- Inlets are generally located immediately upgrade of a bridge. If on the downgrade of a bridge there is no extension or curbing, an inlet may be needed to prevent erosion.
- On vertical sags, flanker basins shall be located 0.06 m (0.2 ft) higher than the low point catch basin.
- Inlets should not be located in driveways or within 1.5 meters (5 ft) from driveway returns to preclude loss of traction.
- Bridge inlets may not be able to be located to meet the hydraulic requirements. Bridge inlets should be located with the approval of the bridge engineer. Keep in mind that an increase in width or spread may be justified for a short length of roadway to avoid the use of bridge inlets.
- At sag vertical curves of expressways where curbing is not used, a type "C-L" catch basin shall be placed at the outer edge of the shoulder and within the shoulder. This inlet will collect rain and snow melt which cannot reach the actual sag location due to the dam created by snow plowing operations. **No interception should be computed for this inlet and a 300 mm (12 in) pipe is to be used for an outlet**.
- Drainage inlets are sized and located to limit the spread on traffic lanes to tolerable widths as is indicated in Table 11-2. Grate inlets should be located outside the through-traffic lanes to minimize the shifting of vehicles attempting to avoid them.
- Where there is a danger of damage to adjacent property by flow overtopping the curb in a sag, flanking inlets should be used and the location checked to insure that the curb is not overtopped due to insufficient inlet capacity.
- Inlets should be located so that concentrated flow and sheet flow will not cross traffic lanes. Where pavement surfaces are warped, as at cross streets or ramps, surface water should be intercepted just before the change in cross slope.
- Inlets should be located just upgrade of pedestrian crossings if required near the crossing.
- Special care should be given to inlet placement to insure adequate capacity at bridge approaches and at sag vertical curves where ponding deeper than the curb height could occur.
- The maximum depth of flow in a gutter or shoulder shall be limited to 25 mm (1 in) below the top of curb, except at sag locations.
- Where driveways descend from the highway, the maximum depth of flow will be limited to 0.10 meters (0.3 ft).
- At intersections where the grades of both roads are positive, there usually is a vertical sag created at the curb line. To determine the exact location of these inlets and to determine their capacity, it is necessary to develop a profile of the gutter and a contour of the impacted quadrant of the intersection.
- Positive slopes, channelization islands, gore areas, etc. can cause snow melt from the roadside to freeze, creating ice conditions which require application of abrasives and chemicals. These designs can be avoided in most instances when thought is given to winter highway operations. A few measures which can be used are:

  1. Insure that slopes either flow to gutters or that they are negative from the roadway.
  2. Islands which do not flow to gutters should be depressed and drained with an inlet.
  3. Careful inlet designs at the optimum location to control flows in gore areas.

- At roadway transitions from cut to fill at the downhill terminus of a negative shelf should be drained with an inlet or properly designed channel to preclude erosion.

Step 5 Solve for the depth at point C, d_c, and compute the actual spread from edge of gutter section T_s

$d_c = d_B - BC\ (S_{X2})$
$= (0.067) - (0.60)(0.04)$
$= 0.043$ m (0.14 ft)

Therefore, $T_s = d_c / S_{X3} = (0.043)/(0.015) = 2.87$m (9.4 ft)

Step 6 Find the actual total spread (T).
$T = T_s + AB + BC$
$T = 2.87\text{m} + 0.27\text{m} + 0.6\text{m}$
$T = 3.74$ m (12.3 ft)

CONDITION 2: Given Spread (T), Find Flow (Q)

Step 1 Determine input parameters such as longitudinal slope (S), Cross slope ($S_{x)} = S_{x1}S_{x2}/(S_{x1} + S_{x2}$), Manning's n and allowable spread. (Example: n = 0.016, S = 0.015, $S_{x1} = 0.06$, $S_{x2} = 0.04$, T = 1.83 m)

Step 2 Calculate S_x
$S_x = S_{x1}S_{x2}/(S_{x1} + S_{x2}) = (0.06)(0.04)/(0.06 + 0.04) = 0.024$

Step 3 Using Figure 11-1, Solve for Q
For T = 1.83 m, Q = 0.028 m^3/s
The equation shown on Figure 11-1 can also be used.

11.9.6 Grate Inlets in A Sag

A type "C-L" catch basin in a sag operates as a weir up to a certain depth dependent on the bar configuration and size of the grate (Type A or B) and as an orifice at greater depths. For these types of grates, weir operation continues to a depth of about 0.12m (0.4 ft.) above the top of grate and when depth of water exceeds about 0.43m (1.4 ft.), the grate begins to operate as an orifice. Between depths of about 0.12m (0.4 ft.) and about 0.43m (1.4 ft.), a transition from weir to orifice flow occurs. For a type "C" catch basin the side against the curb is not included in computing the perimeter (P).

The capacity of grate inlets operating as a weir is:

$$Q_i = \frac{CPd^{1.5}}{C_{FS}} \qquad \textbf{(11.7)}$$

solving for d:

$$d = \left(\frac{Q_i C_{FS}}{CP}\right)^{2/3}$$

where:

Q_1 = rate of discharge into grate opening, m^3/s (cfs)
P = perimeter of grate excluding bar widths and the side against the curb, m (ft)
C = 1.66 (3.0)
d = depth of water above grate, m (ft)
C_{FS} = factor of safety for clogging

The capacity of grate inlets operating as an orifice is:

$$Q_i = \frac{CA(2gd)^{0.5}}{C_{FS}} \qquad \textbf{(11.8)}$$

solving for d:

$$d = \left(\frac{Q_i C_{FS}}{CA} \right)^2 / 2g$$

where:

Q_1 = rate of discharge into grate opening, m^3/s (cfs)
C = 0.67 orifice coefficient
A = clear opening area of the grate, m^2 (ft^2)
g = 9.81 m/s^2 (32.2 ft/s^2)
d = depth of water above grate, m (ft)
C_{FS} = factor of safety for clogging
= 1.0 – Type "C" catch basin with 0% clogging
= 2.0 – Type "C-L" catch basin with 50% clogging – high clogging potential
= $1.0 < C_{FS} < 2.0$ – Type "C-L" catch basin with 0%–50% clogging – low clogging potential. Typically for expressway medians, swales, and ditches where minimal tree growth is expected, a cfs =1.25 for 20% clogging is appropriate.

Between depths over the grate of about 0.12m (0.4 ft.) and about 0.43m (1.4 ft.) the operation of the grate inlet is indefinite due to vortices and other disturbances. The capacity of the grate is somewhere between that given by equations 11.7 and 11.8. The larger depth is used for design purposes.

Because of the vortices and the tendency of trash to collect on the grate, a factor of safety for clogging has been added to equations 11.7 and 11.8. For Type "C-L" catch basins with a high potential for clogging a factor of safety of 2 should be used. Where danger of clogging is slight, a factor of safety less than two might be used. When a type "C" catch basin is used, the curb opening provides the safety factor from clogging therefore the factor of safety is one (1.0).

DOT GRATE AREAS AND PERIMETERS ARE AS FOLLOWS:

Catch Basin with Type A Grate

Total Steel Frame Length	3'- 1 3/4"	or 0.9588 m	(3.1458 ft)
2 Angles 2 1/2" Wide	2 (2 1/2")	or 0.1270 m	(0.4167 ft)
8 Bars 5/8" Wide	8 (5/8")	or 0.1270 m	(0.4167 ft)
Length Clear Opening		or **0.7048 m**	**(2.3124** ft)
Steel Frame Width	1'- 7 5/8"	or 0.4985 m	(1.6354 ft)
9 Bars 3/8" Wide	9 (3/8")	or 0.0857 m	(0.2813 ft)
Width Clear Opening		or **0.4127 m**	**(1.3541** ft)

Perimeter (P)=	2(1.3541') + 2.3124' =	1.53 m	(5.02 ft)
Area (A)=	1.3541' x 2.3124' =	0.29 m^2	(3.13 ft^2)

Type "C" Catch Basin with Type A Double Grate Type II

Perimeter (P)=	2(1.3541') + (2)2.3124' =	2.24 m	(7.33 ft)
Area (A)=	1.3541' x 2.3124' x 2 =	0.58 m^2	(6.26 ft^2)

Type "C-L" Catch Basin with Type A Grate

Perimeter (P)=	2(1.3541') + (2)2.3124' =	2.24 m	(7.33 ft)
Area (A)=	1.3541' x 2.3124' =	0.29 m^2	(3.13 ft^2)

Type "C-L" Catch Basin with Type A Double Grate Type II

Perimeter (P)=	2(1.3541') + (4)2.3124' =	3.64 m	(11.96 ft)
Area (A)=	1.3541' x 2.3124' x 2 =	0.58 m^2	(6.26 ft^2)

It should be noted that these perimeters and areas are for Type A grate. These may also be used with Type B grates as the difference is insignificant.

11.9.7 Slotted Inlets On Grade

Wide experience with the debris handling capabilities of slotted inlets is not available. Deposition in the pipe is the problem most commonly encountered, and the inlet is accessible for cleaning only with a high pressure water jet. Slotted inlets are effective pavement drainage inlets which have a variety of applications. They can be used on curbed or uncurbed sections and offer little interference to traffic operations.

Slotted Inlets On Grade

Flow interception by slotted inlets is side weir and the flow is subjected to lateral acceleration due

APPENDIX E

BesTech (and ENCO) Sequence of Work

BESTECH INC. of Connecticut

Site Location: 510, 510A Grand Avenue, New Haven, CT

SEQUENCE OF WORK:

Bestech's crew first did selective interior demo to access the areas to be abated inside of station B. Then we set up containments and performed the abatement work on the interior of the building, basement, first floor, and mezzanine. After the interior abatement was completed as far as we could with the electrical panels still energized, we picked up the roofing debris around station B. Then we removed the windows and the lower roofing material near the driveway by the site trailers. After the Electrical panels were deenergized, ACV removed them from the wall and Bestech personnel wrapped them and placed them in the container for disposal.

While working on the station B windows, we had another crew working on parcel B, taking care of the interior abatement of the two small buildings and removing the windows. That crew then removed the ACM in the tank farm areas.

Bestech's crew then picked up roofing debris around station B again and cleaned the debris off of the boat.

The next abatement is going to be the old guard shack. After the shack is abated, we still have the Galbestos piles to pick up on parcel A, and picking up the ACM from the demolition of station B.

ENCO ENVIRONMENTAL CONTRACTING & DEMOLITION
70 W LIBERTY STREET
WATERBURY, CT 06706
203-754-5959

SEQUENCE OF WORK
ENGLISH STATION
510 A GRAND AVE
NEW HAVEN, CT 06511
GC: ACV ENVIRO
118 BURR COURT
BRIDGEPORT, CT 06605

Project Manager:
Richard Shultz Cell #203-627-5341
Yuriy Stoylar Cell# 774-400-5020

Office # 203-754-5959

ENCO

Environmental Contracting & Demolition, LLC
70 West Liberty Street
Waterbury, CT 06706
P: (203) 754-5959 F: (203) 757-5979

Site Specific Asbestos Disposal Plan for English Station B
Site Locations: 510A Grand Avenue New Haven, CT

Sequence of Work:

The present plan is to start in basement area and address the far corner utilizing the approved AWP for this area. Proper lighting will be in place to avoid and trip hazards. A 3-chamber decontamination unit will be installed adjacent to the containment. HEPA air machines will be set-up for adequate negative pressure and exhausted outside the building. This material will be adequately wetted and placed in pre-printed disposal bags, and then double bagged as asbestos waste material in pre-printed disposal bags. Bags will be labeled and placed in waste container on site. Area to be final clean and visual inspection will occur. Once visual inspection passes, the entire contained work area is to be sprayed with encapsulate, let dry and then a re-occupancy air test is to take place. Once clearance is establish, all poly to be and placed in pre-printed disposal bags, and then double bagged as asbestos waste material in pre-printed disposal bags. Bags will be labeled and placed in waste container on site.

The main run of pipe will be done in a full containment. A 3-chamber decontamination unit will be set-up at furthest point with adequate HEPA air machines set-up at various points and exhausted outside the building. Proper lighting will be in place to avoid and trip hazards. The asbestos piping has a roofing type felt paper wrapped around the insulation. The bands will be cut and the felt paper cleaned off of any friable asbestos material and bagged up and disposed as Excluded PCB Product waste. The asbestos insulation will be again adequately wetted and removed. The material is to be placed in pre-printed disposal bags, and then double bagged as asbestos waste material in pre-printed disposal bags. Bags will be labeled and placed in waste container on site. Area to be final clean and visual inspection will occur. Once visual inspection passes, the entire contained work area is to be sprayed with encapsulate, let dry and then a re-occupancy air test is to take place. Once clearance is establish, all poly to be and placed in pre-printed disposal bags, and then double bagged as asbestos waste material in pre-printed disposal bags. Bags will be labeled and placed in waste container on site.

The main level will occur next in the East corner of the building. This area comprises the entry hallway, room on the left, single office and the larger area. This will be set-up as determined by the approved AWP for this area. Proper lighting will be in place to avoid and trip hazards. A 3-chamber decontamination unit will be installed adjacent to the containment. HEPA air machines will be set-up for adequate negative pressure and exhausted outside the building. All loose debris will be adequately wetted and placed in pre-printed disposal bags, and then double bagged as asbestos waste material in pre-printed disposal bags. Bags will be labeled and placed in waste container on site. Removal of the balance of asbestos materials will take place. The asbestos materials will be again adequately wetted and removed. The material is to be placed in pre-printed disposal bags, and then double bagged as asbestos waste material in pre-printed disposal bags. Bags will be labeled and placed in waste container on site. Mastic is to be done with HEPA shrouded equipment. Area to be final clean and visual inspection will occur. Once visual inspection passes, the entire contained work area is to be sprayed with encapsulate, let dry and then a re-occupancy air test is to take place. Once clearance is establish, all poly to be and placed in pre-printed disposal bags, and then double bagged as asbestos waste material in pre-printed disposal bags. Bags will be labeled and placed in waste container on site.

Sequence of Work:

The main level will occur next in the West corner of the building. This area comprises the women's & men's bathroom locker rooms and office area. This will be set-up as determined by the approved AWP for this area. Proper lighting will be in place to avoid and trip hazards. A 3-chamber decontamination unit will be installed adjacent to the containment. HEPA air machines will be set-up for adequate negative pressure and exhausted outside the building. All loose debris will be adequately wetted and placed in pre-printed disposal bags, and then double bagged as asbestos/Exclude PCB Product waste material in pre-printed disposal bags. Bags will be labeled and placed in waste container on site. Removal of the balance of asbestos/Exclude PCB Product materials will take place. The asbestos materials will be again adequately wetted and removed. The material is to be placed in pre-printed disposal bags, and then double bagged as asbestos/Exclude PCB Product asbestos waste material in pre-printed disposal bags. Bags will be labeled and placed in waste container on site. Area to be final clean and visual inspection will occur. Once visual inspection passes, the entire contained work area is to be sprayed with encapsulate, let dry and then a re-occupancy air test is to take place. Once clearance is establish, all poly to be and placed in pre-printed disposal bags, and then double bagged as asbestos waste material in pre-printed disposal bags. Bags will be labeled and placed in waste container on site.

The next area will be to remove the flex duct connector as an Intact Non-Friable removal process. The flex connector adequately wetted, screws removed and entire flex connector is to be placed into a pre-printed disposal bag, and then double bagged as asbestos waste material in pre-printed disposal bags. Bag will be labeled and placed in waste container on site.

There is a small stub of piping inside the wall space on C Side of area. The plan is to use the OSHA approved glove bag method to do this removal. The glove bag will be placed into a pre-printed disposal bag, and then double bagged as asbestos waste material in pre-printed disposal bags. Bag will be labeled and placed in waste container on site.

The next area of concern will be to address at the 1st floor turbine hall the assumed insulation components in circuit boxes. If these materials can be done with Intact Non-Friable work practices then that will be the option. If containment is needed, then that will be the option. The assumed material will be adequately wetted and be placed into a pre-printed disposal bag, and then double bagged as asbestos waste material in pre-printed disposal bags. Bag will be labeled and placed in waste container on site.

There are various pipe gaskets assumed to contain asbestos. A sawzall will be used to cut pipe on either side of gaskets and then will be placed into a pre-printed disposal bag, and then double bagged as asbestos waste material in pre-printed disposal bags. Bag will be labeled and placed in waste container on site.

For loose debris in various areas, which includes TSI & wire wrapping, workers will be in full PPE, then adequately wet the material and placed into a pre-printed disposal bag, and then double bagged as asbestos waste material in pre-printed disposal bags. Bag will be labeled and placed in waste container on site.

The Galbestos roofing materials will be conducted in a restricted area, all waste generated from this process will be and placed in pre-printed disposal bags, and then double bagged as asbestos/Exclude PCB Product waste material in pre-printed disposal bags. Bags will be labeled and placed in waste container on site. A final visual inspection will be needed to ensure all materials have been addressed.

The windows will be done from the exterior of the building. With the exception of AWP areas, critical barrier will be set-up inside window opening. Using lifts and safety harness equipment, windows are to be removed as best as possible in an intact manner. The appropriate disposal will transpire as some windows will be combination asbestos/Exclude PCB Product waste while others are strictly asbestos waste.

The roofing materials and Transite panels which have been deemed unsafe to remove in normal operating procedures will be taken down and disposed during demolition by ACV Enviro. Will we set-up restricted area and act as ground crew in concert with ACV Enviro staff operators.

Respectfully Submitted,
Richard Shultz

Richard Shultz

APPENDIX F

TRC Air Monitoring during ACM Abatement

TRC 21 Griffin Road North Windsor, CT 06095 860-298-9692

Edition: August 2018
Supersedes Previous Edition

AIR SAMPLE ANALYSIS REPORT

Project No.: 263951 Date: 4/25/19 Page 1 of 1

Client: UI

Sampler Print: Tyler MacGillivray Signature: Tyler MacGillivray Date: 4/25/19

Site: ES Staton B

Analyst Print: Tyler MacGillivray AAR ID: 9725 Signature: Tyler MacGillivray Date Analyzed: 4/26/19

Address: 510 Grand Ave New Haven, CT 06513

QC Analyst Print: K Williamson Signature: K Williamson Date Analyzed: 5/10/19

Lab Supervisor Print: K Williamson Signature: K Williamson Date Issued: 5/10/19

Contact/Name: M. Kearney Phone: 860-840-4595 Rotometer No.: L-25 Date of Calibration: 11/9/18 Lab No. 53737

Microscope No. 22002 Received in Lab for Analysis: ☐ QC Only: ☒

Sample Type: PCM ☑ TEM ☐ Other: _____ Analysis Method: NIOSH 7400 ☑ AHERA ☐ Other: _____
Issue 2 8/15/94 A rules

Type of Sample: (1. Background) 2. Prep. 3. Work Area 4. Environmental 5. Personal 6. Clearance

Relative Standard Deviation (Sr)		
Range Fibers/fields	Intra-lab Sr	Inter-lab Sr
<20/100	0.520	0.517
20.5 to 50/100	0.352	0.451
>50/100	0.295	0.387

Sample No.	1	2	3	4	5		
Sampling Location/Comments	West Entrance	Central Basement Stairs	East Entrance	SB	FB		
Type of Sample	1	1	1	1	1		
Pump Number	1	2	3				
Start Time/Stop Time	1130 / 1500	1130 / 1500	1130 / 1500				
Total Time (min)	210	210	210				
Flow Rate	2.7 / 2.7	2.7 / 2.7	2.7 / 2.7				
Total Volume (l)	567	567	567				
FB __ BFB FL __ BFL	5/100	3/100	4/100	0/100	0/100		
Filter Fiber Conc. (fibers/mm²)	6.36	3.82	5.09	–	–		
Airborne Fiber Conc. (fibers/cc) (VF)	ND<0.0045	ND<0.0045	ND<0.0045	–	–		

STANDARDS
<0.01 f/cc – EPA Re-Occupancy Clearance Criteria
0.10 f/cc – OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc – OSHA 30 min Excursion Level
ND< – Non Detected, less than the limit of detection
Limit of Detection – 5.5 fibers/100 fields

Relinquished by: Tyler MacGillivray Date 5/8/19 Time 8:32 PM
Received By: K Williamson Date 5/9/19 Time 0900
Relinquished by: _____ Date _____ Time _____
Received by Laboratory: _____ Date _____ Time _____

TRC Laboratory Asbestos Analytical Certifications:
AZ # AZ0944 CT#PH-0426 HI # L-09-004 LA #05011 MA # AA000052
ME # LA-0075 NJ # CT004 NY # 10980 RI # AAL-007
TX # 300354 VA # 3333000283 VT # AL910359 WV # LT000597
Philadelphia # 461 AIHA IHLAP # 100122 AIHA PAT# 100122

Condition of Samples: Acceptable: Y ✓ N _____
Comments: _____
AIHA Registry Programs Asbestos Analyst Registry
Organization ID: 100122

QC Recount

Sample No.	FB/FL	Analyst/Date	Field/Lab

Results relate only to the samples tested, as received by the laboratory. Verifiability of the laboratory's results is limited to the FB/mm².

