ Bundles ☐ Singular ☐ Ribbon ☐	Parallel Perpendicular	☐ low ☐ med. ☐ high ☐ none ext. angle	☐ none ☐ negative ☐ positive	☐ ...blue... ☐ ☐ ..yellow.. ☐ ☐ .magneta. ☐ ☐ ...gold... ☐ ☐ ____ ☐
	☐ 1.550 ☐ 1.605 ☐ 1.680 ☐	☐ Straight ☐ Wavy ☐ Bundles ☐ Singular ☐ Ribbon ☐	Parallel Perpendicular	☐ low ☐ med. ☐ high ☐ none ext. angle	☐ none ☐ negative ☐ positive	☐ ...blue... ☐ ☐ ..yellow.. ☐ ☐ .magneta. ☐ ☐ ...gold... ☐ ☐ ____ ☐

06.002310

SUBJECT TO PROTECTIVE ORDER NO. 2, SEPT. 2008

CONFIDENTIAL,

CITY_21MC100_003416311

NYC-WTC_000174979

NYC 9/11 Public Portal Document

Report #

Bulk Asbestos Worksheet

Analyst Name

Date Received

Date Examined 9/22/01

Client Name

Client Sample Number WTC-BT-09201-05

Lab Sample Number

Job Site:

Sample Location:

Sample Color: off white

Gross Description: wet

Gross Description	yes	no
homogeneous	☑	☐
friable	☑	☐
fibrous	☐	☑
cementitious	☐	☑

Total Asbestos Present 7-5 %

1 chrysotile 7-5 %
2 amosite ____ %
3 crocidolite ____ %
4 ____ ____ %

Total Non-Asbestos Fibrous Material Present 45-50 %

5 cellulose 20-25 %
6 fibrous glass 20-25 %
7 other fibers ____ %
8 ____ ____ %

Total Non-Asbestos Non-Fibrous Material 40-45 %

9 unspecified binding materials ____ %

Mount/ Finding	Polarized Bright Light: n oil	Morphology	Refractive Index	Crossed Polars: Biref.	Sign of Elongation	Disp. Staining: Colors
3T	☑ 1.550 ☐ 1.605 ☐ 1.680 ☐	☐ Straight ☑ Wavy ☐ Bundles ☐ Singular ☐ Ribbon ☐	Parallel — Perpendicular =	☐ low ☐ med. ☐ high ☐ none; ext. angle 0	☐ none ☐ negative ☐ positive	☐ ...blue... ☐ ☐ ..yellow.. ☐ ☐ .magneta. ☐ ☐ ...gold... ☐