TRC
21 Griffin Road North
Windsor, CT 06095
860-298-9692

Edition: August 2018
Supersedes Previous Edition

AIR SAMPLE ANALYSIS REPORT

Project No.: 263951 Date: 4/26/19 Page 2 of 2

Client: UI

Site: English station - station B

Address: 510 Grand Ave
New Haven, CT 06513

Sampler Print: Tyler MacGillivray Signature: Tyler MacGillivray Date: 4/26/19

Analyst Print: Tyler MacGillivray AAR ID: 9725 Signature: Tyler MacGillivray Date Analyzed: 4/29/19

QC Analyst Print: K Williamson Signature: K Williamson Date Analyzed: 5/10/19

Lab Supervisor Print: K Williamson Signature: K Williamson Date Issued: 5/10/19

Contact/Name: M. Kenny Phone: 260-348-4585 Rotometer No.: L-25 Date of Calibration: 11/9/18 Lab No. 53737

Microscope No. 22002 Received in Lab for Analysis: ☐ QC Only: ☒

Sample Type: PCM ☒ TEM ☐ Other: _____ Analysis Method: NIOSH 7400 ☒ AHERA ☐ Other: _____
Issue 2 8/15/94 A rules

Type of Sample: 1. Background 2. Prep. 3. Work Area 4. Environmental 5. Personal 6. Clearance

Relative Standard Deviation (Sr)		
Range Fibers/fields	Intra-lab Sr	Inter-lab Sr
<20/100	0.520	0.517
20.5 to 50/100	0.352	0.451
>50/100	0.295	0.387

Sample No.	6	7	8	9	10		
Sampling Location/Comments	West Entrance	Central Basement stairs	East Entrance	SB	FB		
Type of Sample	1	1	1	1	1		
Pump Number	1	2	3				
Start Time/Stop Time	9:35 | 16:30	9:35 | 16:30	9:35 | 16:30				
Total Time (min)	415	415	415				
Flow Rate	2.7 | 2.7	2.7 | 2.7	2.7 | 2.7				
Total Volume (l)	1120.5	1120.5	1120.5				
FB — BFB / FL — BFL	9/100	5/100	8/100	0/100	0/100		
Filter Fiber Conc. (fibers/mm²)	11.46	6.36	10.19	-	-		
Airborne Fiber Conc. (fibers/cc)	0.003 ✓	ND< 0.002 ✓	0.003 ✓	-	-		

STANDARDS
<0.01 f/cc – EPA Re–Occupancy Clearance Criteria
0.10 f/cc – OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc – OSHA 30 min Excursion Level
ND< – Non Detected, less than the limit of detection
Limit of Detection – 5.5 fibers/100 fields

Relinquished by: Tyler MacGillivray Date 5/8/19 Time 8:32 PM
Received By: K Williamson Date 5/09/19 Time 0900
Relinquished by: _____ Date _____ Time _____
Received by Laboratory: _____ Date _____ Time _____

TRC Laboratory Asbestos Analytical Certifications:
AZ # AZ0944 CT#PH–0426 HI # L-09-004 LA #05011 MA # AA000052
ME # LA–0075 NJ # CT004 NY # 10980 RI # AAL–007
TX # 300354 VA # 3333000283 VT # AL910359 WV # LT000597
Philadelphia # 461 AIHA IHLAP # 100122 AIHA PAT# 100122

Condition of Samples:
Acceptable: Y ✓ N ____
Comments: _____
AIHA Registry Programs Asbestos Analyst Registry
Organization ID: 100122

QC Recount

Sample No.	FB/FL	Analyst/Date	Field/Lab
6	7/100	KW 5/10/19	Lab

Results relate only to the samples tested, as received by the laboratory. Verifiability of the laboratory's results is limited to the FB/mm².

TRC
21 Griffin Road North
Windsor, CT 06095
860-298-9692

Edition: August 2018
Supersedes Previous Edition

AIR SAMPLE ANALYSIS REPORT

Project No.: 263951 Date: 4/29/19 Page 3 of 3

Client: UI

Site: English station - Station B

Address: 510 Grand Ave
New Haven, CT 06513

Sampler Print: Tyler MacGillivray Signature: Tyler MacGillivray Date: 4/29/19

Analyst Print: Tyler MacGillivray AAR ID: 9725 Signature: " Date Analyzed: 4/30/19

QC Analyst Print: K. Williamson Signature: K. Williamson Date Analyzed: 5/10/19

Lab Supervisor Print: K. Williamson Signature: K. Williamson Date Issued: 5/10/19

Contact/Name: M. Kearny Phone: 860-340-4585 Rotometer No.: L-35 Date of Calibration: 11/9/18 Lab No. 53737

Microscope No. 22002 Received in Lab for Analysis: ☐ QC Only: ☑

Sample Type: PCM ☒ TEM ☐ Other: _____ Analysis Method: NIOSH 7400 ☒ AHERA ☐ Other: _____
Issue 2 8/15/94 A rules

Type of Sample (1. Background) 2. Prep. 3. Work Area 4. Environmental 5. Personal 6. Clearance

Relative Standard Deviation (Sr)		
Range Fibers/fields	Intra-lab Sr	Inter-lab Sr
<20/100	0.520	0.517
20.5 to 50/100	0.352	0.451
>50/100	0.295	0.387

Sample No.	11	12	13	14	15		
Sampling Location/Comments	Decon Entrance	Basement stairs	Neg Air exhaust	SB	FB		
Type of Sample	1	1	1	1	1		
Pump Number	1	2	3				
Start Time/Stop Time	9:00 / 4:50	9:02 / 4:52	9:09 / 4:56				
Total Time (min)	~~410~~ 470	~~410~~ 470	~~410~~ 467				
Flow Rate	3 / 3	3 / 3	3 / 3				
Total Volume (l)	1410	1410	1401				
FB __ BFB FL BFL	10/100	8/100	5/100	0/100	0/100		
Filter Fiber Conc. (fibers/mm²)	12.7	10.19 (VW)	6.36 (VW)	-	-		
Airborne Fiber Conc. (fibers/cc)	0.003	0.0023	ND< 0.0012	-	-		

STANDARDS
<0.01 f/cc – EPA Re–Occupancy Clearance Criteria
0.10 f/cc – OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc – OSHA 30 min Excursion Level
ND< – Non Detected, less than the limit of detection
Limit of Detection – 5.5 fibers/100 fields

Relinquished by: Tyler MacGillivray Date 5/8/19 Time 8:32 PM
Received By: _____ Date 5/9/19 Time 0900
Relinquished by: _____ Date _____ Time _____
Received by Laboratory: _____ Date _____ Time _____

TRC Laboratory Asbestos Analytical Certifications:
AZ # AZ0944 CT#PH–0426 HI # L-09-004 LA #05011 MA # AA000052
ME # LA–0075 NJ # CT004 NY # 10980 RI # AAL–007
TX # 300354 VA # 3333000283 VT # AL910359 WV # LT000597
Philadelphia # 461 AIHA IHLAP # 100122 AIHA PAT# 100122

Condition of Samples:
Acceptable: Y ✓ N _____
Comments: _____
AIHA Registry Programs Asbestos Analyst Registry
Organization ID: 100122

QC Recount

Sample No.	FB/FL	Analyst/Date	Field/Lab

Results relate only to the samples tested, as received by the laboratory. Verifiability of the laboratory's results is limited to the FB/mm².

TRC
21 Griffin Road North
Windsor, CT 06095
860-298-9692

Edition: August 2018
Supersedes Previous Edition

AIR SAMPLE ANALYSIS REPORT

Project No.: 263951 Date: 4/30/19 Page 4 of 4

Client: UI

Site: English station

Address: 510 Grand Ave
New Haven CT 06513

Sampler Print: Tyler Macwilliams Signature: Tyler Macwilliams Date: 4/30/19

Analyst Print: Tyler Macwilliams AAR ID: 9725 Signature: Tyler Macwilliams Date Analyzed: 5/1/19

QC Analyst Print: K Williamson Signature: Date Analyzed: 5/10/19

Lab Supervisor Print: K Williamson Signature: Date Issued: 5/10/19

Contact/Name: M. Kearny Phone: 860-840-4585 Rotometer No.: L-35 Date of Calibration: 11/9/18 Lab No. 53737

Microscope No. 22002 Received in Lab for Analysis: ☐ QC Only: ☒

Sample Type: PCM ☒ TEM ☐ Other: _____ Analysis Method: NIOSH 7400 ☐ AHERA ☐ Other: _____
Issue 2 8/15/94 A rules

Type of Sample: (1. Background) 2. Prep. 3. Work Area 4. Environmental 5. Personal 6. Clearance

Relative Standard Deviation (Sr)		
Range Fibers/fields	Intra-lab Sr	Inter-lab Sr
<20/100	0.520	0.517
20.5 to 50/100	0.352	0.451
>50/100	0.295	0.387

Sample No.	16	17	18	19	20		
Sampling Location/Comments	Basement Entrance	Neg Air exhaust	Decon Entrance	SB	FB		
Type of Sample	1	1	1	1	1		
Pump Number	1	2	3				
Start Time/Stop Time	8:25 | 4:25	8:28 | 4:28	8:32 | 4:32				
Total Time (min)	480	480	480				
Flow Rate	3 | 3	3 | 3	3 | 3				
Total Volume (l)	1440	1440	1440				
FB — BFB / FL — BFL	9/100	12/100	14/100	0/100	9/100		
Filter Fiber Conc. (fibers/mm²)	11.46	15.28	17.83	⊖	⊖		
Airborne Fiber Conc. (fibers/cc)	0.003 ✓	0.004 ✓	0.004 ✓	-	-		

STANDARDS
<0.01 f/cc – EPA Re–Occupancy Clearance Criteria
0.10 f/cc – OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc – OSHA 30 min Excursion Level
ND< – Non Detected, less than the limit of detection
Limit of Detection – 5.5 fibers/100 fields

Relinquished by: Tyler Macwilliams Date 5/8/19 Time 8:32PM
Received By: Date 5/9/19 Time 0900
Relinquished by: Date Time
Received by Laboratory: Date Time

TRC Laboratory Asbestos Analytical Certifications:
AZ # AZ0944 CT#PH–0426 HI # L-09-004 LA #05011 MA # AA000052
ME # LA–0075 NJ # CT004 NY # 10980 RI # AAL–007
TX # 300354 VA # 3333000283 VT # AL910359 WV # LT000597
Philadelphia # 461 AIHA IHLAP # 100122 AIHA PAT# 100122

Condition of Samples: Acceptable: Y ✓ N _____
Comments: _____
AIHA Registry Programs Asbestos Analyst Registry
Organization ID: 100122

QC Recount

Sample No.	FB/FL	Analyst/Date	Field/Lab
16	10/100	KW 5/10/19	Lab

Results relate only to the samples tested, as received by the laboratory. Verifiability of the laboratory's results is limited to the FB/mm².

TRC 21 Griffin Road North Windsor, CT 06095 860-298-9692

Edition: August 2018
Supersedes Previous Edition

AIR SAMPLE ANALYSIS REPORT

Project No.: 263951 Date: 5/1/19 Page 5 of 5

Client: UI

Sampler Print: Tyler MacMurray Signature: Tyler MacMurray Date: 5/1/19

Site: English station

Analyst Print: Tyler MacMurray AAR ID: 9725 Signature: Tyler MacMurray Date Analyzed: 5/21/19

Address: 510 Grand Ave.

QC Analyst Print: KE Williamson Signature: KE Williamson Date Analyzed: 5/10/19

New Haven CT 06513

Lab Supervisor Print: KE Williamson Signature: KE Williamson Date Issued: 5/10/19

Contact/Name: M. Kearny Phone: 860-840-4585 Rotometer No.: L-35 Date of Calibration: 11/9/18 Lab No. 53737

Relative Standard Deviation (Sr)		
Range Fibers/fields	Intra-lab Sr	Inter-lab Sr
<20/100	0.520	0.517
20.5 to 50/100	0.352	0.451
>50/100	0.295	0.387

Microscope No. 22002 Received in Lab for Analysis: ☐ QC Only: ☒

Sample Type: PCM ☒ TEM ☐ Other: _____ Analysis Method: NIOSH 7400 ☐ AHERA ☐ Other: _____
Issue 2 8/15/94 A rules

Type of Sample: (1. Background) 2. Prep. 3. Work Area 4. Environmental 5. Personal 6. Clearance

Sample No.	21	22	23	24	25		
Sampling Location/Comments	Decon Entrance	Basement stairs entrance	Neg Air exhaust	SB	FB		
Type of Sample	1	1	1	1	1		
Pump Number	1	2	3				
Start Time/Stop Time	7:55 | 16:50	7:57 | 16:57	7:58 | 16:58				
Total Time (min)	535	540	540				
Flow Rate	3 | 3	3 | 3	3 | 3				
Total Volume (l)	1605	1620	1620				
FB — BFB FL — BFL	17/100	11/100	8/100	0/100	0/100		
Filter Fiber Conc. (fibers/mm²)	21.65	14.01	10.19	—	—		
Airborne Fiber Conc. (fibers/cc)	0.005	0.003	0.002	—	—		

STANDARDS
<0.01 f/cc – EPA Re–Occupancy Clearance Criteria
0.10 f/cc – OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc – OSHA 30 min Excursion Level
ND< - Non Detected, less than the limit of detection
Limit of Detection – 5.5 fibers/100 fields

Relinquished by: Tyler MacMurray Date 5/8/19 Time 8:32 PM
Received By: _____ Date 5/9/19 Time 0900
Relinquished by: _____ Date _____ Time _____
Received by Laboratory: _____ Date _____ Time _____

TRC Laboratory Asbestos Analytical Certifications:
AZ # AZ0944 CT#PH–0426 HI # L-09-004 LA #05011 MA # AA000052
ME # LA–0075 NJ # CT004 NY # 10980 RI # AAL–007
TX # 300354 VA # 3333000283 VT # AL910359 WV # LT000597
Philadelphia # 461 AIHA IHLAP # 100122 AIHA PAT# 100122

Condition of Samples:
Acceptable: Y ✓ N _____
Comments: _____
AIHA Registry Programs Asbestos Analyst Registry
Organization ID: 100122

Results relate only to the samples tested, as received by the laboratory. Verifiability of the laboratory's results is limited to the FB/mm².

QC Recount

Sample No.	FB/FL	Analyst/Date	Field/Lab

TRC 21 Griffin Road North Windsor, CT 06095 860-298-9692

Edition: August 2018
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AIR SAMPLE ANALYSIS REPORT

Project No.: 26395 | Date: 5/2/19 | Page 6 of 6

Client: UI

Sampler Print: Tyler MacGillivray | Signature: Tyler MacGillivray | Date: 5/2/19

Site: ES station B

Analyst Print: Tyler MacGillivray AAR ID: 9725 | Signature: Tyler MacGillivray | Date Analyzed: 5/8/19

Address: 510 Grand Ave

QC Analyst Print: KW Williamson | Signature: KW Williamson | Date Analyzed: 5/10/19

New Haven CT 06513

Lab Supervisor Print: KW Williamson | Signature: KW Williamson | Date Issued: 5/10/19

Contact/Name: M. Kearney Phone: 860-840-4585 | Rotometer No.: L-35 | Date of Calibration: 11/9/18 | Lab No. 53737

Relative Standard Deviation (Sr)		
Range Fibers/fields	Intra-lab Sr	Inter-lab Sr
<20/100	0.520	0.517
20.5 to 50/100	0.352	0.451
>50/100	0.295	0.387

Microscope No. 22002 | Received in Lab for Analysis: ☐ | QC Only: ☒

Sample Type: PCM ☒ TEM ☐ Other: _____ | Analysis Method: NIOSH 7400 ☒ AHERA ☐ Other: _____
Issue 2 8/15/94 A rules

Type of Sample: (1. Background) 2. Prep. 3. Work Area 4. Environmental 5. Personal 6. Clearance

Sample No.	26	27	28	29	30	31	32
Sampling Location/Comments	Decon Entrance	South side of containment	East side of containment	Decon Entrance	Basement stair Entrance	NE air Exhaust	SB
Type of Sample	1	1	1	1	1	1	
Pump Number	1	2	3	4	5	6	
Start Time/Stop Time	8:15 | 12:50	8:15 | 12:50	8:15 | 12:50	9:15 | 3:50	9:17 | 3:50	9:20 | 3:50	
Total Time (min)	275	275	275	395	393	390	
Flow Rate	4 | 4	4 | 4	4 | 4	3 | 3	3 | 3	3 | 3	
Total Volume (l)	1100	1106	1100	1185	1179	1170	
FB __ BFB FL __ BFL	18/100	20/100	17/100	15/100	6/100	10/100	0/100
Filter Fiber Conc. (fibers/mm²)	22.92	25.47	21.65	19.10	7.64	12.73	–
Airborne Fiber Conc. (fibers/cc)	0.008 ✓	0.008 ✓	0.007 ✓	0.006 ✓	0.002 ✓	0.004 ✓	–

STANDARDS
<0.01 f/cc – EPA Re-Occupancy Clearance Criteria
0.10 f/cc – OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc – OSHA 30 min Excursion Level
ND< – Non Detected, less than the limit of detection
Limit of Detection – 5.5 fibers/100 fields

Relinquished by: Tyler MacGillivray Date 5/8/19 Time 8:32 PM
Received By: KW Date 5/9/19 Time 0900
Relinquished by: _____ Date _____ Time _____
Received by Laboratory: _____ Date _____ Time _____

TRC Laboratory Asbestos Analytical Certifications:
AZ # AZ0944 CT#PH-0426 HI # L-09-004 LA #05011 MA # AA000052
ME # LA-0075 NJ # CT004 NY # 10980 RI # AAL-007
TX # 300354 VA # 3333000283 VT # AL910359 WV # LT000597
Philadelphia # 461 AIHA IHLAP # 100122 AIHA PAT# 100122

Condition of Samples: Acceptable: Y ✓ N _____
Comments: _____
AIHA Registry Programs Asbestos Analyst Registry
Organization ID: 100122

Results relate only to the samples tested, as received by the laboratory Verifiability of the laboratory's results is limited to the FB/mm².