3T	☑ 1.550 ☐ 1.605 ☐ 1.680 ☐	☐ Straight ☐ Wavy ☐ Bundles ☐ Singular ☐ Ribbon ☐	Parallel — Perpendicular =	☐ low ☑ med. ☐ high ☐ none; ext. angle 5	☐ none ☐ negative ☐ positive	☐ ...blue... ☐ ☐ ..yellow.. ☐ ☐ .magneta. ☐ ☐ ...gold... ☐
3T	☑ 1.550 ☐ 1.605 ☐ 1.680 ☐	☐ Straight ☐ Wavy ☐ Bundles ☐ Singular ☐ Ribbon ☐	Parallel — Perpendicular =	☐ low ☐ med. ☐ high ☐ none; ext. angle	☐ none ☐ negative ☐ positive	☐ ...blue... ☐ ☐ ..yellow.. ☐ ☐ .magneta. ☐ ☐ ...gold... ☐
	☐ 1.550 ☐ 1.605 ☐ 1.680 ☐	☐ Straight ☐ Wavy ☐ Bundles ☐ Singular ☐ Ribbon ☐	Parallel — Perpendicular =	☐ low ☐ med. ☐ high ☐ none; ext. angle	☐ none ☐ negative ☐ positive	☐ ...blue... ☐ ☐ ..yellow.. ☐ ☐ .magneta. ☐ ☐ ...gold... ☐
	☐ 1.550 ☐ 1.605 ☐ 1.680 ☐	☐ Straight ☐ Wavy ☐ Bundles ☐ Singular ☐ Ribbon ☐	Parallel — Perpendicular =	☐ low ☐ med. ☐ high ☐ none; ext. angle	☐ none ☐ negative ☐ positive	☐ ...blue... ☐ ☐ ..yellow.. ☐ ☐ .magneta. ☐ ☐ ...gold... ☐
	☐ 1.550 ☐ 1.605 ☐ 1.680 ☐	☐ Straight ☐ Wavy ☐ Bundles ☐ Singular ☐ Ribbon ☐	Parallel — Perpendicular =	☐ low ☐ med. ☐ high ☐ none; ext. angle	☐ none ☐ negative ☐ positive	☐ ...blue... ☐ ☐ ..yellow.. ☐ ☐ .magneta. ☐ ☐ ...gold... ☐
	☐ 1.550 ☐ 1.605 ☐ 1.680 ☐	☐ Straight ☐ Wavy ☐ Bundles ☐ Singular ☐ Ribbon ☐	Parallel — Perpendicular =	☐ low ☐ med. ☐ high ☐ none; ext. angle	☐ none ☐ negative ☐ positive	☐ ...blue... ☐ ☐ ..yellow.. ☐ ☐ .magneta. ☐ ☐ ...gold... ☐
	☐ 1.550 ☐ 1.605 ☐ 1.680 ☐	☐ Straight ☐ Wavy ☐ Bundles ☐ Singular ☐ Ribbon ☐	Parallel — Perpendicular =	☐ low ☐ med. ☐ high ☐ none; ext. angle	☐ none ☐ negative ☐ positive	☐ ...blue... ☐ ☐ ..yellow.. ☐ ☐ .magneta. ☐ ☐ ...gold... ☐