QC Recount

Sample No.	FB/FL	Analyst/Date	Field/Lab
26	14/100	KW 5/10/19	Lab

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AIR SAMPLE ANALYSIS REPORT

Project No.: 263961 Date: 5/2/19 Page 7 of 7

Client: UI

Sampler Print: Tyler Macbillwray Signature: Tyler Macbillwray Date: 5/2/19

Site: ES Station B

Analyst Print: Tyler Macbillwray AAR ID: 9725 Signature: Tyler Macbillwray Date Analyzed: 5/8/19

Address: 510 Grand Ave New Haven CT 06513

QC Analyst Print: K Williamson Signature: K Williamson Date Analyzed: 5/10/19

Lab Supervisor Print: K Williamson Signature: K Williamson Date Issued: 5/10/19

Contact/Name: M. Kearney Phone: 860-840-4685 Rotometer No.: L-35 Date of Calibration: 11/9/18 Lab No. 53737

Microscope No. 22002 Received in Lab for Analysis: ☐ QC Only: ☒

Sample Type: PCM ☒ TEM ☐ Other: _____ Analysis Method: NIOSH 7400 ☒ AHERA ☐ Other: _____
Issue 2 8/15/94 A rules

Type of Sample: 1. ~~Background~~ 2. Prep. 3. Work Area 4. Environmental 5. Personal 6. Clearance

Relative Standard Deviation (Sr)		
Range Fibers/fields	Intra-lab Sr	Inter-lab Sr
<20/100	0.520	0.517
20.5 to 50/100	0.352	0.451
>50/100	0.295	0.387

Sample No.	33							
Sampling Location/Comments	FB							
Type of Sample								
Pump Number								
Start Time/Stop Time								
Total Time (min)								
Flow Rate								
Total Volume (l)								
FB — BFB FL — BFL	0/100							
Filter Fiber Conc. (fibers/mm²)	–							
Airborne Fiber Conc. (fibers/cc)	–							

STANDARDS
<0.01 f/cc – EPA Re–Occupancy Clearance Criteria
0.10 f/cc – OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc – OSHA 30 min Excursion Level
ND< – Non Detected, less than the limit of detection
Limit of Detection – 5.5 fibers/100 fields

Relinquished by: Tyler Macbillwray Date 5/8/19 Time 8:32 PM

Received By: K Williamson Date 5/9/19 Time 0900

Relinquished by: _____ Date _____ Time _____

Received by Laboratory: _____ Date _____ Time _____

TRC Laboratory Asbestos Analytical Certifications:
AZ # AZ0944 CT#PH–0426 HI # L-09-004 LA #05011 MA # AA000052
ME # LA–0075 NJ # CT004 NY # 10980 RI # AAL–007
TX # 300354 VA # 3333000283 VT # AL910359 WV # LT000597
Philadelphia # 461 AIHA IHLAP # 100122 AIHA PAT# 100122

Condition of Samples: Acceptable: Y ✓ N _____
Comments: _____
AIHA Registry Programs Asbestos Analyst Registry Organization ID: 100122

Results relate only to the samples tested, as received by the laboratory Verifiability of the laboratory's results is limited to the FB/mm².

QC Recount

Sample No.	FB/FL	Analyst/Date	Field/Lab

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AIR SAMPLE ANALYSIS REPORT

Project No.: 263951 Date: 5/2/19 Page 8 of 8

Client: UI Sampler Print: Tyler Mackiewicz Signature: Tyler Mackiewicz Date: 5/2/19

Site: ES Station B AAR ID: Analyst Print: Signature: Date Analyzed:

Address: 510 Grand Ave New Haven, CT 06513 QC Analyst Print: Signature: Date Analyzed:

Lab Supervisor Print: Signature: Date Issued:

Contact/Name: M. Kearney Phone: 860-810-4853 Rotometer No.: H-25 Date of Calibration: 11/9/18 Lab No. 53737

Microscope No. Received in Lab for Analysis: ☐ QC Only: ☐

Sample Type: PCM ☐ TEM ☒ Other: Analysis Method: NIOSH 7400 ☐ AHERA ☒ Other:
Issue 2 8/15/94 A rules

Type of Sample: 1. Background 2. Prep. 3. Work Area 4. Environmental 5. Personal 6. Clearance

Relative Standard Deviation (Sr)		
Range Fibers/fields	Intra-lab Sr	Inter-lab Sr
<20/100	0.520	0.517
20.5 to 50/100	0.352	0.451
>50/100	0.295	0.387

Sample No.	34	35	36	37	38		
Sampling Location/Comments	NW Corner	NE Corner	SW corner	SE Corner	Center		
Type of Sample	6	6	6	6	6		
Pump Number	1	2	3	4	5		
Start Time/Stop Time	1:29 | 3:29	1:29 | 3:29	1:29 | 3:29	1:29 | 3:29	1:29 | 3:29		
Total Time (min)	120	120	120	120	120		
Flow Rate	10 | 10	10 | 10	10 | 10	10 | 10	10 | 10		
Total Volume (l)	1200	1200	1200	1200	1200		
FB __ BFB FL BFL							
Filter Fiber Conc. (fibers/mm²)							
Airborne Fiber Conc. (fibers/cc)							

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BY

STANDARDS
<0.01 f/cc – EPA Re–Occupancy Clearance Criteria
0.10 f/cc – OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc – OSHA 30 min Excursion Level
ND< – Non Detected, less than the limit of detection
Limit of Detection – 5.5 fibers/100 fields

Relinquished by: Tyler Mackiewicz Date 5/2/19 Time
Received By: Date 5/3/19 Time 0900
Relinquished by: Date Time
Received by Laboratory: Date Time

TRC Laboratory Asbestos Analytical Certifications:
AZ # AZ0944 CT#PH–0426 HI # L-09-004 LA #05011 MA # AA000052
ME # LA–0075 NJ # CT004 NY # 10980 RI # AAL–007
TX # 300354 VA # 3333000283 VT # AL910359 WV # LT000597
Philadelphia # 461 AIHA IHLAP # 100122 AIHA PAT# 100122

Condition of Samples:
Acceptable: Y ✓ N
Comments:
AIHA Registry Programs Asbestos Analyst Registry
Organization ID: 100122

QC Recount

Sample No.	FB/FL	Analyst/Date	Field/Lab

Results relate only to the samples tested, as received by the laboratory Verifiability of the laboratory's results is limited to the FB/mm².

★ Email results to GKaczynski@TRCcompanies.com / MKearney@TRCcompanies.com ★
★ 24 HR TAT ★

TRC 21 Griffin Road North Windsor, CT 06095 860-298-9692

Edition: August 2018
Supersedes Previous Edition

AIR SAMPLE ANALYSIS REPORT

Project No.: 263951 Date: 5/8/19 Page 9 of 9

Client: UI

Site: Es Station B

Address: 510 Grand Ave, New Haven, CT

Sampler Print: Tyler MacGillivray Signature: Tyler MacGillivray Date: 5/8/19

Analyst Print: Tyler MacGillivray AAR ID: 9725 Signature: Tyler MacGillivray Date Analyzed: 5/9/19

QC Analyst Print: K Williamson Signature: K Williamson Date Analyzed: 6/6/19

Lab Supervisor Print: K Williamson Signature: K Williamson Date Issued: 6/6/19

Contact/Name: Mark Kerney Phone: 860-840-4585 Rotometer No.: L-35 Date of Calibration: N/A Lab No. 53846

Microscope No. 22002 Received in Lab for Analysis: ☐ QC Only: ☑

Sample Type: PCM ☒ TEM ☐ Other: _____ Analysis Method: NIOSH 7400 ☐ AHERA ☐ Other: _____
Issue 2 8/15/94 A rules

Type of Sample: (1. Background) 2. Prep. 3. Work Area 4. Environmental 5. Personal 6. Clearance

Relative Standard Deviation (Sr)		
Range Fibers/fields	Intra-lab Sr	Inter-lab Sr
<20/100	0.520	0.517
20.5 to 50/100	0.352	0.451
>50/100	0.295	0.387

Sample No.	39	40	41	42	43		
Sampling Location/Comments	Basement Decon Ent.	Basement Stair Ent	Neg Air exhaust	SB	FB		
Type of Sample	1	1	1	1	1		
Pump Number	1	2	3	4	5		
Start Time/Stop Time	9:30 | 4:40	9:30 | 4:40	9:33 | 4:43				
Total Time (min)	430	430	436				
Flow Rate	3 | 3	3 | 3	3 | 3				
Total Volume (l)	1290	1290	1290				
FB — BFB FL — BFL	6/100	4/100	9/100	9/100	9/100		
Filter Fiber Conc. (fibers/mm²)	7.64	5.09	11.46	—	—		
Airborne Fiber Conc. (fibers/cc)	0.002	ND< 0.002	0.003	—	—		

STANDARDS
<0.01 f/cc – EPA Re-Occupancy Clearance Criteria
0.10 f/cc – OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc – OSHA 30 min Excursion Level
ND< – Non Detected, less than the limit of detection
Limit of Detection – 5.5 fibers/100 fields

Relinquished by: Tyler MacGillivray Date _____ Time _____
Received By: K Williamson Date 6/6/19 Time 0900
Relinquished by: _____ Date _____ Time _____
Received by Laboratory: _____ Date _____ Time _____

TRC Laboratory Asbestos Analytical Certifications:
AZ # AZ0944 CT#PH-0426 HI # L-09-004 LA #05011 MA # AA000052
ME # LA-0075 NJ # CT004 NY # 10980 RI # AAL-007
TX # 300354 VA # 3333000283 VT # AL910359 WV # LT000597
Philadelphia # 461 AIHA IHLAP # 100122 AIHA PAT# 100122

Condition of Samples: Acceptable: Y ✓ N _____
Comments: _____
AIHA Registry Programs Asbestos Analyst Registry Organization ID: 100122

Results relate only to the samples tested, as received by the laboratory. Verifiability of the laboratory's results is limited to the FB/mm².

QC Recount

Sample No.	FB/FL	Analyst/Date	Field/Lab
40	3/100	KW 6/6/19	Lab

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AIR SAMPLE ANALYSIS REPORT

Project No.: 263951.00028.0001 Date: 5/9/19 Page 10 of 10

Client: UI

Sampler Print: Tyler Mahlway Signature: Tyler Mahlway Date: 5/9/19

Site: English Station Station 15

Analyst Print: Tyler Mahlway AAR ID: Signature: Tyler Mahlway Date Analyzed: 5/10/19

Address: 510 Grand Ave New Haven CT

QC Analyst Print: K Williamson Signature: Date Analyzed: 6/6/19

Lab Supervisor Print: K Williamson Signature: Date Issued: 6/6/19

Contact/Name: M. Kearney Phone: Rotometer No.: L-35 Date of Calibration: 11/9/18 Lab No. 53546

Relative Standard Deviation (Sr)		
Range Fibers/fields	Intra-lab Sr	Inter-lab Sr
<20/100	0.520	0.517
20.5 to 50/100	0.352	0.451
>50/100	0.295	0.387

Microscope No. 22002 Received in Lab for Analysis: ☐ QC Only: ☑

Sample Type: PCM ☐ TEM ☐ Other: Analysis Method: NIOSH 7400 ☑ AHERA ☐ Other:
Issue 2 8/15/94 A rules

Type of Sample: 1. Background 2. (Prep) 3. Work Area 4. Environmental 5. Personal 6. Clearance

Sample No.	44	45	46	47	48		
Sampling Location/Comments	Basement Stair Ent	Waste load out	Neg air exhaust	FB	SB		
Type of Sample	2	2	2				
Pump Number	1	2	3				
Start Time/Stop Time	8:25 | 445	8:25 | 4:45	8:25 | 4:45				
Total Time (min)	440	440	440				
Flow Rate	3 | 3	3 | 3	3 | 3				
Total Volume (l)	1320	1326	1320				
FB — BFB FL — BFL	6/100	17/100	8/100	0/100	0/100		
Filter Fiber Conc. (fibers/mm²)	7.64	21.65	10.14	—	—		
Airborne Fiber Conc. (fibers/cc)	0.002 ✓	0.006 ✓	0.0023 (WL)	—	—		

STANDARDS
<0.01 f/cc – EPA Re-Occupancy Clearance Criteria
0.10 f/cc – OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc – OSHA 30 min Excursion Level
ND< – Non Detected, less than the limit of detection
Limit of Detection – 5.5 fibers/100 fields

Relinquished by: Tyler Mahlway Date Time
Received By: Date 6/6/19 Time 0905
Relinquished by: Date Time
Received by Laboratory: Date Time

TRC Laboratory Asbestos Analytical Certifications:
AZ # AZ0944 CT#PH-0426 HI # L-09-004 LA #05011 MA # AA000052
ME # LA-0075 NJ # CT004 NY # 10980 RI # AAL-007
TX # 300354 VA # 3333000283 VT # AL910359 WV # LT000597
Philadelphia # 461 AIHA IHLAP # 100122 AIHA PAT# 100122

Condition of Samples: Acceptable: Y ✓ N
Comments:
AIHA Registry Programs Asbestos Analyst Registry Organization ID: 100122

Results relate only to the samples tested, as received by the laboratory Verifiability of the laboratory's results is limited to the FB/mm².

QC Recount

Sample No.	FB/FL	Analyst/Date	Field/Lab

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AIR SAMPLE ANALYSIS REPORT

Project No.: 263951.00028.0001 Date: 5/10/19 Page 11 of 11

Client: UI

Sampler Print: Tyler MacGillivray Signature: Tyler MacGillivray Date: 5/10/19

Site: ES Station B 16" pipe

AAR ID:

Analyst Print: Tyler MacGillivray Signature: Tyler MacGillivray Date Analyzed: 5/13/19

Address: 510 Grand Ave New Haven, CT

QC Analyst Print: K. Williamson Signature: Date Analyzed: 6/6/19

Lab Supervisor Print: K. Williamson Signature: Date Issued: 6/6/19

Contact/Name: M. Kearney Phone:

Rotometer No.: L-35 Date of Calibration: 11/9/18 Lab No. 53846

Relative Standard Deviation (Sr)		
Range Fibers/fields	Intra-lab Sr	Inter-lab Sr
<20/100	0.520	0.517
20.5 to 50/100	0.352	0.451
>50/100	0.295	0.387

Microscope No. 22002 Received in Lab for Analysis: ☐ QC Only: ☒

Sample Type: PCM ☒ TEM ☐ Other: Analysis Method: NIOSH 7400 ☒ AHERA ☐ Other:
Issue 2 8/15/94 A rules

Type of Sample: 1. Background 2. Prep. 3. Work Area 4. Environmental 5. Personal 6. Clearance

Sample No.	49	50	51	52	53	54	
Sampling Location/Comments	Decon Entrance	Basement Stairs Ent	Waste load out	Neg Air exhaust	SB	FB	
Type of Sample	1	1	1	1			
Pump Number	1	2	3	4			
Start Time/Stop Time	8:50 | 2:50	8:50 | 2:50	8:50 | 2:50	8:50 | 2:50			
Total Time (min)	360	360	360	360			
Flow Rate	3 | 3	3 | 3	3 | 3	3 | 3			
Total Volume (l)	1080	1080	1080	1080			
FB — BFB / FL — BFL	7/100	6/100	5/100	13/100	0/100	0/100	
Filter Fiber Conc. (fibers/mm²)	8.41	7.64	6.36	16.56	-	-	
Airborne Fiber Conc. (fibers/cc)	0.003	0.0023 (LW)	ND<0.002	0.0056 (LW)	-	-	

STANDARDS
<0.01 f/cc – EPA Re–Occupancy Clearance Criteria
0.10 f/cc – OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc – OSHA 30 min Excursion Level
ND< – Non Detected, less than the limit of detection
Limit of Detection – 5.5 fibers/100 fields

Relinquished by: Tyler MacGillivray Date Time
Received By: K. Williamson Date 6/6/19 Time 0900
Relinquished by: Date Time
Received by Laboratory: Date Time

TRC Laboratory Asbestos Analytical Certifications:
AZ # AZ0944 CT#PH–0426 HI # L-09-004 LA #05011 MA # AA000052
ME # LA–0075 NJ # CT004 NY # 10980 RI # AAL–007
TX # 300354 VA # 3333000283 VT # AL910359 WV # LT000597
Philadelphia # 461 AIHA IHLAP # 100122 AIHA PAT# 100122

Condition of Samples: Acceptable: Y ✓ N
Comments:
AIHA Registry Programs Asbestos Analyst Registry Organization ID: 100122

Results relate only to the samples tested, as received by the laboratory Verifiability of the laboratory's results is limited to the FB/mm².

QC Recount

Sample No.	FB/FL	Analyst/Date	Field/Lab
52	10/100	KW 6/6/19	ww

TRC 21 Griffin Road North Windsor, CT 06095 860-298-9692

Edition: August 2018
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AIR SAMPLE ANALYSIS REPORT

Project No.: 263951.00028.0001 Date: 5/20/19

Client: VI

Sampler Print: Tyler MacMurray Signature: Tyler MacMurray Date: 5/20/19

Site: Es Station Station B 16' Pipe

Analyst Print: Tyler MacMurray AAR ID: Signature: Tyler MacMurray Date Analyzed: 5/21/19

Address: 510 Grand Ave New Haven, CT

QC Analyst Print: K Williamson Signature: Date Analyzed: 6/6/19

Lab Supervisor Print: K Williamson Signature: Date Issued: 6/6/19

Contact/Name: M. Keamy Phone:

Rotometer No.: L-35 Date of Calibration: 4/9/18 Lab No. 53546

Relative Standard Deviation (Sr)		
Range Fibers/fields	Intra-lab Sr	Inter-lab Sr
<20/100	0.520	0.517
20.5 to 50/100	0.352	0.451
>50/100	0.295	0.387

Microscope No. 22009 Received in Lab for Analysis: ☐ QC Only: ☑

Sample Type: PCM ☒ TEM ☐ Other: Analysis Method: NIOSH 7400 ☒ AHERA ☐ Other:
Issue 2 8/15/94 A rules

Type of Sample: 1. Background 2. Prep. 3. Work Area 4. Environmental 5. Personal 6. Clearance

Sample No.	55	56	57	58	59		
Sampling Location/Comments	Neg Air Exhaust	Basement stair Ent	Decon Ent	SB	FB		
Type of Sample	1	1	1				
Pump Number	1	2	3				
Start Time/Stop Time	8:40 | 3:26	8:40 | 3:26	8:40 | 3:26				
Total Time (min)	406	406	406				
Flow Rate	3 | 3	3 | 3	3 | 3				
Total Volume (l)	1218	1218	1218				
FB __ BFB FL BFL	5/100	Overloaded	6/100	0/100	0/100		
Filter Fiber Conc. (fibers/mm²)	6.36	Overloaded	7.64	-	-		
Airborne Fiber Conc. (fibers/cc)	ND<0.002	Overloaded	0.002	-	-		

STANDARDS
<0.01 f/cc – EPA Re-Occupancy Clearance Criteria
0.10 f/cc – OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc – OSHA 30 min Excursion Level
ND< – Non Detected, less than the limit of detection
Limit of Detection – 5.5 fibers/100 fields

Relinquished by: Tyler MacMurray Date Time
Received By: Date 6/6/19 Time 0900
Relinquished by: Date Time
Received by Laboratory: Date Time

TRC Laboratory Asbestos Analytical Certifications:
AZ # AZ0944 CT#PH-0426 HI # L-09-004 LA #05011 MA # AA000052
ME # LA-0075 NJ # CT004 NY # 10980 RI # AAL-007
TX # 300354 VA # 3333000283 VT # AL910359 WV # LT000597
Philadelphia # 461 AIHA IHLAP # 100122 AIHA-PAT# 100122

Condition of Samples:
Acceptable: Y ✓ N
Comments:
AIHA Registry Programs Asbestos Analyst Registry
Organization ID: 100122

QC Recount

Sample No.	FB/FL	Analyst/Date	Field/Lab

Results relate only to the samples tested, as received by the laboratory. Verifiability of the laboratory's results is limited to the FB/mm².

TRC 21 Griffin Road North Windsor, CT 06095 860-298-9692

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Supersedes Previous Edition

AIR SAMPLE ANALYSIS REPORT

Project No.: 263451.00028.0001 Date: 5/21/19 Page 13 of 13

Client: UI

Sampler Print: Tyler MacGillivray Signature: Tyler MacGillivray Date: 5/21/19

Site: ES Station B 16' pipe

AAR ID:

Analyst Print: Tyler MacGillivray Signature: Tyler MacGillivray Date Analyzed: 5/22/19

Address: 510 Grand Ave

QC Analyst Print: K Williamson Signature: K Williamson Date Analyzed: 6/6/19

New Haven, CT

Lab Supervisor Print: K Williamson Signature: K Williamson Date Issued: 6/6/19

Contact/Name: M Kearney Phone: Rotometer No.: L-25 Date of Calibration: 5/20/19 Lab No. 53846

Microscope No. 22002 Received in Lab for Analysis: ☐ QC Only: ☒

Relative Standard Deviation (Sr)		
Range Fibers/fields	Intra-lab Sr	Inter-lab Sr
<20/100	0.520	0.517
20.5 to 50/100	0.352	0.451
>50/100	0.295	0.387

Sample Type: PCM ☒ TEM ☐ Other: _____ Analysis Method: NIOSH 7400 ☒ AHERA ☐ Other: _____
Issue 2 8/15/94 A rules

Type of Sample: 1. Background 2. Prep. 3. Work Area 4. Environmental 5. Personal 6. Clearance

Sample No.	60	61	62	63	64		
Sampling Location/Comments	Neg Air exhaust.	Basement stair Ent.	Decon Ent.	SB	FB		
Type of Sample	1	1	1				
Pump Number	1	2	3				
Start Time/Stop Time	9:05 / 3:40	9:05 / 3:40	9:05 / 3:40				
Total Time (min)	395	395	395				
Flow Rate	3 / 3	3 / 3	3 / 3				
Total Volume (l)	1185	1185	1185				
FB __ BFB FL BFL	13/100	6/100	8/100	0/100	0/100		
Filter Fiber Conc. (fibers/mm²)	16.56	7.64	10.14	-	-		
Airborne Fiber Conc. (fibers/cc)	0.005	0.002	0.003	-	-		

STANDARDS
<0.01 f/cc – EPA Re–Occupancy Clearance Criteria
0.10 f/cc – OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc – OSHA 30 min Excursion Level
ND< – Non Detected, less than the limit of detection
Limit of Detection – 5.5 fibers/100 fields

Relinquished by: Tyler MacGillivray Date _____ Time _____
Received By: K Williamson Date 6/6/19 Time 0900
Relinquished by: _____ Date _____ Time _____
Received by Laboratory: _____ Date _____ Time _____

TRC Laboratory Asbestos Analytical Certifications:
AZ # AZ0944 CT#PH–0426 HI # L-09-004 LA #05011 MA # AA000052
ME # LA–0075 NJ # CT004 NY # 10980 RI # AAL–007
TX # 300354 VA # 3333000283 VT # AL910359 WV # LT000597
Philadelphia # 461 AIHA IHLAP # 100122 AIHA PAT# 100122

Condition of Samples:
Acceptable: Y ✓ N ____
Comments: _____
AIHA Registry Programs Asbestos Analyst Registry
Organization ID: 100122

Results relate only to the samples tested, as received by the laboratory. Verifiability of the laboratory's results is limited to the FB/mm².

QC Recount

Sample No.	FB/FL	Analyst/Date	Field/Lab
62	7/100	KW 6/6/19	Lab

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AIR SAMPLE ANALYSIS REPORT

Project No.: 263951.00028.000 Date: 5/22/19 Page 14 of 14

Client: UI

Sampler Print: Tyler Maddaway Signature: Tyler Maddaway Date: 5/22/19

Site: ES Station B 16" Pipe

Analyst Print: Tyler Maddaway AAR ID: Signature: Tyler Maddaway Date Analyzed: 5/23/19

Address: 510 Grand Ave. New Haven CT

QC Analyst Print: K Williamson Signature: Date Analyzed: 6/6/19

Lab Supervisor Print: K Williamson Signature: Date Issued: 6/6/19

Contact/Name: M. Kearney Phone:

Rotometer No.: L-25 Date of Calibration: 5/21/19 Lab No. 53846

Microscope No. 22002 Received in Lab for Analysis: ☐ QC Only: ☑

Sample Type: PCM ☒ TEM ☐ Other: Analysis Method: NIOSH 7400 ☒ AHERA ☐ Other:
Issue 2 8/15/94 A rules

Type of Sample: 1. Background 2. Prep. 3. Work Area 4. Environmental 5. Personal 6. Clearance

Relative Standard Deviation (Sr)		
Range Fibers/fields	Intra-lab Sr	Inter-lab Sr
<20/100	0.520	0.517
20.5 to 50/100	0.352	0.451
>50/100	0.295	0.387

Sample No.	65	66	67	68	69		
Sampling Location/Comments	Decon Ent.	Basement stair Ent	Neg Air Exhaust	SB	FB		
Type of Sample	1	1	1				
Pump Number	1	2	3				
Start Time/Stop Time	8:20 | 3:35	8:20 | 3:35	8:20 | 3:35				
Total Time (min)	435	435	435				
Flow Rate	3 | 3	3 | 3	3 | 3				
Total Volume (l)	1305	1305	1305				
FB — BFB FL — BFL	7/100	10/100	6/100	0/100	0/100		
Filter Fiber Conc. (fibers/mm²)	8.91	12.73	7.64	-	-		
Airborne Fiber Conc. (fibers/cc)	0.0073	0.0104	0.002	-	-		

STANDARDS
<0.01 f/cc – EPA Re-Occupancy Clearance Criteria
0.10 f/cc – OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc – OSHA 30 min Excursion Level
ND< – Non Detected, less than the limit of detection
Limit of Detection – 5.5 fibers/100 fields

Relinquished by: Tyler Maddaway Date Time
Received By: K Williamson Date 6/6/19 Time 0900
Relinquished by: Date Time
Received by Laboratory: Date Time

TRC Laboratory Asbestos Analytical Certifications:
AZ # AZ0944 CT#PH-0426 HI # L-09-004 LA #05011 MA # AA000052
ME # LA-0075 NJ # CT004 NY # 10980 RI # AAL-007
TX # 300354 VA # 3333000283 VT # AL910359 WV # LT000597
Philadelphia # 461 AIHA IHLAP # 100122 AIHA PAT# 100122

Condition of Samples: Acceptable: Y ✓ N
Comments:
AIHA Registry Programs Asbestos Analyst Registry
Organization ID: 100122

Results relate only to the samples tested, as received by the laboratory. Verifiability of the laboratory's results is limited to the FB/mm².

QC Recount

Sample No.	FB/FL	Analyst/Date	Field/Lab

TRC 21 Griffin Road North Windsor, CT 06095 860-298-9692

Edition: August 2018
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AIR SAMPLE ANALYSIS REPORT

Project No.: 263951.00026.0001 Date: 5/23/19 Page 15 of 15

Client: UI

Sampler Print: Tyler MacMurray Signature: Tyler MacMurray Date: 5/23/19

Site: ES Station B

Analyst Print: Tyler MacMurray AAR ID: Signature: Tyler MacMurray Date Analyzed: 5/24/19

Address: 510 Grand Ave. New Haven, CT

QC Analyst Print: K Williamson Signature: K Williamson Date Analyzed: 6/6/19

Lab Supervisor Print: K Williamson Signature: K Williamson Date Issued: 6/6/19

Contact/Name: M. Kearney Phone: Rotometer No.: L-25 Date of Calibration: 5/22/19 Lab No. 53846

Microscope No. 32002 Received in Lab for Analysis: ☐ QC Only: ☒

Relative Standard Deviation (Sr)		
Range Fibers/fields	Intra-lab Sr	Inter-lab Sr
<20/100	0.520	0.517
20.5 to 50/100	0.352	0.451
>50/100	0.295	0.387

Sample Type: PCM ☐ TEM ☐ Other: _____ Analysis Method: NIOSH 7400 ☒ AHERA ☐ Other: _____
Issue 2 8/15/94 A rules

Type of Sample: 1. Background 2. Prep. 3. Work Area 4. Environmental 5. Personal 6. Clearance

Sample No.	70	71	72	73	74	75	76
Sampling Location/Comments	Basement Decon	Basement Stairs	Basement Neg Air Exh	Mens locker RM Decon	Mens locker RM Neg	Womens locker RM	Women's locker RM
Type of Sample	1	1	1	1	1	1	1
Pump Number	1	2	3	4	5	6	7
Start Time/Stop Time	7:40 / 3:10	7:40 / 3:10	7:40 / 3:10	7:40 / 3:15	7:40 / 3:15	12:30 / 3:15	12:30 / 3:15
Total Time (min)	450	450	450	455	455	165	165
Flow Rate	3 / 3	3 / 3	3 / 3	3 / 3	3 / 3	3 / 3	3 / 3
Total Volume (l)	1350	1350	1350	1365	1365	495	495
FB __ BFB FL __ BFL	5/100	5/100	6/100	5/106	8/100	1/100	3/100
Filter Fiber Conc. (fibers/mm²)	6.36	6.36 (KW)	7.64	6.36	10.19 (KW)	1.27	3.8
Airborne Fiber Conc. (fibers/cc)	ND<0.002	ND<0.002	0.002	ND<0.002 (KW)	0.0023 (KW)	ND<0.005	ND<0.005

STANDARDS
<0.01 f/cc – EPA Re-Occupancy Clearance Criteria
0.10 f/cc – OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc – OSHA 30 min Excursion Level
ND< – Non Detected, less than the limit of detection
Limit of Detection – 5.5 fibers/100 fields

Relinquished by: Tyler MacMurray Date _____ Time _____
Received By: K Williamson Date 6/6/19 Time 0900
Relinquished by: _____ Date _____ Time _____
Received by Laboratory: _____ Date _____ Time _____

TRC Laboratory Asbestos Analytical Certifications:
AZ # AZ0944 CT#PH-0426 HI # L-09-004 LA #05011 MA # AA000052
ME # LA-0075 NJ # CT004 NY # 10980 RI # AAL-007
TX # 300354 VA # 3333000283 VT # AL910359 WV # LT000597
Philadelphia # 461 AIHA IHLAP # 100122 AIHA PAT# 100122

Condition of Samples: Acceptable: Y ✓ N _____
Comments: _____
AIHA Registry Programs Asbestos Analyst Registry Organization ID: 100122

Results relate only to the samples tested, as received by the laboratory. Verifiability of the laboratory's results is limited to the FB/mm².

QC Recount

Sample No.	FB/FL	Analyst/Date	Field/Lab
72	4/100	K Williamson 6/6/19	Lab

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Edition: August 2018
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AIR SAMPLE ANALYSIS REPORT

Project No.: 263951.00028.0001 Date: 5/23/19 Page 16 of 16

Client: UI

Sampler Print: Tyler Mabillivray Signature: Tyler Mabillivray Date: 5/23/19

Site: ES Station B 16" pipe

Analyst Print: Tyler Mabillivray AAR ID: Signature: Tyler Mabillivray Date Analyzed: 5/23/19

Address: 510 Grand Ave

QC Analyst Print: K Williamson Signature: K Williamson Date Analyzed: 6/6/19

New Haven, CT

Lab Supervisor Print: K Williamson Signature: K Williamson Date Issued: 6/6/19

Contact/Name: M. Kearney Phone: Rotometer No.: L-25 Date of Calibration: 5/20/19 Lab No. 538446

Relative Standard Deviation (Sr)		
Range Fibers/fields	Intra-lab Sr	Inter-lab Sr
<20/100	0.520	0.517
20.5 to 50/100	0.352	0.451
>50/100	0.295	0.387

Microscope No. 22002 Received in Lab for Analysis: ☐ QC Only: ☑

Sample Type: PCM ☐ TEM ☐ Other: _____ Analysis Method: NIOSH 7400 ☒ AHERA ☐ Other: _____
Issue 2 8/15/94 A rules

Type of Sample: 1. Background 2. Prep. 3. Work Area 4. Environmental 5. Personal 6. Clearance

Sample No.	77	78	79	80	81	82	83
Sampling Location/Comments	West	West Central	Center	East Central	East	SB	FB
Type of Sample	6	6	6	6	6	6	6
Pump Number	1	2	3	4	5		
Start Time/Stop Time	12:14 | 1:34	12:14 | 1:34	12:14 | 1:34	12:14 | 1:34	12:14 | 1:34		
Total Time (min)	80	80	80	80	80		
Flow Rate	15 | 15	15 | 15	15 | 15	15 | 15	15 | 15		
Total Volume (l)	1200	1200	1200	1200	1200		
FB — BFB / FL — BFL	1/100	3/100	3/100	2/100	4/100	0/100	0/100
Filter Fiber Conc. (fibers/mm²)	1.27	3.82	3.82	2.54	5.09	-	-
Airborne Fiber Conc. (fibers/cc)	ND<0.002	ND<0.002	ND<0.002	ND<0.002	ND<0.002	-	-

STANDARDS
<0.01 f/cc – EPA Re-Occupancy Clearance Criteria
0.10 f/cc – OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc – OSHA 30 min Excursion Level
ND< – Non Detected, less than the limit of detection
Limit of Detection – 5.5 fibers/100 fields

Relinquished by: Tyler Mabillivray Date _____ Time _____
Received By: K Williamson Date 6/6/19 Time 0900
Relinquished by: _____ Date _____ Time _____
Received by Laboratory: _____ Date _____ Time _____

TRC Laboratory Asbestos Analytical Certifications:
AZ # AZ0944 CT#PH-0426 HI # L-09-004 LA #05011 MA # AA000052
ME # LA-0075 NJ # CT004 NY # 10980 RI # AAL-007
TX # 300354 VA # 3333000283 VT # AL910359 WV # LT000597
Philadelphia # 461 AIHA IHLAP # 100122 AIHA PAT# 100122

Condition of Samples: Acceptable: Y ✓ N _____
Comments: _____
AIHA Registry Programs Asbestos Analyst Registry
Organization ID: 100122

QC Recount

Sample No.	FB/FL	Analyst/Date	Field/Lab

Results relate only to the samples tested, as received by the laboratory. Verifiability of the laboratory's results is limited to the FB/mm².

TRC 21 Griffin Road North Windsor, CT 06095 860-298-9692

Edition: August 2018
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AIR SAMPLE ANALYSIS REPORT

Project No.: 263951.00028.0001 Date: 5/24/19 Page 17 of 17

Client: UI

Sampler Print: Tyler Macwilliams Signature: Tyler Macwilliams Date: 5/24/19

Site: ES Staton B

Analyst Print: Tyler Macwilliams AAR ID: Signature: Tyler Macwilliams Date Analyzed: 5/28/19

Address: 510 Grand Ave

QC Analyst Print: K Williamson Signature: K Williamson Date Analyzed: 6/6/19

New Haven, CT

Lab Supervisor Print: K Williamson Signature: K Williamson Date Issued: 6/6/19

Contact/Name: M. Kearney Phone: Rotometer No.: L-25 Date of Calibration: 5/22/19 Lab No. 53846

Relative Standard Deviation (Sr)		
Range Fibers/fields	Intra-lab Sr	Inter-lab Sr
<20/100	0.520	0.517
20.5 to 50/100	0.352	0.451
>50/100	0.295	0.387

Microscope No. 22002 Received in Lab for Analysis: ☐ QC Only: ☒

Sample Type: PCM ☒ TEM ☐ Other: _____ Analysis Method: NIOSH 7400 ☒ AHERA ☐ Other: _____
Issue 2 8/15/94 A rules

Type of Sample: (1. Background) 2. Prep. 3. Work Area 4. Environmental 5. Personal 6. Clearance

Sample No.	84	85	86	87			
Sampling Location/Comments	Mens locker RM Devon	Mens Locker Neg Air	Womens locker Devon	Women's locker Neg Air			
Type of Sample	1	1	1	1			
Pump Number	1	2	3	4			
Start Time/Stop Time	8:10 | 3:20	8:10 | 3:20	8:10 | 3:20	8:10 | 3:20			
Total Time (min)	430	430	430	430			
Flow Rate	3 | 3	3 | 3	3 | 3	3 | 3			
Total Volume (l)	1290	1290	1290	1290			
FB — BFB / FL — BFL	7/100	4/100	6/100	5/100			
Filter Fiber Conc. (fibers/mm²)	8.91	5.09	7.64	6.36			
Airborne Fiber Conc. (fibers/cc)	0.0073 (DO)	ND<0.002	0.002	ND<0.002			

STANDARDS
<0.01 f/cc – EPA Re–Occupancy Clearance Criteria
0.10 f/cc – OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc – OSHA 30 min Excursion Level
ND< – Non Detected, less than the limit of detection
Limit of Detection – 5.5 fibers/100 fields

Relinquished by: Tyler Macwilliams Date _____ Time _____
Received By: K Williamson Date 6/6/19 Time 0900
Relinquished by: _____ Date _____ Time _____
Received by Laboratory: _____ Date _____ Time _____

TRC Laboratory Asbestos Analytical Certifications:
AZ # AZ0944 CT#PH–0426 HI # L-09-004 LA #05011 MA # AA000052
ME # LA–0075 NJ # CT004 NY # 10980 RI # AAL–007
TX # 300354 VA # 3333000283 VT # AL910359 WV # LT000597
Philadelphia # 461 AIHA IHLAP # 100122 AIHA PAT# 100122

Condition of Samples: Acceptable: Y ✓ N _____
Comments: _____
AIHA Registry Programs Asbestos Analyst Registry
Organization ID: 100122

Results relate only to the samples tested, as received by the laboratory. Verifiability of the laboratory's results is limited to the FB/mm².

QC Recount

Sample No.	FB/FL	Analyst/Date	Field/Lab
85	3/100	KW 6/6/19	[illegible]

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Edition: August 2018
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AIR SAMPLE ANALYSIS REPORT

Project No.: 263951.00028.0001 Date: 5/24/19 Page 18 of 18

Client: UI

Sampler Print: Tyler Mailliwray Signature: Tyler Mailliwray Date: 5/24/19

Site: Es Station Station B Men's Locker room

AAR ID:

Analyst Print: Tyler Mailliwray Signature: Tyler Mailliwray Date Analyzed: 5/24/19

Address: 510 Grand Ave

QC Analyst Print: Lee Williamson Signature: Lee Date Analyzed: 6/14/19

New Haven CT

Lab Supervisor Print: Lee Williamson Signature: Lee Date Issued: 6/14/19

Contact/Name: M. Kearney Phone:

Rotometer No.: HL Date of Calibration: Lab No. 53888

Relative Standard Deviation (Sr)		
Range Fibers/fields	Intra-lab Sr	Inter-lab Sr
<20/100	0.520	0.517
20.5 to 50/100	0.352	0.451
>50/100	0.295	0.387

Microscope No. 22002 Received in Lab for Analysis: ☐ QC Only: ~~☒~~

Sample Type: PCM ☒ TEM ☐ Other: Analysis Method: NIOSH 7400 ☒ AHERA ☐ Other:
Issue 2 8/15/94 A rules

Type of Sample: 1. Background 2. Prep. 3. Work Area 4. Environmental 5. Personal (6. Clearance)

Sample No.	88	89	90	91	92	93	94
Sampling Location/Comments	Mens shower	Men's shower	Men's locker North	Men's locker center	Men's locker south	SB	FB
Type of Sample	6	6	6	6	6	6	6
Pump Number	1	2	3	4	5		
Start Time/Stop Time	11:50 | 1:10	11:50 | 1:10	11:50 | 1:10	11:50 | 1:10	11:50 | 1:10		
Total Time (min)	80	80	80	80	80		
Flow Rate	15 | 15	15 | 15	15 | 15	15 | 15	15 | 15		
Total Volume (l)	1200	1200	1200	1200	1200		
FB ___ BFB FL ___ BFL	8/100	6/100	11/100	6/100	9/100	0/100	0/100
Filter Fiber Conc. (fibers/mm²)	10.14	7.64	14.01	7.64	11.46	–	–
Airborne Fiber Conc. (fibers/cc)	0.003	0.002	0.004	0.002	0.0034 (W)	–	–

STANDARDS
<0.01 f/cc – EPA Re–Occupancy Clearance Criteria
0.10 f/cc – OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc – OSHA 30 min Excursion Level
ND< – Non Detected, less than the limit of detection
Limit of Detection – 5.5 fibers/100 fields

Relinquished by: Tyler Mailliwray Date Time
Received By: Lee Date 6/14/19 Time 0800
Relinquished by: Date Time
Received by Laboratory: Date Time

TRC Laboratory Asbestos Analytical Certifications:
AZ # AZ0944 CT#PH–0426 HI # L-09-004 LA #05011 MA # AA000052
ME # LA–0075 NJ # CT004 NY # 10980 RI # AAL–007
TX # 300354 VA # 3333000283 VT # AL910359 WV # LT000597
Philadelphia # 461 AIHA IHLAP # 100122 AIHA PAT# 100122

Condition of Samples: Acceptable: Y ✓ N ___
Comments:
AIHA Registry Programs Asbestos Analyst Registry Organization ID: 100122

Results relate only to the samples tested, as received by the laboratory. Verifiability of the laboratory's results is limited to the FB/mm².