06.002311

SUBJECT TO PROTECTIVE ORDER NO. 2, SEPT. 2008 CONFIDENTIAL, CITY_21MC100_00341631 2

NYC-WTC_000174980

NYC 9/11 Public Portal Document

Bulk Asbestos Worksheet

Report #

Date Received

Date Examined 9/23/01

Analyst Name

Client Sample Number WTC-BT-092201-06

Client Name

Lab Sample Number

Job Site:

Sample Location:

Sample Color: off white

Gross Description:

Gross Description	yes	no
homogeneous	☑	☐
friable	☑	☐
fibrous	☐	☑
cementitious	☐	☑

Total Asbestos Present 7-15 %

1 chrysotile 7-15 %
2 amosite ____ %
3 crocidolite ____ %
4 ____ ____ %

Total Non-Asbestos Fibrous Material Present 55-60 %

5 cellulose 25-30 %
6 fibrous glass 25-30 %
7 other fibers ____ %
8 ____ ____ %

Total Non-Asbestos Non-Fibrous Material 30-35 %

9 unspecified binding materials ____ %

Mount/ Finding	Polarized Bright Light: n oil	Morphology	Refractive Index	Crossed Polars: Bire.	Crossed Polars: Sign of Elongation	Disp. Staining: Colors
3/7	☑ 1.550 ☐ 1.605 ☐ 1.680 ☐	☐ Straight ☑ Wavy ☐ Bundles ☐ Singular ☐ Ribbon ☐	Parallel = Perpendicular >	☐ low ☐ med. ☐ high ☐ none	☐ none ☐ negative ☑ positive	☐ ...blue... ☐ ..yellow.. ☐ .magneta. ☐ ...gold... ☐ ____ ☐ ____
				ext. angle 0		
3/3	☑ 1.550 ☐ 1.605 ☐ 1.680 ☐	☐ Straight ☑ Wavy ☐ Bundles ☐ Singular ☑ Ribbon ☐	Parallel = Perpendicular <	☐ low ☐ med. ☐ high ☐ none	☐ none ☐ negative ☑ positive	☐ ...blue... ☐ ..yellow.. ☐ .magneta. ☐ ...gold... ☐ ____ ☐ ____
				ext. angle		
8	☑ 1.550 ☐ 1.605 ☐ 1.680 ☐	☐ Straight ☑ Wavy ☐ Bundles ☐ Singular ☐ Ribbon ☐	Parallel = Perpendicular <	☐ low ☐ med. ☐ high ☐ none	☐ none ☐ negative ☑ positive	☐ ...blue... ☐ ..yellow.. ☐ .magneta. ☐ ...gold... ☐ ____ ☐ ____
				ext. angle		
	☐ 1.550 ☐ 1.605 ☐ 1.680 ☐	☐ Straight ☐ Wavy ☐ Bundles ☐ Singular ☐ Ribbon ☐	Parallel Perpendicular	☐ low ☐ med. ☐ high ☐ none	☐ none ☐ negative ☐ positive	☐ ...blue... ☐ ..yellow.. ☐ .magneta. ☐ ...gold... ☐ ____ ☐ ____
				ext. angle		
	☐ 1.550 ☐ 1.605 ☐ 1.680 ☐	☐ Straight ☐ Wavy ☐ Bundles ☐ Singular ☐ Ribbon ☐	Parallel Perpendicular	☐ low ☐ med. ☐ high ☐ none	☐ none ☐ negative ☐ positive	☐ ...blue... ☐ ..yellow.. ☐ .magneta. ☐ ...gold... ☐ ____ ☐ ____
				ext. angle		
	☐ 1.550 ☐ 1.605 ☐ 1.680 ☐	☐ Straight ☐ Wavy ☐ Bundles ☐ Singular ☐ Ribbon ☐	Parallel Perpendicular	☐ low ☐ med. ☐ high ☐ none	☐ none ☐ negative ☐ positive	☐ ...blue... ☐ ..yellow.. ☐ .magneta. ☐ ...gold... ☐ ____ ☐ ____
				ext. angle		
	☐ 1.550 ☐ 1.605 ☐ 1.680 ☐	☐ Straight ☐ Wavy ☐ Bundles ☐ Singular ☐ Ribbon ☐	Parallel Perpendicular	☐ low ☐ med. ☐ high ☐ none	☐ none ☐ negative ☐ positive	☐ ...blue... ☐ ..yellow.. ☐ .magneta. ☐ ...gold... ☐ ____ ☐ ____
				ext. angle		
	☐ 1.550 ☐ 1.605 ☐ 1.680 ☐	☐ Straight ☐ Wavy ☐ Bundles ☐ Singular ☐ Ribbon ☐	Parallel Perpendicular	☐ low ☐ med. ☐ high ☐ none	☐ none ☐ negative ☐ positive	☐ ...blue... ☐ ..yellow.. ☐ .magneta. ☐ ...gold... ☐ ____ ☐ ____
				ext. angle		

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CONFIDENTIAL, SUBJECT TO PROTECTIVE ORDER NO. 2, SEPT. 2008

CITY_21MC100_00341631 3

NYC-WTC_000174981

NYC 9/11 Public Portal Document

Bulk Asbestos Worksheet

Report #

Analyst Name

Date Received

Date Examined 9/23/01

Client Name

Client Sample Number WTC-BT-09201-7

Lab Sample Number

Job Site:

Sample Location:

Sample Color: off white

Gross Description:

Gross Description	yes	no
homogeneous	☒	☐
friable	☒	☐
fibrous	☒	☐
cementitious	☐	☒