QC Recount

Sample No.	FB/FL	Analyst/Date	Field/Lab
91	5/100	Lee 6/14/19	Lab

TRC 21 Griffin Road North Windsor, CT 06095 860-298-9692

Edition: August 2018
Supersedes Previous Edition

AIR SAMPLE ANALYSIS REPORT

Project No.: 263951.00028.0001 Date: 5/24/19 Page 19 of 19

Client: UT

Sampler Print: Tyler Macdillwray Signature: Tyler Macdillwray Date: 5/24/19

Site: ES Station B Women's locker room

AAR ID:

Analyst Print: Tyler Macdillwray Signature: Tyler Macdillwray Date Analyzed: 5/24/19

Address: 510 Grand Ave

QC Analyst Print: K Williamson Signature: K Williamson Date Analyzed: 6/14/19

New Haven CT

Lab Supervisor Print: K Williamson Signature: K Williamson Date Issued: 6/14/19

Contact/Name: M. Kearney Phone: Rotometer No.: Date of Calibration: Lab No. 53888

Relative Standard Deviation (Sr)		
Range Fibers/fields	Intra-lab Sr	Inter-lab Sr
<20/100	0.520	0.517
20.5 to 50/100	0.352	0.451
>50/100	0.295	0.387

Microscope No. 22002 Received in Lab for Analysis: ☐ QC Only: ☒

Sample Type: PCM ☒ TEM ☐ Other: Analysis Method: NIOSH 7400 ☒ AHERA ☐ Other:
Issue 2 8/15/94 A rules

Type of Sample: 1. Background 2. Prep. 3. Work Area 4. Environmental 5. Personal (6. Clearance)

Sample No.	95	96	97	98	99	100	101
Sampling Location/Comments	Womens locker West	Womens locker East	Both Entrance	Womens Both West	Womens Both East	SB	FB
Type of Sample	6	6	6	6	6		
Pump Number	1	2	3	4	5		
Start Time/Stop Time	1:20 2:40	1:20 2:40	1:20 2:40	1:20 2:40	1:20 2:40		
Total Time (min)	80	80	80	80	80		
Flow Rate	15 15	15 15	15 15	15 15	15 15		
Total Volume (l)	1200	1200	1200	1200	1200		
FB — BFB / FL — BFL	4/100	6/100	7/100	7/100	9/100	0/100	0/100
Filter Fiber Conc. (fibers/mm²)	5.09	7.64	8.91	8.91	11.46	—	—
Airborne Fiber Conc. (fibers/cc)	ND<0.002 ✓	0.002 ✓	0.0073 (W)	0.0073	0.0034	—	—

STANDARDS
<0.01 f/cc – EPA Re–Occupancy Clearance Criteria
0.10 f/cc – OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc – OSHA 30 min Excursion Level
ND< – Non Detected, less than the limit of detection
Limit of Detection – 5.5 fibers/100 fields

Relinquished by: Tyler Macdillwray Date Time
Received By: Date 6/14/19 Time 0800
Relinquished by: Date Time
Received by Laboratory: Date Time

TRC Laboratory Asbestos Analytical Certifications:
AZ # AZ0944 CT#PH–0426 HI # L-09-004 LA #05011 MA # AA000052
ME # LA–0075 NJ # CT004 NY # 10980 RI # AAL–007
TX # 300354 VA # 3333000283 VT # AL910359 WV # LT000597
Philadelphia # 461 AIHA IHLAP # 100122 AIHA PAT# 100122

Condition of Samples:
Acceptable: Y ✓ N
Comments:
AIHA Registry Programs Asbestos Analyst Registry
Organization ID: 100122

Results relate only to the samples tested, as received by the laboratory. Verifiability of the laboratory's results is limited to the FB/mm².

QC Recount

Sample No.	FB/FL	Analyst/Date	Field/Lab

TRC 21 Griffin Road North Windsor, CT 06095 860-298-9692

Edition: August 2018
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AIR SAMPLE ANALYSIS REPORT

Project No.: 263951.00228.0001 Date: 5/28/19 Page 20 of 20

Client: UI

Sampler Print: Tyler Macgillivray Signature: Tyler Macgillivray Date: 5/28/19

Site: English Station East Offices

Analyst Print: Tyler Macgillivray AAR ID: Signature: Tyler Macgillivray Date Analyzed: 5/29/19

Address: 510 Grand Ave.

QC Analyst Print: K. Williamson Signature: Date Analyzed: 6/14/19

New Haven CT

Lab Supervisor Print: K. Williamson Signature: Date Issued: 6/14/19

Contact/Name: M. Keamey Phone: Rotometer No.: L-25 Date of Calibration: 5/20/19 Lab No. 53888

Relative Standard Deviation (Sr)		
Range Fibers/fields	Intra-lab Sr	Inter-lab Sr
<20/100	0.520	0.517
20.5 to 50/100	0.352	0.451
>50/100	0.295	0.387

Microscope No. 22002 Received in Lab for Analysis: ☐ QC Only: ☒

Sample Type: PCM ☒ TEM ☐ Other: _____ Analysis Method: NIOSH 7400 ☒ AHERA ☐ Other: _____
Issue 2 8/15/94 A rules

Type of Sample: 1. Background 2. Prep. 3. Work Area 4. Environmental 5. Personal 6. Clearance

Sample No.	102	103	104	105	106		
Sampling Location/Comments	Decon Ent	Critical West	Neg Air Exhaust	SB	FB		
Type of Sample	2	2	2				
Pump Number	1	2	3				
Start Time/Stop Time	10:45 3:10	10:45 3:10	10:45 3:10				
Total Time (min)	265	265	265				
Flow Rate	3 3	3 3	3 3				
Total Volume (l)	795	795	795				
FB __ BFB FL __ BFL	8/100	5/100	7/100	2/100	0/100		
Filter Fiber Conc. (fibers/mm²)	10.19	6.36	8.91	-	-		
Airborne Fiber Conc. (fibers/cc)	0.0045 (ND)	ND<0.003	0.004 ✓	-	-		

STANDARDS
<0.01 f/cc – EPA Re-Occupancy Clearance Criteria
0.10 f/cc – OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc – OSHA 30 min Excursion Level
ND< – Non Detected, less than the limit of detection
Limit of Detection – 5.5 fibers/100 fields

Relinquished by: Tyler Macgillivray Date 6/13/19 Time _____
Received By: K. Williamson Date 6/14/19 Time 0800
Relinquished by: _____ Date _____ Time _____
Received by Laboratory: _____ Date _____ Time _____

TRC Laboratory Asbestos Analytical Certifications:
AZ # AZ0944 CT#PH-0426 HI # L-09-004 LA #05011 MA # AA000052
ME # LA-0075 NJ # CT004 NY # 10980 RI # AAL-007
TX # 300354 VA # 3333000283 VT # AL910359 WV # LT000597
Philadelphia # 461 AIHA IHLAP # 100122 AIHA PAT# 100122

Condition of Samples:
Acceptable: Y ✓ N ____
Comments: _____
AIHA Registry Programs Asbestos Analyst Registry
Organization ID: 100122

Results relate only to the samples tested, as received by the laboratory. Verifiability of the laboratory's results is limited to the FB/mm².

QC Recount

Sample No.	FB/FL	Analyst/Date	Field/Lab
102	6/100	KW 6/14/19	Lab

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Edition: August 2018
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AIR SAMPLE ANALYSIS REPORT

Project No.: 263951.00028.0001 Date: 5/29/19 Page 21 of 21

Client: UI

Sampler Print: Tyler MacGillivray Signature: Tyler MacGillivray Date: 5/29/19

Site: ES Station B East offices

Analyst Print: Tyler MacGillivray AAR ID: Signature: Tyler MacGillivray Date Analyzed: 5/30/19

Address: 510 Grand Ave

QC Analyst Print: K Williamson Signature: K Williamson Date Analyzed: 6/14/19

New Haven, CT

Lab Supervisor Print: K Williamson Signature: K Williamson Date Issued: 6/14/19

Contact/Name: M. Kearney Phone: Rotometer No.: L-25 Date of Calibration: 5/20/19 Lab No. 53888

Relative Standard Deviation (Sr)		
Range Fibers/fields	Intra-lab Sr	Inter-lab Sr
<20/100	0.520	0.517
20.5 to 50/100	0.352	0.451
>50/100	0.295	0.387

Microscope No. 22002 Received in Lab for Analysis: ☐ QC Only: ☑

Sample Type: PCM ☒ TEM ☐ Other: _____ Analysis Method: NIOSH 7400 ☑ AHERA ☐ Other: _____
Issue 2 8/15/94 A rules

Type of Sample: 1. Background 2. Prep. 3. Work Area 4. Environmental 5. Personal 6. Clearance

Sample No.	107	108	109	110	111		
Sampling Location/Comments	Decon	Neg Air exhaust	Critical Barrier	SB	FB		
Type of Sample	1	1	1				
Pump Number	1	2	3				
Start Time/Stop Time	7:40 | 3:20	7:40 | 3:20	7:40 | 3:20				
Total Time (min)	460	460	460				
Flow Rate	3 | 3	3 | 3	3 | 3				
Total Volume (l)	1380	1380	1380				
FB __ BFB FL BFL	4/100	6/100	3/100	0/100	2/100		
Filter Fiber Conc. (fibers/mm²)	5.09	7.64	3.82	-	-		
Airborne Fiber Conc. (fibers/cc)	ND<0.0012	0.002	ND<0.0012	-	-		

STANDARDS
<0.01 f/cc – EPA Re–Occupancy Clearance Criteria
0.10 f/cc – OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc – OSHA 30 min Excursion Level
ND< – Non Detected, less than the limit of detection
Limit of Detection – 5.5 fibers/100 fields

Relinquished by: Tyler MacGillivray Date 6/13/19 Time _____
Received By: K Williamson Date 6/14/19 Time 0800
Relinquished by: _____ Date _____ Time _____
Received by Laboratory: _____ Date _____ Time _____

TRC Laboratory Asbestos Analytical Certifications:
AZ # AZ0944 CT#PH–0426 HI # L-09-004 LA #05011 MA # AA000052
ME # LA–0075 NJ # CT004 NY # 10980 RI # AAL–007
TX # 300354 VA # 3333000283 VT # AL910359 WV # LT000597
Philadelphia # 461 AIHA IHLAP # 100122 AIHA PAT# 100122

Condition of Samples: Acceptable: Y ✓ N _____
Comments: _____
AIHA Registry Programs Asbestos Analyst Registry
Organization ID: 100122

Results relate only to the samples tested, as received by the laboratory. Verifiability of the laboratory's results is limited to the FB/mm².

QC Recount

Sample No.	FB/FL	Analyst/Date	Field/Lab

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Windsor, CT 06095 860-298-9692

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AIR SAMPLE ANALYSIS REPORT

Project No.: 263951.00028.0001 Date: 5/30/19 Page 22 of 22

Client: UI

Sampler Print: Tyler MacGillivray Signature: Tyler MacGillivray Date: 5/30/19

Site: ES Station B East Offices

Analyst Print: Tyler MacGillivray AAR ID: Signature: Tyler MacGillivray Date Analyzed: 5/31/19

Address: 510 Grand Ave New Haven CT

QC Analyst Print: K Williamson Signature: K Williamson Date Analyzed: 6/14/19

Lab Supervisor Print: K Williamson Signature: K Williamson Date Issued: 6/14/19

Contact/Name: M. Kearney Phone:

Rotometer No.: L-25 Date of Calibration: 5/22/19 Lab No. 53888

Microscope No. 22002 Received in Lab for Analysis: ☐ QC Only: ☒

Sample Type: PCM ☒ TEM ☐ Other: Analysis Method: NIOSH 7400 ☐ AHERA ☐ Other:
Issue 2 8/15/94 A rules

Type of Sample: 1. Background 2. Prep. 3. Work Area 4. Environmental 5. Personal 6. Clearance

Relative Standard Deviation (Sr)		
Range Fibers/fields	Intra-lab Sr	Inter-lab Sr
<20/100	0.520	0.517
20.5 to 50/100	0.352	0.451
>50/100	0.295	0.387

Sample No.	112	113	114	115	116		
Sampling Location/Comments	Decon Entrance	Neg Air exhaust	Critical Barrier	FB	SB		
Type of Sample	1	1	1				
Pump Number	1	2	3				
Start Time/Stop Time	7:45 | 3:30	7:45 | 3:30	7:45 | 3:30				
Total Time (min)	465	465	465				
Flow Rate	3 | 3	3 | 3	3 | 3				
Total Volume (l)	1395	1395	1395				
FB __ BFB FL BFL	6/100	4/100	8/100	0/100	0/100		
Filter Fiber Conc. (fibers/mm²)	7.64	5.09	10.19	-	-		
Airborne Fiber Conc. (fibers/cc)	0.002	ND<0.0012	0.0023	-	-		

STANDARDS
<0.01 f/cc – EPA Re–Occupancy Clearance Criteria
0.10 f/cc – OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc – OSHA 30 min Excursion Level
ND< – Non Detected, less than the limit of detection
Limit of Detection – 5.5 fibers/100 fields

Relinquished by: Tyler MacGillivray Date 6/13/19 Time
Received By: Date 6/14/19 Time 0800
Relinquished by: Date Time
Received by Laboratory: Date Time

TRC Laboratory Asbestos Analytical Certifications:
AZ # AZ0944 CT#PH–0426 HI # L-09-004 LA #05011 MA # AA000052
ME # LA–0075 NJ # CT004 NY # 10980 RI # AAL–007
TX # 300354 VA # 3333000283 VT # AL910359 WV # LT000597
Philadelphia # 461 AIHA IHLAP # 100122 AIHA PAT# 100122

Condition of Samples:
Acceptable: Y ✓ N
Comments:
AIHA Registry Programs Asbestos Analyst Registry
Organization ID: 100122

Results relate only to the samples tested, as received by the laboratory. Verifiability of the laboratory's results is limited to the FB/mm².

QC Recount

Sample No.	FB/FL	Analyst/Date	Field/Lab
112	5/100	6/14/19	Lab

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AIR SAMPLE ANALYSIS REPORT

Project No.: 263951.00028.0001 Date: 5/31/19 Page 23 of 23

Client: UI

Sampler Print: Tyler MacGillivray Signature: Tyler MacGillivray Date: 5/31/19

Site: ES Station B

Analyst Print: Tyler MacGillivray AAR ID: Signature: Tyler MacGillivray Date Analyzed:

Address: 50 Grand Ave

QC Analyst Print: K Williamson Signature: Date Analyzed: 6/14/19

New Haven, CT

Lab Supervisor Print: K Williamson Signature: Date Issued: 6/14/19

Contact/Name: Phone: Rotometer No.: L-25 Date of Calibration: 5/20/19 Lab No. 53588

Microscope No. 22002 Received in Lab for Analysis: ☐ QC Only: ☒

Relative Standard Deviation (Sr)		
Range Fibers/fields	Intra-lab Sr	Inter-lab Sr
<20/100	0.520	0.517
20.5 to 50/100	0.352	0.451
>50/100	0.295	0.387

Sample Type: PCM ☒ TEM ☐ Other: Analysis Method: NIOSH 7400 ☒ AHERA ☐ Other:
Issue 2 8/15/94 A rules

Type of Sample: 1. Background 2. Prep. 3. Work Area 4. Environmental 5. Personal 6. Clearance

Sample No.	117	118	119	120	121	122	123
Sampling Location/Comments	Mezzanine North	Mezzanine East	SB	FB	EO Decon	EO Neg Air	EO Critical
Type of Sample	1	1	1	1	1	1	1
Pump Number	1	2			3	4	5
Start Time/Stop Time	8:00 | 9:40	8:00 | 9:40			8:15 | 3:05	8:15 | 3:05	8:15 | 3:05
Total Time (min)	100	100			410	410	410
Flow Rate	3 | 3	3 | 3			3 | 3	3 | 3	3 | 3
Total Volume (l)	300	306			1230	1230	1230
FB — BFB / FL — BFL	3/100	5/100	0/100	0/100	6/100	7/100	4/100
Filter Fiber Conc. (fibers/mm²)	3.82	6.36	—	—	7.64	8.91	5.09
Airborne Fiber Conc. (fibers/cc)	ND<0.0089 (VO)	ND<0.0092	—	—	0.002 ✓	0.0023 (VO)	ND<0.002

STANDARDS
<0.01 f/cc – EPA Re–Occupancy Clearance Criteria
0.10 f/cc – OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc – OSHA 30 min Excursion Level
ND< – Non Detected, less than the limit of detection
Limit of Detection – 5.5 fibers/100 fields

Relinquished by: Tyler MacGillivray Date 6/13/19 Time
Received By: Date 6/14/19 Time 0800
Relinquished by: Date Time
Received by Laboratory: Date Time

TRC Laboratory Asbestos Analytical Certifications:
AZ # AZ0944 CT#PH–0426 HI # L-09-004 LA #05011 MA # AA000052
ME # LA–0075 NJ # CT004 NY # 10980 RI # AAL–007
TX # 300354 VA # 3333000283 VT # AL910359 WV # LT000597
Philadelphia # 461 AIHA IHLAP # 100122 AIHA PAT# 100122

Condition of Samples: Acceptable: Y ✓ N
Comments:
AIHA Registry Programs Asbestos Analyst Registry
Organization ID: 100122

QC Recount

Sample No.	FB/FL	Analyst/Date	Field/Lab
122	6/100	K W 6/14/19	Lab

Results relate only to the samples tested, as received by the laboratory. Verifiability of the laboratory's results is limited to the FB/mm².

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AIR SAMPLE ANALYSIS REPORT

Project No.: 263951.00028.0001 Date: 5/31/19 Page 24 of 24

Client: UI

Sampler Print: Tyler Macmillan Cay Signature: Tyler Macmillan Cay Date: 5/31/19

Site: ES Station B Basement D6

Analyst Print: Tyler Macmillan Cay AAR ID: Signature: Tyler Macmillan Cay Date Analyzed: 6/3/19

Address: 510 Grand Ave
New Haven, CT

QC Analyst Print: K Williamson Signature: Date Analyzed: 6/14/19

Lab Supervisor Print: K Williamson Signature: Date Issued: 6/14/19

Contact/Name: M. Karney Phone:

Rotometer No.: L-25 Date of Calibration: 5/22/19 Lab No. 53888

Microscope No. 22002 Received in Lab for Analysis: ☐ QC Only: ☒

Sample Type: PCM ☒ TEM ☐ Other: _____ Analysis Method: NIOSH 7400 ☒ AHERA ☐ Other: _____
Issue 2 8/15/94 A rules

Type of Sample: 1. Background 2. Prep. 3. Work Area 4. Environmental 5. Personal 6. Clearance

Relative Standard Deviation (Sr)		
Range Fibers/fields	Intra-lab Sr	Inter-lab Sr
<20/100	0.520	0.517
20.5 to 50/100	0.352	0.451
>50/100	0.295	0.387

Sample No.	124	125						
Sampling Location/Comments	Basement D6 Con	Basement D6 Con						
Type of Sample	2	2						
Pump Number	1	2						
Start Time/Stop Time	1:29 3:10	1:29 3:10						
Total Time (min)	101	101						
Flow Rate	3 3	3 3						
Total Volume (l)	303	303						
FB __ BFB FL BFL	9/100	6/100						
Filter Fiber Conc. (fibers/mm²)	11.46	7.64						
Airborne Fiber Conc. (fibers/cc)	0.014 ✓	~~0.009~~ 0.010 (km)						

STANDARDS
<0.01 f/cc – EPA Re–Occupancy Clearance Criteria
0.10 f/cc – OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc – OSHA 30 min Excursion Level
ND< – Non Detected, less than the limit of detection
Limit of Detection – 5.5 fibers/100 fields

Relinquished by: Tyler Macmillan Cay Date 6/13/19 Time _____
Received By: K Williamson Date 6/14/19 Time 0800
Relinquished by: _____ Date _____ Time _____
Received by Laboratory: _____ Date _____ Time _____

TRC Laboratory Asbestos Analytical Certifications:
AZ # AZ0944 CT#PH–0426 HI # L-09-004 LA #05011 MA # AA000052
ME # LA–0075 NJ # CT004 NY # 10980 RI # AAL–007
TX # 300354 VA # 3333000283 VT # AL910359 WV # LT000597
Philadelphia # 461 AIHA IHLAP # 100122 AIHA PAT# 100122

Condition of Samples:
Acceptable: Y ✓ N ____
Comments: _____
AIHA Registry Programs Asbestos Analyst Registry
Organization ID: 100122

Results relate only to the samples tested, as received by the laboratory. Verifiability of the laboratory's results is limited to the FB/mm².

QC Recount

Sample No.	FB/FL	Analyst/Date	Field/Lab

TRC 21 Griffin Road North Windsor, CT 06095 860-298-9692

AIR SAMPLE ANALYSIS REPORT

Edition: August 2018
Supersedes Previous Edition

Page 25 of 25

Client: UI

Site: ES Station B DG #1

Address: 510 Grand Ave
New Haven, CT

Contact/Name: M Kearney Phone:

Project No.: 263951.00028.0001 Date: 6/13/19

Sampler Print: Tyler MacGillivray Signature: Tyler MacGillivray Date: 6/13/19

Analyst Print: Tyler MacGillivray AAR ID: Signature: Tyler MacGillivray Date Analyzed: 6/13/19

QC Analyst Print: K Williamson Signature: K Williamson Date Analyzed: 6/14/19

Lab Supervisor Print: K Williamson Signature: K Williamson Date Issued: 6/14/19

Rotometer No.: L-25 Date of Calibration: 5/29/19 Lab No. 53888

Microscope No. 22002 Received in Lab for Analysis: ☐ QC Only: ☒

Sample Type: PCM ☒ TEM ☐ Other: Analysis Method: NIOSH 7400 ☐ AHERA ☐ Other:
Issue 2 8/15/94 A rules

Type of Sample: 1. Background 2. Prep. 3. Work Area 4. Environmental 5. Personal 6. Clearance

Relative Standard Deviation (Sr)		
Range Fibers/fields	Intra-lab Sr	Inter-lab Sr
<20/100	0.520	0.517
20.5 to 50/100	0.352	0.451
>50/100	0.295	0.387

Sample No.	126	127	128	129	130	131	132
Sampling Location/Comments	East	West	North	South	Center	SB	FB
Type of Sample	6	6	6	6	6	6	6
Pump Number	1	2	3	4	5		
Start Time/Stop Time	10:50 | 12:10	10:50 | 12:10	10:50 | 12:10	10:50 | 12:10	10:50 | 12:10		
Total Time (min)	80	80	80	80	80		
Flow Rate	15 | 15	15 | 15	15 | 15	15 | 15	15 | 15		
Total Volume (l)	1200	1200	1200	1200	1200		
FB — BFB / FL — BFL	9/100	7/100	5/100	8/100	10/100	0/100	0/100
Filter Fiber Conc. (fibers/mm²)	11.46	8.91	6.36	10.19	12.73	-	-
Airborne Fiber Conc. (fibers/cc)	0.0074 (LQ)	0.0073	ND<0.002	0.003	0.004	-	-

STANDARDS
<0.01 f/cc – EPA Re-Occupancy Clearance Criteria
0.10 f/cc – OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc – OSHA 30 min Excursion Level
ND< – Non Detected, less than the limit of detection
Limit of Detection – 5.5 fibers/100 fields

Relinquished by: Tyler MacGillivray Date 6/13/19 Time
Received By: K Williamson Date 6/14/19 Time 0800
Relinquished by: Date Time
Received by Laboratory: Date Time

TRC Laboratory Asbestos Analytical Certifications:
AZ # AZ0944 CT#PH-0426 HI # L-09-004 LA #05011 MA # AA000052
ME # LA-0075 NJ # CT004 NY # 10980 RI # AAL-007
TX # 300354 VA # 3333000283 VT # AL910359 WV # LT000597
Philadelphia # 461 AIHA IHLAP # 100122 AIHA PAT# 100122
Results relate only to the samples tested, as received by the laboratory. Verifiability of the laboratory's results is limited to the FB/mm².

Condition of Samples:
Acceptable: Y ✓ N
Comments:
AIHA Registry Programs Asbestos Analyst Registry
Organization ID: 100122

QC Recount

Sample No.	FB/FL	Analyst/Date	Field/Lab

TRC 21 Griffin Road North Windsor, CT 06095 860-298-9692

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AIR SAMPLE ANALYSIS REPORT

Project No.: 263951.00028.0001 Date: 6/3/19 Page 26 of 26

Client: UI

Sampler Print: Tyler MacGillivray Signature: Tyler MacGillivray Date: 6/3/19

Site: ES Station B DG #2

Analyst Print: Tyler MacGillivray AAR ID: Signature: Tyler MacGillivray Date Analyzed: 6/3/19

Address: 510 Grand Ave. New Haven, CT

QC Analyst Print: K Williamson Signature: K Williamson Date Analyzed: 6/14/19

Lab Supervisor Print: K Williamson Signature: K Williamson Date Issued: 6/14/19

Contact/Name: M. Kearney Phone: Rotometer No.: H-41 Date of Calibration: Lab No. 53888

Microscope No. 22002 Received in Lab for Analysis: ☐ QC Only: ☒

Sample Type: PCM ☒ TEM ☐ Other: Analysis Method: NIOSH 7400 ☒ AHERA ☐ Other:
Issue 2 8/15/94 A rules

Type of Sample: 1. Background 2. Prep. 3. Work Area 4. Environmental 5. Personal 6. Clearance

Relative Standard Deviation (Sr)		
Range Fibers/fields	Intra-lab Sr	Inter-lab Sr
<20/100	0.520	0.517
20.5 to 50/100	0.352	0.451
>50/100	0.295	0.387

Sample No.	133	134	135	136	137		
Sampling Location/Comments	East	West	North	South	Center		
Type of Sample	6	6	6	6	6		
Pump Number	1	2	3	4	5		
Start Time/Stop Time	1:16 / 2:36	1:16 / 2:36	1:16 / 2:36	1:16 / 2:36	1:16 / 2:36		
Total Time (min)	80	80	80	80	80		
Flow Rate	15 / 15	15 / 15	15 / 15	15 / 15	15 / 15		
Total Volume (l)	1200	1200	1200	1200	1200		
FB ___ BFB FL BFL	6/100	11/100	8/100	4/100	7/100		
Filter Fiber Conc. (fibers/mm²)	7.64	14.01 (VD)	10.19	5.09	8.91		
Airborne Fiber Conc. (fibers/cc)	0.002	0.0034	0.003	NDL 0.002	0.0023		

STANDARDS
<0.01 f/cc – EPA Re–Occupancy Clearance Criteria
0.10 f/cc – OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc – OSHA 30 min Excursion Level
ND< – Non Detected, less than the limit of detection
Limit of Detection – 5.5 fibers/100 fields

Relinquished by: Tyler MacGillivray Date 6/13/19 Time
Received By: K Williamson Date 6/14/19 Time 0800
Relinquished by: Date Time
Received by Laboratory: Date Time

TRC Laboratory Asbestos Analytical Certifications:
AZ # AZ0944 CT#PH–0426 HI # L-09-004 LA #05011 MA # AA000052
ME # LA–0075 NJ # CT004 NY # 10980 RI # AAL–007
TX # 300354 VA # 3333000283 VT # AL910359 WV # LT000597
Philadelphia # 461 AIHA IHLAP # 100122 AIHA PAT# 100122

Condition of Samples: Acceptable: Y ✓ N
Comments:
AIHA Registry Programs Asbestos Analyst Registry Organization ID: 100122

Results relate only to the samples tested, as received by the laboratory. Verifiability of the laboratory's results is limited to the FB/mm².

QC Recount

Sample No.	FB/FL	Analyst/Date	Field/Lab
135	6/100	KW 6/14/19	Lab

TRC 21 Griffin Road North Windsor, CT 06095 860-298-9692

Edition: August 2018
Supersedes Previous Edition

AIR SAMPLE ANALYSIS REPORT

Project No.: 26351.00028.0001 Date: 6/13/19 Page 27 of 27

Client: UI

Sampler Print: Tyler MacGillivray Signature: Tyler MacGillivray Date: 6/13/19

Site: ES Station B DG #1 & #2

Analyst Print: Tyler MacGillivray AAR ID: Signature: Tyler MacGillivray Date Analyzed: 6/14/19

Address: 510 Grand Ave New Haven, CT

QC Analyst Print: K Williamson Signature: K Williamson Date Analyzed: 6/14/19

Lab Supervisor Print: K Williamson Signature: K Williamson Date Issued: 6/14/19

Contact/Name: M. Kearney Phone:

Rotometer No.: L-25 Date of Calibration: 5/20/19 Lab No. 53888

Microscope No. 22002 Received in Lab for Analysis: ☐ QC Only: ☒

Relative Standard Deviation (Sr)		
Range Fibers/fields	Intra-lab Sr	Inter-lab Sr
<20/100	0.520	0.517
20.5 to 50/100	0.352	0.451
>50/100	0.295	0.387

Sample Type: PCM ☒ TEM ☐ Other: _____ Analysis Method: NIOSH 7400 ☒ AHERA ☐ Other: _____
Issue 2 8/15/94 A rules

Type of Sample: 1. Background 2. Prep. 3. Work Area 4. Environmental 5. Personal 6. Clearance

Sample No.	138	134	140	141			
Sampling Location/Comments	Basement DG #1	Basement DG #2	SB	FB			
Type of Sample	1	1					
Pump Number	1	2					
Start Time/Stop Time	8:00 3:20	8:00 3:20					
Total Time (min)	440	440					
Flow Rate	3 3	3 3					
Total Volume (l)	1320	1320					
FB — BFB FL — BFL	8/100	12/100	0/100	0/100			
Filter Fiber Conc. (fibers/mm²)	10.19	15.28	-	-			
Airborne Fiber Conc. (fibers/cc)	0.0023 (VM)	0.004 ✓	-	-			

STANDARDS
<0.01 f/cc – EPA Re–Occupancy Clearance Criteria
0.10 f/cc – OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc – OSHA 30 min Excursion Level
ND< – Non Detected, less than the limit of detection
Limit of Detection – 5.5 fibers/100 fields

Relinquished by: Tyler MacGillivray Date 6/13/19 Time
Received By: K Williamson Date 6/14/19 Time 0800
Relinquished by: Date Time
Received by Laboratory: Date Time

TRC Laboratory Asbestos Analytical Certifications:
AZ # AZ0944 CT#PH–0426 HI # L-09-004 LA #05011 MA # AA000052
ME # LA–0075 NJ # CT004 NY # 10980 RI # AAL–007
TX # 300354 VA # 3333000283 VT # AL910359 WV # LT000597
Philadelphia # 461 AIHA IHLAP # 100122 AIHA PAT# 100122
Results relate only to the samples tested, as received by the laboratory. Verifiability of the laboratory's results is limited to the FB/mm².

Condition of Samples: Acceptable: Y ✓ N
Comments:
AIHA Registry Programs Asbestos Analyst Registry Organization ID: 100122

QC Recount

Sample No.	FB/FL	Analyst/Date	Field/Lab

TRC
21 Griffin Road North
Windsor, CT 06095 860-298-9692

Edition: August 2018
Supersedes Previous Edition

AIR SAMPLE ANALYSIS REPORT

Project No.: 263951.00028.0001 Date: 6/14/19 Page 28 of 28

Client: UI

Sampler Print: Tyler Mahlkuray Signature: Tyler Mahl Date: 6/14/19

Site: ES Station B roof Debris

Analyst Print: Tyler Mahlkuray AAR ID: Signature: Tyler Mahl Date Analyzed: 6/5/19

Address: 510 Grand Ave

QC Analyst Print: K Williamson Signature: K Williamson Date Analyzed: 6/14/19

New Haven, CT

Lab Supervisor Print: K Williamson Signature: K Williamson Date Issued: 6/14/19

Contact/Name: M. Kenny Phone:

Rotometer No.: L-25 Date of Calibration: 5/2019 Lab No. 53888

Microscope No. 22002 Received in Lab for Analysis: ☐ QC Only: ☒

Relative Standard Deviation (Sr)		
Range Fibers/fields	Intra-lab Sr	Inter-lab Sr
<20/100	0.520	0.517
20.5 to 50/100	0.352	0.451
>50/100	0.295	0.387

Sample Type: PCM ☒ TEM ☐ Other: Analysis Method: NIOSH 7400 ☒ AHERA ☐ Other:
Issue 2 8/15/94 A rules

Type of Sample: 1. Background 2. Prep. 3. Work Area 4. Environmental 5. Personal 6. Clearance

Sample No.	142	143	144	145	146	147	148
Sampling Location/Comments	Reg Area East	Reg Area South	Reg Area West	Kitchen Decon	Kitchen Critical	SB	FB
Type of Sample	1	1	1	1	1		
Pump Number	1	2	3	4	5		
Start Time/Stop Time	7:45 | 3:25	7:45 | 3:25	7:45 | 3:25	12:00 | 3:25	12:00 | 3:25		
Total Time (min)	460	460	460	205	205		
Flow Rate	3 | 3	3 | 3	3 | 3	3 | 3	3 | 3		
Total Volume (l)	1380	1380	1380	615	615		
FB __ BFB FL BFL	3/100	6/100	5/100	1/100	3/100	0/100	0/100
Filter Fiber Conc. (fibers/mm²)	3.82	7.64	6.36	5.09	3.82	-	-
Airborne Fiber Conc. (fibers/cc)	ND<0.002	0.002	ND<0.002	ND<0.004	ND<0.004	-	-

STANDARDS
<0.01 f/cc – EPA Re–Occupancy Clearance Criteria
0.10 f/cc – OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc – OSHA 30 min Excursion Level
ND< – Non Detected, less than the limit of detection
Limit of Detection – 5.5 fibers/100 fields

Relinquished by: Tyler Mahl Date 6/13/19 Time
Received By: Date 6/14/19 Time 0800
Relinquished by: Date Time
Received by Laboratory: Date Time

TRC Laboratory Asbestos Analytical Certifications:
AZ # AZ0944 CT#PH–0426 HI # L-09-004 LA #05011 MA # AA000052
ME # LA–0075 NJ # CT004 NY # 10980 RI # AAL–007
TX # 300354 VA # 3333000283 VT # AL910359 WV # LT000597
Philadelphia # 461 AIHA IHLAP # 100122 AIHA PAT# 100122

Condition of Samples:
Acceptable: Y ✓ N
Comments:
AIHA Registry Programs Asbestos Analyst Registry
Organization ID: 100122

Results relate only to the samples tested, as received by the laboratory. Verifiability of the laboratory's results is limited to the FB/mm².

QC Recount

Sample No.	FB/FL	Analyst/Date	Field/Lab
143	5/100	K Williamson 6/14/19	Lab

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AIR SAMPLE ANALYSIS REPORT

Project No.: 263451.00028.0001 Date: 6/5/19 Page 29 of 29

Client: UI

Sampler Print: Tyler Macwilliams Signature: Tyler Mac Date: 6/5/19

Site: ES Station B roof Debris

Analyst Print: Tyler Macwilliams AAR ID: Signature: Tyler Mac Date Analyzed: 6/6/19

Address: 510 Grand Ave

QC Analyst Print: K Williamson Signature: K Date Analyzed: 6/14/19

New Haven, CT

Lab Supervisor Print: K Williamson Signature: K Date Issued: 6/14/19

Contact/Name: M. Kamey Phone:

Rotometer No.: 2-25 Date of Calibration: 5/20/19 Lab No. 53588

Microscope No. 22002 Received in Lab for Analysis: ☐ QC Only: ☒

Relative Standard Deviation (Sr)		
Range Fibers/fields	Intra-lab Sr	Inter-lab Sr
<20/100	0.520	0.517
20.5 to 50/100	0.352	0.451
>50/100	0.295	0.387

Sample Type: PCM ☒ TEM ☐ Other: Analysis Method: NIOSH 7400 ☒ AHERA ☐ Other: Issue 2 8/15/94 A rules

Type of Sample: (1. Background) 2. Prep. 3. Work Area 4. Environmental 5. Personal 6. Clearance

Sample No.	149	150	151	152	153	154	155
Sampling Location/Comments	Reg Area East	Reg Area south	Reg Area West	Kitchen Devon	Kitchen Critical	SB	FB
Type of Sample	1	1	1	1	1		
Pump Number	1	2	3	4	5		
Start Time/Stop Time	8:00 | 3:33	8:00 | 3:33	8:00 | 3:33	12:30 | 3:05	12:30 | 3:05		
Total Time (min)	453	453	453	155	155		
Flow Rate	3 | 3	3 | 3	3 | 3	3 | 3	3 | 3		
Total Volume (l)	1359	1359	1359	465	465		
FB __ BFB FL BFL	5/100	3/100	6/100	8/100	5/100	0/100	0/100
Filter Fiber Conc. (fibers/mm²)	6.36	3.82 (KW)	7.64 ✓	10.19 ✓	6.36	—	—
Airborne Fiber Conc. (fibers/cc)	ND<0.0012	ND<0.0012	0.002 ✓	0.008 ✓	nd <0.006 ~~0.005~~ (KW)	—	—

STANDARDS
<0.01 f/cc – EPA Re-Occupancy Clearance Criteria
0.10 f/cc – OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc – OSHA 30 min Excursion Level
ND< – Non Detected, less than the limit of detection
Limit of Detection – 5.5 fibers/100 fields

Relinquished by: Tyler Mac Date 6/13/19 Time
Received By: K Date 6/14/19 Time 0800
Relinquished by: Date Time
Received by Laboratory: Date Time

TRC Laboratory Asbestos Analytical Certifications:
AZ # AZ0944 CT#PH-0426 HI # L-09-004 LA #05011 MA # AA000052
ME # LA-0075 NJ # CT004 NY # 10980 RI # AAL-007
TX # 300354 VA # 3333000283 VT # AL910359 WV # LT000597
Philadelphia # 461 AIHA IHLAP # 100122 AIHA PAT# 100122

Condition of Samples:
Acceptable: Y ✓ N
Comments:
AIHA Registry Programs Asbestos Analyst Registry Organization ID: 100122

Results relate only to the samples tested, as received by the laboratory. Verifiability of the laboratory's results is limited to the FB/mm².