Total Asbestos Present 5–10 %

1 chrysotile 5–10 %

2 amosite ____ %

3 crocidolite ____ %

4 ____ ____ %

Total Non-Asbestos Fibrous Material Present 45–50 %

5 cellulose 20–25 ~~25–30~~ %

6 fibrous glass 20–25 %

7 other fibers ____ %

8 ____ ____ %

Total Non-Asbestos Non-Fibrous Material 35–40 %

9 unspecified binding materials ____ %

Mount/ Finding	Polarized Bright Light: n oil	Morphology	Refractive Index	Crossed Polars: Biref.	Sign of Elongation	Disp. Staining: Colors
3	☐ 1.550 ☐ 1.605 ☐ 1.680 ☐	☐ Straight ☒ Wavy ☐ Bundles ☐ Singular ☐ Ribbon ☐	Parallel = Perpendicular –	☐ low ☐ med. ☐ high ☐ none ext. angle 0	☐ none ☐ negative ☐ positive	☐ ...blue... ☐ ☐ ..yellow.. ☐ ☐ .magneta. ☐ ☐ ...gold... ☐ ☐ ____ ☐ ☐ ____ ☐
2	☐ 1.550 ☐ 1.605 ☐ 1.680 ☐	☐ Straight ☐ Wavy ☐ Bundles ☐ Singular ☐ Ribbon ☐	Parallel = Perpendicular /	☐ low ☐ med. ☐ high ☐ none ext. angle /	☐ none ☐ negative ☐ positive	☐ ...blue... ☐ ☐ ..yellow.. ☐ ☐ .magneta. ☐ ☐ ...gold... ☐ ☐ ____ ☐ ☐ ____ ☐
1	☐ 1.550 ☐ 1.605 ☐ 1.680 ☐	☐ Straight ☐ Wavy ☐ Bundles ☐ Singular ☐ Ribbon ☐	Parallel = Perpendicular /	☐ low ☐ med. ☐ high ☐ none ext. angle	☐ none ☐ negative ☐ positive	☐ ...blue... ☐ ☐ ..yellow.. ☐ ☐ .magneta. ☐ ☐ ...gold... ☐ ☐ ____ ☐ ☐ ____ ☐
	☐ 1.550 ☐ 1.605 ☐ 1.680 ☐	☐ Straight ☐ Wavy ☐ Bundles ☐ Singular ☐ Ribbon ☐	Parallel Perpendicular	☐ low ☐ med. ☐ high ☐ none ext. angle	☐ none ☐ negative ☐ positive	☐ ...blue... ☐ ☐ ..yellow.. ☐ ☐ .magneta. ☐ ☐ ...gold... ☐ ☐ ____ ☐ ☐ ____ ☐
	☐ 1.550 ☐ 1.605 ☐ 1.680 ☐	☐ Straight ☐ Wavy ☐ Bundles ☐ Singular ☐ Ribbon ☐	Parallel Perpendicular	☐ low ☐ med. ☐ high ☐ none ext. angle	☐ none ☐ negative ☐ positive	☐ ...blue... ☐ ☐ ..yellow.. ☐ ☐ .magneta. ☐ ☐ ...gold... ☐ ☐ ____ ☐ ☐ ____ ☐
	☐ 1.550 ☐ 1.605 ☐ 1.680 ☐	☐ Straight ☐ Wavy ☐ Bundles ☐ Singular ☐ Ribbon ☐	Parallel Perpendicular	☐ low ☐ med. ☐ high ☐ none ext. angle	☐ none ☐ negative ☐ positive	☐ ...blue... ☐ ☐ ..yellow.. ☐ ☐ .magneta. ☐ ☐ ...gold... ☐ ☐ ____ ☐ ☐ ____ ☐
	☐ 1.550 ☐ 1.605 ☐ 1.680 ☐	☐ Straight ☐ Wavy ☐ Bundles ☐ Singular ☐ Ribbon ☐	Parallel Perpendicular	☐ low ☐ med. ☐ high ☐ none ext. angle	☐ none ☐ negative ☐ positive	☐ ...blue... ☐ ☐ ..yellow.. ☐ ☐ .magneta. ☐ ☐ ...gold... ☐ ☐ ____ ☐ ☐ ____ ☐

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SUBJECT TO PROTECTIVE ORDER NO. 2, SEPT. 2008 CONFIDENTIAL, CITY_21MC100_00341631 4

NYC-WTC_000174982

NYC 9/11 Public Portal Document

Bulk Asbestos Worksheet

Report #

Analyst Name

Date Received

Date Examined 9/23/01

Client Name

Client Sample Number WTC-B7-092201-08

Lab Sample Number

Job Site:

Sample Location:

Sample Color: off white

Gross Description:

Gross Description	yes	no
homogeneous	☑	☐
friable	☑	☐
fibrous	☐	☑
cementitious	☐	☑

Total Asbestos Present <1 %

1 chrysotile ____ %

2 amosite ____ %

3 crocidolite ____ %

4 ____ ____ %

Total Non-Asbestos Fibrous Material Present 17-60 %

5 cellulose 2-30 %

6 fibrous glass 2-30 %

7 other fibers Trace %

8 ____ ____ %

Total Non-Asbestos Non-Fibrous Material 37-40 %

9 unspecified binding materials ____ %

Mount/ Finding	Polarized Bright Light: n oil	Morphology	Refractive Index	Crossed Polars: Biref.	Sign of Elongation	Disp. Staining: Colors
3	☑ 1.550 ☐ 1.605 ☐ 1.680 ☐	☐ Straight ☐ Wavy ☐ Bundles ☐ Singular ☐ Ribbon ☐	Parallel = Perpendicular <	☐ low ☑ med. ☐ high ☐ none	☐ none ☐ negative ☐ positive	☐ ...blue... ☐ ☐ ..yellow.. ☐ ☐ .magneta. ☐ ☐ ...gold... ☐ ☐ ____ ☐
				ext. angle <		
3b	☐ 1.550 ☐ 1.605 ☐ 1.680 ☐	☐ Straight ☐ Wavy ☐ Bundles ☐ Singular ☐ Ribbon ☐	Parallel > Perpendicular <	☐ low ☐ med. ☐ high ☐ none	☑ none ☐ negative ☐ positive	☐ ...blue... ☐ ☐ ..yellow.. ☐ ☐ .magneta. ☐ ☐ ...gold... ☐ ☐ ____ ☐
				ext. angle ____		
	☐ 1.550 ☐ 1.605 ☐ 1.680 ☐	☐ Straight ☐ Wavy ☐ Bundles ☐ Singular ☐ Ribbon ☐	Parallel Perpendicular	☐ low ☐ med. ☐ high ☐ none	☐ none ☐ negative ☐ positive	☐ ...blue... ☐ ☐ ..yellow.. ☐ ☐ .magneta. ☐ ☐ ...gold... ☐ ☐ ____ ☐
				ext. angle ____		
	☐ 1.550 ☐ 1.605 ☐ 1.680 ☐	☐ Straight ☐ Wavy ☐ Bundles ☐ Singular ☐ Ribbon ☐	Parallel Perpendicular	☐ low ☐ med. ☐ high ☐ none	☐ none ☐ negative ☐ positive	☐ ...blue... ☐ ☐ ..yellow.. ☐ ☐ .magneta. ☐ ☐ ...gold... ☐ ☐ ____ ☐
				ext. angle ____		
	☐ 1.550 ☐ 1.605 ☐ 1.680 ☐	☐ Straight ☐ Wavy ☐ Bundles ☐ Singular ☐ Ribbon ☐	Parallel Perpendicular	☐ low ☐ med. ☐ high ☐ none	☐ none ☐ negative ☐ positive	☐ ...blue... ☐ ☐ ..yellow.. ☐ ☐ .magneta. ☐ ☐ ...gold... ☐ ☐ ____ ☐
				ext. angle ____		
	☐ 1.550 ☐ 1.605 ☐ 1.680 ☐	☐ Straight ☐ Wavy ☐ Bundles ☐ Singular ☐ Ribbon ☐	Parallel Perpendicular	☐ low ☐ med. ☐ high ☐ none	☐ none ☐ negative ☐ positive	☐ ...blue... ☐ ☐ ..yellow.. ☐ ☐ .magneta. ☐ ☐ ...gold... ☐ ☐ ____ ☐
				ext. angle ____		
	☐ 1.550 ☐ 1.605 ☐ 1.680 ☐	☐ Straight ☐ Wavy ☐ Bundles ☐ Singular ☐ Ribbon ☐	Parallel Perpendicular	☐ low ☐ med. ☐ high ☐ none	☐ none ☐ negative ☐ positive	☐ ...blue... ☐ ☐ ..yellow.. ☐ ☐ .magneta. ☐ ☐ ...gold... ☐ ☐ ____ ☐
				ext. angle		

Refractive Index

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CITY_21MC100_003416315

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NYC-WTC_000174983

NYC 9/11 Public Portal Document

Bulk Asbestos Worksheet

Report #

Date Received

Date Examined 9/23/01

Analyst Name

Client Name

Client Sample Number WTC-B7-092201-09

Lab Sample Number

Job Site:

Sample Location:

Sample Color: White

Gross Description:

Gross Description	yes	no
homogeneous	☒	☐
friable	☐	☒
fibrous	☐	☒
cementitious	☐	☒