QC Recount

Sample No.	FB/FL	Analyst/Date	Field/Lab
152	6/100	K 6/14/19	Lab

TRC 21 Griffin Road North Windsor, CT 06095 860-298-9692

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AIR SAMPLE ANALYSIS REPORT

Project No.: 263951.00028.0001 Date: 6/6/19 Page 30 of 30

Client: UI

Sampler Print: Tyler MacGillivray Signature: Tyler MacGillivray Date: 6/6/19

Site: ES Station B

Analyst Print: Tyler MacGillivray AAR ID: Signature: Tyler MacGillivray Date Analyzed: 6/7/19

Address: 510 Grand Ave New Haven, CT

QC Analyst Print: K Williamson Signature: K Williamson Date Analyzed: 6/14/19

Lab Supervisor Print: K Williamson Signature: K Williamson Date Issued: 6/14/19

Contact/Name: M. Kearney Phone:

Rotometer No.: L-25 Date of Calibration: 5/29/19 Lab No. 53888

Microscope No. 22002 Received In Lab for Analysis: ☐ QC Only: ☑

Sample Type: PCM ☒ TEM ☐ Other: Analysis Method: NIOSH 7400 ☑ AHERA ☐ Other:
Issue 2 8/15/94 A rules

Type of Sample: 1. Background 2. Prep. 3. Work Area 4. Environmental 5. Personal 6. Clearance

Relative Standard Deviation (Sr)		
Range Fibers/fields	Intra-lab Sr	Inter-lab Sr
<20/100	0.520	0.517
20.5 to 50/100	0.352	0.451
>50/100	0.295	0.387

Sample No.	156	157	158	159	160	161	162
Sampling Location/Comments	Reg Area South	Reg Area East	Reg Area West	Kitchen Decon	Kitchen Critical	SB	FB
Type of Sample	1	1	1	1	1		
Pump Number	1	2	3	4	5		
Start Time/Stop Time	8:15 | 1:35	8:15 | 1:35	8:15 | 1:35	8:15 | 8:20	8:15 | 3:20		
Total Time (min)	320	320	320	425	425		
Flow Rate	3 | 3	3 | 3	3 | 3	3 | 3	3 | 3		
Total Volume (l)	960	960	960	1275	1275		
FB — BFB / FL — BFL	9/100	7/100	5/100	6/100	12/100	0/100	0/100
Filter Fiber Conc. (fibers/mm²)	11.46	8.91	6.36	7.64	15.29	—	—
Airborne Fiber Conc. (fibers/cc)	0.0045	0.0074	ND<0.0023	0.002 ✓	0.0045	—	—

STANDARDS
<0.01 f/cc – EPA Re-Occupancy Clearance Criteria
0.10 f/cc – OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc – OSHA 30 min Excursion Level
ND< – Non Detected, less than the limit of detection
Limit of Detection – 5.5 fibers/100 fields

Relinquished by: Tyler MacGillivray Date 6/13/19 Time
Received By: Date 6/14/19 Time 0800
Relinquished by: Date Time
Received by Laboratory: Date Time

TRC Laboratory Asbestos Analytical Certifications:
AZ # AZ0944 CT#PH-0426 HI # L-09-004 LA #05011 MA # AA000052
ME # LA-0075 NJ # CT004 NY # 10980 RI # AAL-007
TX # 300354 VA # 3333000283 VT # AL910359 WV # LT000597
Philadelphia # 461 AIHA IHLAP # 100122 AIHA PAT# 100122

Condition of Samples: Acceptable: Y ✓ N
Comments:
AIHA Registry Programs Asbestos Analyst Registry Organization ID: 100122

Results relate only to the samples tested, as received by the laboratory. Verifiability of the laboratory's results is limited to the FB/mm².

QC Recount

Sample No.	FB/FL	Analyst/Date	Field/Lab

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AIR SAMPLE ANALYSIS REPORT

Project No.: 263951.00028.0001 Date: 6/6/19 Page 31 of 31

Client: UI

Sampler Print: Tyler MacGillivray Signature: Tyler MacGillivray Date: 6/6/19

Site: ES Station B

Analyst Print: Tyler MacGillivray AAR ID: Signature: Tyler MacGillivray Date Analyzed: 6/7/19

Address: 50 Grand Ave

QC Analyst Print: K Williamson Signature: K Williamson Date Analyzed: 6/14/19

New Haven, CT

Lab Supervisor Print: K Williamson Signature: K Williamson Date Issued: 6/14/19

Contact/Name: M. Karney Phone: Rotometer No.: L-25 Date of Calibration: 5/20/19 Lab No. 53888

Microscope No. 22002 Received in Lab for Analysis: ☐ QC Only: ☒

Sample Type: PCM ☒ TEM ☐ Other: Analysis Method: NIOSH 7400 ☒ AHERA ☐ Other:
Issue 2 8/15/94 A rules

Type of Sample: 1. Background 2. Prep. 3. Work Area 4. Environmental 5. Personal 6. Clearance

Relative Standard Deviation (Sr)		
Range Fibers/fields	Intra-lab Sr	Inter-lab Sr
<20/100	0.520	0.517
20.5 to 50/100	0.352	0.451
>50/100	0.295	0.387

Sample No.	163	164						
Sampling Location/Comments	NW Reg Area2	NE Reg Area2						
Type of Sample	1	1						
Pump Number	1	2						
Start Time/Stop Time	1:40 | 3:05	1:40 | 3:05						
Total Time (min)	85	85						
Flow Rate	3 | 3	3 | 3						
Total Volume (l)	255	255						
FB __ BFB FL BFL	5/100	3/100						
Filter Fiber Conc. (fibers/mm²)	6.36 (KW)	3.82						
Airborne Fiber Conc. (fibers/cc)	ND< 0.011 ~~0.009~~	ND< 0.011 0.005 (KW)						

STANDARDS
<0.01 f/cc – EPA Re-Occupancy Clearance Criteria
0.10 f/cc – OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc – OSHA 30 min Excursion Level
ND< – Non Detected, less than the limit of detection
Limit of Detection – 5.5 fibers/100 fields

Relinquished by: Tyler MacGillivray Date 6/13/19 Time
Received By: K Williamson Date 6/14/19 Time 0800
Relinquished by: Date Time
Received by Laboratory: Date Time

TRC Laboratory Asbestos Analytical Certifications:
AZ # AZ0944 CT#PH-0426 HI # L-09-004 LA #05011 MA # AA000052
ME # LA-0075 NJ # CT004 NY # 10980 RI # AAL-007
TX # 300354 VA # 3333000283 VT # AL910359 WV # LT000597
Philadelphia # 461 AIHA IHLAP # 100122 AIHA PAT# 100122

Condition of Samples: Acceptable: Y ✓ N
Comments:
AIHA Registry Programs Asbestos Analyst Registry Organization ID: 100122

Results relate only to the samples tested, as received by the laboratory. Verifiability of the laboratory's results is limited to the FB/mm².

QC Recount

Sample No.	FB/FL	Analyst/Date	Field/Lab
163	4/100	KW 6/14/19	Lab

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AIR SAMPLE ANALYSIS REPORT

Project No.: 263951.00028.0001 Date: 6/7/19 Page 32 of 32

Client: UI

Sampler Print: Tyler MacGillivray Signature: [signature] Date: 6/7/19

Site: ES Station 13 AAR ID:

Analyst Print: Tyler MacGillivray Signature: [signature] Date Analyzed: 6/7/19

Address: 510 Grand Ave. New Haven, CT

QC Analyst Print: K. Williamson Signature: [signature] Date Analyzed: 6/14/19

Lab Supervisor Print: K. Williamson Signature: [signature] Date Issued: 6/14/19

Contact/Name: M. Kearney Phone: Rotometer No.: L-25 Date of Calibration: 5/20/19 Lab No. 53888

Microscope No. 22002 Received in Lab for Analysis: ☐ QC Only: ☒

Sample Type: PCM ☒ TEM ☐ Other: Analysis Method: NIOSH 7400 ☒ AHERA ☐ Other:
Issue 2 8/15/94 A rules

Type of Sample: 1. Background 2. Prep. 3. Work Area 4. Environmental 5. Personal 6. Clearance

Relative Standard Deviation (Sr)		
Range Fibers/fields	Intra-lab Sr	Inter-lab Sr
<20/100	0.520	0.517
20.5 to 50/100	0.352	0.451
>50/100	0.295	0.387

Sample No.	165	166	167	168	169	170	171
Sampling Location/Comments	Reg Area Int	Reg area West	Reg area South	Kitchen Decon	kitchen critical	SB	FB
Type of Sample	1	1	1	1	1		
Pump Number	1	2	3	4	5		
Start Time/Stop Time	8:00 | 3:00	8:00 | 3:00	8:00 | 3:00	8:00 | 3:00	8:00 | 3:00		
Total Time (min)	420	420	420	420	420		
Flow Rate	3 | 3	3 | 3	3 | 3	3 | 3	3 | 3		
Total Volume (l)	1260	1260	1260	1260	1260		
FB — BFB / FL — BFL	7/100	14/100	10/100	6/100	5/100	0/100	0/100
Filter Fiber Conc. (fibers/mm²)	8.91	17.83	12.73	7.64	6.36	—	—
Airborne Fiber Conc. (fibers/cc)	0.0073 (V)	0.005 ✓	0.004 ✓	0.002 ✓	ND<0.002 ✓	—	—

STANDARDS
<0.01 f/cc – EPA Re–Occupancy Clearance Criteria
0.10 f/cc – OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc – OSHA 30 min Excursion Level
ND< – Non Detected, less than the limit of detection
Limit of Detection – 5.5 fibers/100 fields

Relinquished by: [signature] Date 6/13/19 Time
Received By: [signature] Date 6/14/19 Time 0850
Relinquished by: Date Time
Received by Laboratory: Date Time

TRC Laboratory Asbestos Analytical Certifications:
AZ # AZ0944 CT#PH–0426 HI # L-09-004 LA #05011 MA # AA000052
ME # LA–0075 NJ # CT004 NY # 10980 RI # AAL–007
TX # 300354 VA # 3333000283 VT # AL910359 WV # LT000597
Philadelphia # 461 AIHA IHLAP # 100122 AIHA PAT# 100122

Condition of Samples:
Acceptable: Y ✓ N
Comments:
AIHA Registry Programs Asbestos Analyst Registry
Organization ID: 100122

Results relate only to the samples tested, as received by the laboratory. Verifiability of the laboratory's results is limited to the FB/mm².

QC Recount

Sample No.	FB/FL	Analyst/Date	Field/Lab

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Edition: August 2018
Supersedes Previous Edition

AIR SAMPLE ANALYSIS REPORT

Project No.: 263951.00028.0001 Date: 6/10/19 Page 33 of 33

Client: UI

Sampler Print: Tyler MacMurray Signature: Tyler MacMurray Date: 6/10/19

Site: ES Station B Kitchen

Analyst Print: Tyler MacMurray AAR ID: Signature: Tyler MacMurray Date Analyzed: 6/10/19

Address: 510 Grand Ave
New Haven, CT

QC Analyst Print: K Williamson Signature: K Williamson Date Analyzed: 6/14/19

Lab Supervisor Print: K Williamson Signature: K Williamson Date Issued: 6/14/19

Contact/Name: M. Karney Phone:

Rotometer No.: HL-25 Date of Calibration: Lab No. 53888

Microscope No. 22002 Received In Lab for Analysis: ☐ QC Only: ☒

Sample Type: PCM ☒ TEM ☐ Other: Analysis Method: NIOSH 7400 ☒ AHERA ☐ Other:
Issue 2 8/15/94 A rules

Type of Sample: 1. Background 2. Prep. 3. Work Area 4. Environmental 5. Personal 6. Clearance

Relative Standard Deviation (Sr)		
Range Fibers/fields	Intra-lab Sr	Inter-lab Sr
<20/100	0.520	0.517
20.5 to 50/100	0.352	0.451
>50/100	0.295	0.387

Sample No.	172	173	174	175	176	177	178
Sampling Location/Comments	East	West	North	South	Center	SB	FB
Type of Sample	6	6	6	6	6		
Pump Number	1	2	3	4	5		
Start Time/Stop Time	8:34 | 9:54	8:34 | 9:54	8:34 | 9:54	8:34 | 9:54	8:34 | 9:54		
Total Time (min)	80	80	80	80	80		
Flow Rate	15 | 15	15 | 15	15 | 15	15 | 15	15 | 15		
Total Volume (l)	1200	1200	1200	1200	1200		
FB — BFB / FL — BFL	10/100	11/100	9/100	5/100	7/100	0/100	0/100
Filter Fiber Conc. (fibers/mm²)	12.73	14.01	11.46	6.36	8.91	—	—
Airborne Fiber Conc. (fibers/cc)	0.004	0.004	0.003 4 (Dup)	ND<0.002	0.002 3 (Dup)	—	—

STANDARDS
<0.01 f/cc – EPA Re–Occupancy Clearance Criteria
0.10 f/cc – OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc – OSHA 30 min Excursion Level
ND< – Non Detected, less than the limit of detection
Limit of Detection – 5.5 fibers/100 fields

Relinquished by: Tyler MacMurray Date 6/13/19 Time
Received By: K Williamson Date 6/14/19 Time 0800
Relinquished by: Date Time
Received by Laboratory: Date Time

TRC Laboratory Asbestos Analytical Certifications:
AZ # AZ0944 CT#PH–0426 HI # L-09-004 LA #05011 MA # AA000052
ME # LA–0075 NJ # CT004 NY # 10980 RI # AAL–007
TX # 300354 VA # 3333000283 VT # AL910359 WV # LT000597
Philadelphia # 461 AIHA IHLAP # 100122 AIHA PAT# 100122

Condition of Samples:
Acceptable: Y ✓ N
Comments:
AIHA Registry Programs Asbestos Analyst Registry Organization ID: 100122

Results relate only to the samples tested, as received by the laboratory. Verifiability of the laboratory's results is limited to the FB/mm².

QC Recount

Sample No.	FB/FL	Analyst/Date	Field/Lab
173	9/100	KW 6/14/19	Lab

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Edition: August 2018
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AIR SAMPLE ANALYSIS REPORT

Project No.: 263951.00028.0001 Date: 6/10/19 Page 34 of 34

Client: UI

Sampler Print: Tyler MacMurray Signature: Tyler MacMurray Date: 6/10/19

Site: ES Station B West Side Windows AAR ID:

Analyst Print: Tyler MacMurray Signature: Tyler MacMurray Date Analyzed: 6/10/19

Address: 510 Grand Ave New Haven, CT

QC Analyst Print: Lee Williamson Signature: Lee Williamson Date Analyzed: 6/14/19

Lab Supervisor Print: Lee Williamson Signature: Lee Williamson Date Issued: 6/14/19

Contact/Name: M. Kearney Phone: Rotometer No.: L-25 Date of Calibration: 5/20/19 Lab No. 63888

Microscope No. 22002 Received in Lab for Analysis: ☐ QC Only: ☑

Sample Type: PCM ☒ TEM ☐ Other: Analysis Method: NIOSH 7400 ☒ AHERA ☐ Other:
Issue 2 8/15/94 A rules

Type of Sample: 1. Background 2. Prep. 3. Work Area 4. Environmental 5. Personal 6. Clearance

Relative Standard Deviation (Sr)		
Range Fibers/fields	Intra-lab Sr	Inter-lab Sr
<20/100	0.520	0.517
20.5 to 50/100	0.352	0.451
>50/100	0.295	0.387

Sample No.	179	180	181				
Sampling Location/Comments	Reg Area Int	Reg Area West	Reg Area South				
Type of Sample	1	1	1				
Pump Number	1	2	3				
Start Time/Stop Time	9:00 | 3:15	9:00 | 3:15	9:00 | 3:15				
Total Time (min)	375	375	375				
Flow Rate	3 | 3	3 | 3	3 | 3				
Total Volume (l)	1125	1125	1125				
FB — BFB FL — BFL	8/100	3/100	5/100				
Filter Fiber Conc. (fibers/mm²)	10.14	3.82	6.36				
Airborne Fiber Conc. (fibers/cc)	0.003	ND<0.002	ND<0.002				

STANDARDS
<0.01 f/cc – EPA Re–Occupancy Clearance Criteria
0.10 f/cc – OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc – OSHA 30 min Excursion Level
ND< – Non Detected, less than the limit of detection
Limit of Detection – 5.5 fibers/100 fields

Relinquished by: Tyler MacMurray Date 6/13/19 Time
Received By: Lee Williamson Date 6/14/19 Time 0830
Relinquished by: Date Time
Received by Laboratory: Date Time

TRC Laboratory Asbestos Analytical Certifications:
AZ # AZ0944 CT#PH–0426 HI # L-09-004 LA #05011 MA # AA000052
ME # LA–0075 NJ # CT004 NY # 10980 RI # AAL–007
TX # 300354 VA # 3333000283 VT # AL910359 WV # LT000597
Philadelphia # 461 AIHA IHLAP # 100122 AIHA PAT# 100122

Condition of Samples: Acceptable: Y ✓ N
Comments:
AIHA Registry Programs Asbestos Analyst Registry Organization ID: 100122

Results relate only to the samples tested, as received by the laboratory. Verifiability of the laboratory's results is limited to the FB/mm².

QC Recount

Sample No.	FB/FL	Analyst/Date	Field/Lab

3 hr TAT

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AIR SAMPLE ANALYSIS REPORT

Project No.: 263951.00028.0001 Date: 6/11/19 Page 35 of 35

Client: UI

Sampler Print: Tyler Macgillivray Signature: Tyler Macgillivray Date: 6/11/19

Site: ES Station B West side

AAR ID:

Analyst Print: _____ Signature: _____ Date Analyzed: _____

Address: 510 Grand Ave New Haven, CT

QC Analyst Print: _____ Signature: _____ Date Analyzed: _____

Lab Supervisor Print: _____ Signature: _____ Date Issued: _____

Contact/Name: M. Kearney Phone: 860-840-4525 Rotometer No.: L-25 Date of Calibration: _____ Lab No. 53888

Relative Standard Deviation (Sr)		
Range Fibers/fields	Intra-lab Sr	Inter-lab Sr
<20/100	0.520	0.517
20.5 to 50/100	0.352	0.451
>50/100	0.295	0.387

Microscope No. _____ Received in Lab for Analysis: ☐ QC Only: ~~☒~~

Sample Type: PCM ☐ TEM ~~☒~~ Other: _____ Analysis Method: NIOSH 7400 ☒ AHERA ☐ Other: TEM 7402 Issue 2 8/15/94 A rules

Type of Sample: (1. Background) 2. Prep. 3. Work Area 4. Environmental 5. Personal 6. Clearance

Sample No.	182	183	184				
Sampling Location/Comments	Reg Area Int	Reg area South	Reg Area West				
Type of Sample	1	1	1				
Pump Number	1	2	3				
Start Time/Stop Time	7:50 | 3:20	7:50 | 3:20	7:50 | 3:20				
Total Time (min)	450	450	450				
Flow Rate	3 | 3	3 | 3	3 | 3				
Total Volume (l)	1350	1350	1350				
FB __ BFB FL BFL	48/100	52/100	56/100				
Filter Fiber Conc. (fibers/mm²)	61.14	66.24	71.33				
Airborne Fiber Conc. (fibers/cc)	0.017 ✓	0.018 ✓	0.020 ✓				

RECEIVED
JUN 12 2019
By DG 10:05am
W2

STANDARDS
<0.01 f/cc – EPA Re-Occupancy Clearance Criteria
0.10 f/cc – OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc – OSHA 30 min Excursion Level
ND< – Non Detected, less than the limit of detection
Limit of Detection – 5.5 fibers/100 fields

Relinquished by: Tyler Macgillivray Date 6/12/19 Time 10:05
Received By: _____ Date 6/14/19 Time 0800
Relinquished by: _____ Date _____ Time _____
Received by Laboratory: _____ Date _____ Time _____

TRC Laboratory Asbestos Analytical Certifications:
AZ # AZ0944 CT#PH-0426 HI # L-09-004 LA #05011 MA # AA000052
ME # LA-0075 NJ # CT004 NY # 10980 RI # AAL-007
TX # 300354 VA # 3333000283 VT # AL910359 WV # LT000597
Philadelphia # 461 AIHA IHLAP # 100122 AIHA PAT# 100122
Results relate only to the samples tested, as received by the laboratory. Verifiability of the laboratory's results is limited to the FB/mm².