Total Asbestos Present 4 %

1 chrysotile Trace %

2 amosite %

3 crocidolite %

4 %

Total Non-Asbestos Fibrous Material Present 55-60 %

5 cellulose 25-30 %

6 fibrous glass 25-30 %

7 other fibers Trace %

8 %

Total Non-Asbestos Non-Fibrous Material 35-40 %

9 unspecified binding materials %

Mount/ Finding	Polarized Bright Light: n oil	Morphology	Refractive Index	Crossed Polars: Birefr.	Sign of Elongation	Disp. Staining: = Colors ⊥
7	☐ 1.550 ☐ 1.605 ☐ 1.680 ☐	☐ Straight ☒ Wavy ☐ Bundles ☐ Singular ☐ Ribbon ☐	Parallel = Perpendicular =	☐ low ☐ med. ☐ high ☐ none; ext. angle 5	☐ none ☐ negative ☒ positive	☐ ...blue... ☒ ..yellow.. ☐ .magneta. ☐ ...gold... ☐ ☐ ☐
3	☐ 1.550 ☐ 1.605 ☐ 1.680 ☐	☐ Straight ☐ Wavy ☐ Bundles ☐ Singular ☒ Ribbon ☐	Parallel = Perpendicular =	☐ low ☐ med. ☐ high ☐ none; ext. angle 2	☐ none ☐ negative ☒ positive	☐ ...blue... ☒ ..yellow.. ☐ .magneta. ☐ ...gold... ☐ ☐ ☐
	☐ 1.550 ☐ 1.605 ☐ 1.680 ☐	☐ Straight ☐ Wavy ☐ Bundles ☐ Singular ☐ Ribbon ☐	Parallel Perpendicular	☐ low ☐ med. ☐ high ☐ none; ext. angle	☐ none ☐ negative ☐ positive	☐ ...blue... ☐ ..yellow.. ☐ .magneta. ☐ ...gold... ☐ ☐ ☐
	☐ 1.550 ☐ 1.605 ☐ 1.680 ☐	☐ Straight ☐ Wavy ☐ Bundles ☐ Singular ☐ Ribbon ☐	Parallel Perpendicular	☐ low ☐ med. ☐ high ☐ none; ext. angle	☐ none ☐ negative ☐ positive	☐ ...blue... ☐ ..yellow.. ☐ .magneta. ☐ ...gold... ☐ ☐ ☐
	☐ 1.550 ☐ 1.605 ☐ 1.680 ☐	☐ Straight ☐ Wavy ☐ Bundles ☐ Singular ☐ Ribbon ☐	Parallel Perpendicular	☐ low ☐ med. ☐ high ☐ none; ext. angle	☐ none ☐ negative ☐ positive	☐ ...blue... ☐ ..yellow.. ☐ .magneta. ☐ ...gold... ☐ ☐ ☐
	☐ 1.550 ☐ 1.605 ☐ 1.680 ☐	☐ Straight ☐ Wavy ☐ Bundles ☐ Singular ☐ Ribbon ☐	Parallel Perpendicular	☐ low ☐ med. ☐ high ☐ none; ext. angle	☐ none ☐ negative ☐ positive	☐ ...blue... ☐ ..yellow.. ☐ .magneta. ☐ ...gold... ☐ ☐ ☐
	☐ 1.550 ☐ 1.605 ☐ 1.680 ☐	☐ Straight ☐ Wavy ☐ Bundles ☐ Singular ☐ Ribbon ☐	Parallel Perpendicular	☐ low ☐ med. ☐ high ☐ none; ext. angle	☐ none ☐ negative ☐ positive	☐ ...blue... ☐ ..yellow.. ☐ .magneta. ☐ ...gold... ☐ ☐ ☐
	☐ 1.550 ☐ 1.605 ☐ 1.680 ☐	☐ Straight ☐ Wavy ☐ Bundles ☐ Singular ☐ Ribbon ☐	Parallel Perpendicular	☐ low ☐ med. ☐ high ☐ none; ext. angle	☐ none ☐ negative ☐ positive	☐ ...blue... ☐ ..yellow.. ☐ .magneta. ☐ ...gold... ☐ ☐ ☐

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SUBJECT TO PROTECTIVE ORDER NO. 2, SEPT. 2008

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CITY_21MC100_003416316

NYC-WTC_000174984

NYC 9/11 Public Portal Document

Bulk Asbestos Worksheet

Report #

Date Received

Date Examined 9/23/01

Analyst Name

Client Name

Client Sample Number WTC-BT-092201-10

Lab Sample Number

Job Site:

Sample Location:

Sample Color: Hf white

Gross Description:

Gross Description	yes	no
homogeneous	☑	☐
friable	☑	☐
fibrous	☑	☐
cementitious	☐	☑

Total Asbestos Present 2-5 %

1 chrysotile 2-5 %

2 amosite ____ %

3 crocidolite ____ %

4 ____ ____ %

Total Non-Asbestos Fibrous Material Present 45-50 %

5 cellulose 20-25 %

6 fibrous glass 20-25 %

7 other fibers ____ %

8 ____ ____ %

Total Non-Asbestos Non-Fibrous Material 40-45 %

9 unspecified binding materials ____ %

Mount/ Finding	Polarized Bright Light: n oil	Morphology	Refractive Index	Crossed Polars: Biref.	Sign of Elongation	Disp. Staining: Colors
3	☐ 1.550 ☐ 1.605 ☐ 1.680 ☐	☐ Straight ☑ Wavy ☐ Bundles ☐ Singular ☐ Ribbon ☐	Parallel / Perpendicular =	☐ low ☐ med. ☐ high ☐ none; ext. angle 2	☐ none ☐ negative ☑ positive	☐ ..blue... ☐ ..yellow.. ☐ .magneta. ☐ ...gold... ☐ ____
2	☐ 1.550 ☐ 1.605 ☐ 1.680 ☐	☐ Straight ☐ Wavy ☐ Bundles ☐ Singular ☐ Ribbon ☐	Parallel / Perpendicular	☐ low ☑ med. ☐ high ☐ none; ext. angle 2	☐ none ☐ negative ☑ positive	☐ ..blue... ☐ ..yellow.. ☐ .magneta. ☐ ...gold... ☐ ____
3	☐ 1.550 ☐ 1.605 ☐ 1.680 ☐	☐ Straight ☐ Wavy ☐ Bundles ☐ Singular ☐ Ribbon ☐	Parallel / Perpendicular	☐ low ☐ med. ☐ high ☑ none; ext. angle ____	☐ none ☐ negative ☐ positive	☐ ..blue... ☐ ..yellow.. ☐ .magneta. ☐ ...gold... ☐ ____
	☐ 1.550 ☐ 1.605 ☐ 1.680 ☐	☐ Straight ☐ Wavy ☐ Bundles ☐ Singular ☐ Ribbon ☐	Parallel / Perpendicular	☐ low ☐ med. ☐ high ☐ none; ext. angle ____	☐ none ☐ negative ☐ positive	☐ ...blue... ☐ ..yellow.. ☐ .magneta. ☐ ...gold... ☐ ____
	☐ 1.550 ☐ 1.605 ☐ 1.680 ☐	☐ Straight ☐ Wavy ☐ Bundles ☐ Singular ☐ Ribbon ☐	Parallel / Perpendicular	☐ low ☐ med. ☐ high ☐ none; ext. angle ____	☐ none ☐ negative ☐ positive	☐ ...blue... ☐ ..yellow.. ☐ .magneta. ☐ ...gold... ☐ ____
	☐ 1.550 ☐ 1.605 ☐ 1.680 ☐	☐ Straight ☐ Wavy ☐ Bundles ☐ Singular ☐ Ribbon ☐	Parallel / Perpendicular	☐ low ☐ med. ☐ high ☐ none; ext. angle ____	☐ none ☐ negative ☐ positive	☐ ...blue... ☐ ..yellow.. ☐ .magneta. ☐ ...gold... ☐ ____
	☐ 1.550 ☐ 1.605 ☐ 1.680 ☐	☐ Straight ☐ Wavy ☐ Bundles ☐ Singular ☐ Ribbon ☐	Parallel / Perpendicular	☐ low ☐ med. ☐ high ☐ none; ext. angle ____	☐ none ☐ negative ☐ positive	☐ ...blue... ☐ ..yellow.. ☐ .magneta. ☐ ...gold... ☐ ____

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CITY_21MC100_003416317

NYC-WTC_000174985

NYC 9/11 Public Portal Document

Bulk Asbestos Worksheet

Report #

Date Received

Date Examined 9/23/01

Analyst Name

Client Name

Client Sample Number WTC-BT-09220/-11

Lab Sample Number

Job Site:

Sample Location:

Sample Color: off white

Gross Description:

Gross Description	yes	no
homogeneous	☒	☐
friable	☒	☐
fibrous	☐	☒
cementitious	☐	☒

Total Asbestos Present 7-5 %

1 chrysotile 7-5 %
2 amosite ____ %
3 crocidolite ____ %
4 ____ ____ %

Total Non-Asbestos Fibrous Material Present 55-60 %

5 cellulose 25-30 %
6 fibrous glass 25-30 %
7 other fibers ____ %
8 ____ ____ %

Total Non-Asbestos Non-Fibrous Material 30-35 %

9 unspecified binding materials ____ %

Mount/ Finding	Polarized Bright Light: n oil	Morphology	Refractive Index	Crossed Polars: Biref.	Sign of Elongation	Disp. Staining: Color
3/1	☒ 1.550 ☐ 1.605 ☐ 1.680 ☐	☐ Straight ☒ Wavy ☐ Bundles ☐ Singular ☐ Ribbon ☐	Parallel = Perpendicular =	☐ low ☐ med. ☐ high ☐ none	☐ none ☐ negative ☒ positive	☐ ...blue... ☐ ☒ ..yellow.. ☒ ☐ .magneta. ☐ ☐ ...gold... ☐ ☐ ____ ☐
				ext. angle 0°		
3/2	☒ 1.550 ☐ 1.605 ☐ 1.680 ☐	☐ Straight ☐ Wavy ☐ Bundles ☐ Singular ☐ Ribbon ☐	Parallel = Perpendicular =	☐ low ☐ med. ☐ high ☐ none	☐ none ☐ negative ☒ positive	☐ ...blue... ☐ ☐ ..yellow.. ☐ ☐ .magneta. ☐ ☐ ...gold... ☐ ☐ ____ ☐
				ext. angle 5		
3	☒ 1.550 ☐ 1.605 ☐ 1.680 ☐	☒ Straight ☒ Wavy ☐ Bundles ☐ Singular ☐ Ribbon ☐	Parallel Perpendicular	☐ low ☐ med. ☐ high ☐ none	☐ none ☐ negative ☐ positive	☐ ...blue... ☐ ☒ ..yellow.. ☐ ☐ .magneta. ☐ ☐ ...gold... ☐ ☐ ____ ☐
				ext. angle		
	☐ 1.550 ☐ 1.605 ☐ 1.680 ☐	☐ Straight ☐ Wavy ☐ Bundles ☐ Singular ☐ Ribbon ☐	Parallel Perpendicular	☐ low ☐ med. ☐ high ☐ none	☐ none ☐ negative ☐ positive	☐ ...blue... ☐ ☐ ..yellow.. ☐ ☐ .magneta. ☐ ☐ ...gold... ☐ ☐ ____ ☐
				ext. angle		
	☐ 1.550 ☐ 1.605 ☐ 1.680 ☐	☐ Straight ☐ Wavy ☐ Bundles ☐ Singular ☐ Ribbon ☐	Parallel Perpendicular	☐ low ☐ med. ☐ high ☐ none	☐ none ☐ negative ☐ positive	☐ ...blue... ☐ ☐ ..yellow.. ☐ ☐ .magneta. ☐ ☐ ...gold... ☐ ☐ ____ ☐
				ext. angle		
	☐ 1.550 ☐ 1.605 ☐ 1.680 ☐	☐ Straight ☐ Wavy ☐ Bundles ☐ Singular ☐ Ribbon ☐	Parallel Perpendicular	☐ low ☐ med. ☐ high ☐ none	☐ none ☐ negative ☐ positive	☐ ...blue... ☐ ☐ ..yellow.. ☐ ☐ .magneta. ☐ ☐ ...gold... ☐ ☐ ____ ☐
				ext. angle		
	☐ 1.550 ☐ 1.605 ☐ 1.680 ☐	☐ Straight ☐ Wavy ☐ Bundles ☐ Singular ☐ Ribbon ☐	Parallel Perpendicular	☐ low ☐ med. ☐ high ☐ none	☐ none ☐ negative ☐ positive	☐ ...blue... ☐ ☐ ..yellow.. ☐ ☐ .magneta. ☐ ☐ ...gold... ☐ ☐ ____ ☐
				ext. angle		

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