Condition of Samples:
Acceptable: Y ✓ N _____
Comments: _____
AIHA Registry Programs Asbestos Analyst Registry
Organization ID: 100122

QC Recount

Sample No.	FB/FL	Analyst/Date	Field/Lab

Email results to MKearney@trccompanies.com / Tmacgillivray@trcccompanies.com

Analyze 182 and 184 hold 183 for further instructions

3hr TAT

TRC 21 Griffin Road North Windsor, CT 06095 860-298-9692

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Supersedes Previous Edition

AIR SAMPLE ANALYSIS REPORT

Project No.: 263951.00028.0001 Date: 6/12/19 Page 36 of 36

Client: UI

Sampler Print: Tyler MacMurray Signature: Tyler MacMurray Date: 6/13/19

Site: ES Station B

Analyst Print: Tyler MacMurray AAR ID: Signature: Tyler MacMurray Date Analyzed: 6/13/19

Address: 510 Grand Ave New Haven, CT

QC Analyst Print: K Williamson Signature: K Williamson Date Analyzed: 6/14/19

Lab Supervisor Print: K Williamson Signature: K Williamson Date Issued: 6/14/19

Contact/Name: M. Kearney Phone:

Rotometer No.: L25 Date of Calibration: 5/29/19 Lab No. 53888

Relative Standard Deviation (Sr)		
Range Fibers/fields	Intra-lab Sr	Inter-lab Sr
<20/100	0.520	0.517
20.5 to 50/100	0.352	0.451
>50/100	0.295	0.387

Microscope No. 22052 Received in Lab for Analysis: ☐ QC Only: ☒

Sample Type: PCM ☒ TEM ☐ Other: Analysis Method: NIOSH 7400 ☒ AHERA ☐ Other:
Issue 2 8/15/94 A rules

Type of Sample: 1. Background 2. Prep. 3. Work Area 4. Environmental 5. Personal 6. Clearance

Sample No.	182	183	184	185	186	187	188
Sampling Location/Comments	Reg Area South	Reg Area Int	Reg Area West	NW side of Grand Ave	NE side of Grand Ave	FB	SB
Type of Sample	1	1	1	1	1		
Pump Number	1	2	3	4	5		
Start Time/Stop Time	8:30 | 3:20	8:30 | 3:20	8:30 | 3:20	12:36 | 3:20	12:36 | 3:20		
Total Time (min)	410	410	410	164	164		
Flow Rate	3 | 3	3 | 3	3 | 3	3 | 3	3 | 3		
Total Volume (l)	1230	1230	1230	492	492		
FB — BFB FL — BFL	6/100	4/100	8/100	5/100	20/100	0/100	0/100
Filter Fiber Conc. (fibers/mm²)	7.64	5.09	10.19 ✓	6.39	25.47	—	—
Airborne Fiber Conc. (fibers/cc)	0.002 ✓	ND< 0.002 ✓	0.003 ✓	ND< 0.005 ✓	0.019 → 0.020 (Dw)	—	—

STANDARDS
<0.01 f/cc – EPA Re–Occupancy Clearance Criteria
0.10 f/cc – OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc – OSHA 30 min Excursion Level
ND< – Non Detected, less than the limit of detection
Limit of Detection – 5.5 fibers/100 fields

Relinquished by: Tyler MacMurray Date 6/13/19 Time
Received By: Date 6/14/19 Time 0800
Relinquished by: Date Time
Received by Laboratory: Date Time

TRC Laboratory Asbestos Analytical Certifications:
AZ # AZ0944 CT#PH–0426 HI # L-09-004 LA #05011 MA # AA000052
ME # LA–0075 NJ # CT004 NY # 10980 RI # AAL–007
TX # 300354 VA # 3333000283 VT # AL910359 WV # LT000597
Philadelphia # 461 AIHA IHLAP # 100122 AIHA PAT# 100122

Condition of Samples: ✓
Acceptable: Y ✓ N
Comments:
AIHA Registry Programs Asbestos Analyst Registry Organization ID: 100122

Results relate only to the samples tested, as received by the laboratory. Verifiability of the laboratory's results is limited to the FB/mm².

QC Recount

Sample No.	FB/FL	Analyst/Date	Field/Lab
183	3/100	KW 6/14/19	Lab

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AIR SAMPLE ANALYSIS REPORT

Project No.: 263951.00028.0061 Date: 6/13/19 Page 37 of 37

Client: UI

Sampler Print: Tyler MacGillivray Signature: Tyler MacG Date: 6/13/19

Site: ES Station B West Side Windows

Analyst Print: Tyler MacGillivray AAR ID: Signature: Tyler MacG Date Analyzed: 6/13/19

Address: 510 Grand Ave New Haven, CT

QC Analyst Print: K Williamson Signature: K Williamson Date Analyzed: 6/28/19

Lab Supervisor Print: K Williamson Signature: K Williamson Date Issued: 6/28/19

Contact/Name: M. Kearney Phone:

Rotometer No.: L-25 Date of Calibration: 5/20/19 Lab No. 53948

Microscope No. 22002 Received in Lab for Analysis: ☐ QC Only: ☒

Relative Standard Deviation (Sr)		
Range Fibers/fields	Intra-lab Sr	Inter-lab Sr
<20/100	0.520	0.517
20.5 to 50/100	0.352	0.451
>50/100	0.295	0.387

Sample Type: PCM ☒ TEM ☐ Other: Analysis Method: NIOSH 7400 ☒ AHERA ☐ Other:
Issue 2 8/15/94 A rules

Type of Sample: 1. Background 2. Prep. 3. Work Area 4. Environmental 5. Personal 6. Clearance

Sample No.	189	190	191	192	193		
Sampling Location/Comments	West Windows Reg South	West Windows Reg West	West Windows Reg Area Int	FB	SB		
Type of Sample	1	1	1				
Pump Number	1	2	3				
Start Time/Stop Time	8:05 | 3:26	8:05 | 3:26	8:05 | 3:26				
Total Time (min)	441	441	441				
Flow Rate	3 | 3	3 | 3	3 | 3				
Total Volume (l)	1323	1323	1323				
FB __ BFB FL BFL	8/100	8/100	6/100	0/100	0/100		
Filter Fiber Conc. (fibers/mm²)	10.19	10.19	7.64	-	-		
Airborne Fiber Conc. (fibers/cc)	0.0073 ✓	0.0073	0.002 ✓	-	-		

STANDARDS
<0.01 f/cc – EPA Re–Occupancy Clearance Criteria
0.10 f/cc – OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc – OSHA 30 min Excursion Level
ND< – Non Detected, less than the limit of detection
Limit of Detection – 5.5 fibers/100 fields

Relinquished by: Tyler MacGillivray Date 6/26/19 Time 17:00
Received By: Date 6/27/19 Time 0900
Relinquished by: Date Time
Received by Laboratory: Date Time

TRC Laboratory Asbestos Analytical Certifications:
AZ # AZ0944 CT#PH–0426 HI # L-09-004 LA #05011 MA # AA000052
ME # LA–0075 NJ # CT004 NY # 10980 RI # AAL–007
TX # 300354 VA # 3333000283 VT # AL910359 WV # LT000597
Philadelphia # 461 AIHA IHLAP # 100122 AIHA PAT# 100122
Results relate only to the samples tested, as received by the laboratory. Verifiability of the laboratory's results is limited to the FB/mm².

Condition of Samples:
Acceptable: Y ✓ N
Comments:
AIHA Registry Programs Asbestos Analyst Registry
Organization ID: 100122

QC Recount

Sample No.	FB/FL	Analyst/Date	Field/Lab

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AIR SAMPLE ANALYSIS REPORT

Project No.: 263951.00029.0001 Date: 6/14/19 Page 38 of 38

Client: UI

Sampler Print: Tyler MacMurray Signature: Tyler MacMurray Date: 6/14/19

Site: ES Station B North Windows

Analyst Print: Tyler MacMurray AAR ID: Signature: Tyler MacMurray Date Analyzed: 6/14/19

Address: 50 Grand Ave New Haven, CT

QC Analyst Print: K Williamson Signature: K Williamson Date Analyzed: 6/28/19

Lab Supervisor Print: K Williamson Signature: K Williamson Date Issued: 6/28/19

Contact/Name: M. Korney Phone:

Rotometer No.: L-25 Date of Calibration: 5/20/19 Lab No. 53948

Microscope No. 22002 Received in Lab for Analysis: ☐ QC Only: ☒

Sample Type: PCM ☒ TEM ☐ Other: Analysis Method: NIOSH 7400 ☒ AHERA ☐ Other:
Issue 2 8/15/94 A rules

Type of Sample: 1. Background 2. Prep. 3. Work Area 4. Environmental 5. Personal 6. Clearance

Relative Standard Deviation (Sr)		
Range Fibers/fields	Intra-lab Sr	Inter-lab Sr
<20/100	0.520	0.517
20.5 to 50/100	0.352	0.451
>50/100	0.295	0.387

Sample No.	194	195	196	197	198		
Sampling Location/Comments	NE Window Reg Area	NW Window Reg Area	Int Window Reg Area	FB	SB		
Type of Sample	1	1	1				
Pump Number	1	2	3				
Start Time/Stop Time	8:05 | 3:00	8:05 | 3:00	8:05 | 3:00				
Total Time (min)	415	415	415				
Flow Rate	3 | 3	3 | 3	3 | 3				
Total Volume (l)	1260 45	1260 45	1260 45				
FB __ BFB FL BFL	14/100	16/100	7/100	0/100	0/100		
Filter Fiber Conc. (fibers/mm²)	17.83	20.38	8.91	-	-		
Airborne Fiber Conc. (fibers/cc)	0.0086 (KW)	0.006 ✓	0.0023 (KW)	-	-		

STANDARDS
<0.01 f/cc – EPA Re–Occupancy Clearance Criteria
0.10 f/cc – OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc – OSHA 30 min Excursion Level
ND< – Non Detected, less than the limit of detection
Limit of Detection – 5.5 fibers/100 fields

Relinquished by: Tyler MacMurray Date 6/26/19 Time 17:00

Received By: K Williamson Date 6/27/19 Time 0900

Relinquished by: Date Time

Received by Laboratory: Date Time

TRC Laboratory Asbestos Analytical Certifications:
AZ # AZ0944 CT#PH–0426 HI # L-09-004 LA #05011 MA # AA000052
ME # LA–0075 NJ # CT004 NY # 10980 RI # AAL–007
TX # 300354 VA # 3333000283 VT # AL910359 WV # LT000597
Philadelphia # 461 AIHA IHLAP # 100122 AIHA PAT# 100122
Results relate only to the samples tested, as received by the laboratory. Verifiability of the laboratory's results is limited to the FB/mm².

Condition of Samples: Acceptable: Y ✓ N
Comments:
AIHA Registry Programs Asbestos Analyst Registry Organization ID: 100122

QC Recount

Sample No.	FB/FL	Analyst/Date	Field/Lab
194	8/100	KW 6/28/19	KW

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AIR SAMPLE ANALYSIS REPORT

Project No.: 263951.00029.0001 Date: 6/17/19 Page 39 of 39

Client: UI

Site: ES Station B North Windows

Address: 50 Grand Ave
New Haven, CT

Sampler Print: Tyler Macdillivray Signature: Tyler Macdillivray Date:

Analyst Print: Tyler Macdillivray AAR ID: Signature: Tyler Macdillivray Date Analyzed:

QC Analyst Print: K Williamson Signature: K Williamson Date Analyzed: 6/28/19

Lab Supervisor Print: K Williamson Signature: K Williamson Date Issued: 6/28/19

Contact/Name: M. Keaney Phone:

Rotometer No.: L-25 Date of Calibration: 5/30/19 Lab No. 53948

Microscope No. 22002 Received in Lab for Analysis: ☐ QC Only: ☑

Sample Type: PCM ☒ TEM ☐ Other: Analysis Method: NIOSH 7400 ☒ AHERA ☐ Other:
Issue 2 8/15/94 A rules

Type of Sample: 1. Background 2. Prep. 3. Work Area 4. Environmental 5. Personal 6. Clearance

Relative Standard Deviation (Sr)		
Range Fibers/fields	Intra-lab Sr	Inter-lab Sr
<20/100	0.520	0.517
20.5 to 50/100	0.352	0.451
>50/100	0.295	0.387

Sample No.	199	200	201	202	203		
Sampling Location/Comments	NE Window Reg Area	NW Window Reg Area	Int Window Reg Area	FB	SB		
Type of Sample	1	2	3				
Pump Number	1	2	3				
Start Time/Stop Time	7:50 | 15:20	7:50 | 15:20	7:50 | 15:20				
Total Time (min)	450	450	450				
Flow Rate	3 | 3	3 | 3	3 | 3				
Total Volume (l)	1350	1350	1356				
FB __ BFB FL BFL	10/100	12/100	8/100	0/100	0/100		
Filter Fiber Conc. (fibers/mm²)	12.73 (WS)	15.28	10.19 (WS)	-	-		
Airborne Fiber Conc. (fibers/cc)	0.0074	0.004	0.0043	-	-		

STANDARDS
<0.01 f/cc – EPA Re–Occupancy Clearance Criteria
0.10 f/cc – OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc – OSHA 30 min Excursion Level
ND< – Non Detected, less than the limit of detection
Limit of Detection – 5.5 fibers/100 fields

Relinquished by: Tyler Macdillivray Date 6/26/19 Time 17:00
Received By: K Williamson Date 6/27/19 Time 0900
Relinquished by: Date Time
Received by Laboratory: Date Time

TRC Laboratory Asbestos Analytical Certifications:
AZ # AZ0944 CT#PH–0426 HI # L-09-004 LA #05011 MA # AA000052
ME # LA–0075 NJ # CT004 NY # 10980 RI # AAL–007
TX # 300354 VA # 3333000283 VT # AL910359 WV # LT000597
Philadelphia # 461 AIHA IHLAP # 100122 AIHA PAT# 100122
Results relate only to the samples tested, as received by the laboratory. Verifiability of the laboratory's results is limited to the FB/mm².

Condition of Samples:
Acceptable: Y ✓ N
Comments:
AIHA Registry Programs Asbestos Analyst Registry
Organization ID: 100122

QC Recount

Sample No.	FB/FL	Analyst/Date	Field/Lab

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AIR SAMPLE ANALYSIS REPORT

Project No.: 263951.00023.0001 Date: 6/18/19 Page 40 of 40

Client: UI

Sampler Print: Tyler Mullaney Signature: Tyler Mullaney Date: 6/18/19

Site: ES Station B North Windsors

Analyst Print: Tyler Mullaney AAR ID: Signature: Tyler Mullaney Date Analyzed: 6/18/19

Address: 510 Grand Ave.

QC Analyst Print: K. Williamson Signature: Date Analyzed: 6/28/19

New Haven, CT

Lab Supervisor Print: K. Williamson Signature: Date Issued: 6/28/19

Contact/Name: M. Kearney Phone:

Rotometer No.: L-25 Date of Calibration: 5/22/19 Lab No. 539148

Relative Standard Deviation (Sr)		
Range Fibers/fields	Intra-lab Sr	Inter-lab Sr
<20/100	0.520	0.517
20.5 to 50/100	0.352	0.451
>50/100	0.295	0.387

Microscope No. 22002 Received in Lab for Analysis: ☐ QC Only: ☒

Sample Type: PCM ☒ TEM ☐ Other: Analysis Method: NIOSH 7400 ☒ AHERA ☐ Other:
Issue 2 8/15/94 A rules

Type of Sample: 1. Background 2. Prep. 3. Work Area 4. Environmental 5. Personal 6. Clearance

Sample No.	204	205	206	207	208		
Sampling Location/Comments	Int	NW	NE	SB	FB		
Type of Sample	1	1	1				
Pump Number	1	2	3				
Start Time/Stop Time	800 15:05	800 15:05	800 15:05				
Total Time (min)	425	425	425				
Flow Rate	3 3	3 3	3 3				
Total Volume (l)	1275	1275	1275				
FB — BFB FL — BFL	6/100	5/100	7/100	0/100	0/100		
Filter Fiber Conc. (fibers/mm²)	7.64	6.36	8.91	-	-		
Airborne Fiber Conc. (fibers/cc)	0.002 ✓	ND<0.002 ✓	0.0023 (KW)	-	-		

STANDARDS
<0.01 f/cc – EPA Re–Occupancy Clearance Criteria
0.10 f/cc – OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc – OSHA 30 min Excursion Level
ND< – Non Detected, less than the limit of detection
Limit of Detection – 5.5 fibers/100 fields

Relinquished by: Tyler Mullaney Date 6/26/19 Time 17:00
Received By: Date 6/27/19 Time 0900
Relinquished by: Date Time
Received by Laboratory: Date Time

TRC Laboratory Asbestos Analytical Certifications:
AZ # AZ0944 CT#PH–0426 HI # L-09-004 LA #05011 MA # AA000052
ME # LA–0075 NJ # CT004 NY # 10980 RI # AAL–007
TX # 300354 VA # 3333000283 VT # AL910359 WV # LT000597
Philadelphia # 461 AIHA IHLAP # 100122 AIHA PAT# 100122

Condition of Samples:
Acceptable: Y ✓ N
Comments:
AIHA Registry Programs Asbestos Analyst Registry
Organization ID: 100122

Results relate only to the samples tested, as received by the laboratory. Verifiability of the laboratory's results is limited to the FB/mm².

QC Recount

Sample No.	FB/FL	Analyst/Date	Field/Lab
204	5/100	KW 6/28/19	Lab

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AIR SAMPLE ANALYSIS REPORT

Project No.: 263951.00023.0001 Date: 6/18/19 Page 41 of 41

Client: UI

Sampler Print: Tyler Mackelmurray Signature: Tyler Mackelmurray Date: 6/19/19

Site: ES Staton B North Windows

Analyst Print: Tyler Mackelmurray AAR ID: Signature: Tyler Mackelmurray Date Analyzed: 6/19/19

Address: 510 Grand Ave New Haven, CT

QC Analyst Print: K Williamson Signature: K Williamson Date Analyzed: 6/28/19

Lab Supervisor Print: K Williamson Signature: K Williamson Date Issued: 6/28/19

Contact/Name: M Kearney Phone:

Rotometer No.: L-25 Date of Calibration: 5/20/19 Lab No. 53948

Microscope No. 22007 Received in Lab for Analysis: ☐ QC Only: ☒

Sample Type: PCM ☐ TEM ☐ Other: Analysis Method: NIOSH 7400 ☐ AHERA ☐ Other:
Issue 2 8/15/94 A rules

Type of Sample: 1. Background 2. Prep. 3. Work Area 4. Environmental 5. Personal 6. Clearance

Relative Standard Deviation (Sr)		
Range Fibers/fields	Intra-lab Sr	Inter-lab Sr
<20/100	0.520	0.517
20.5 to 50/100	0.352	0.451
>50/100	0.295	0.387

Sample No.	209	210	211	212	213		
Sampling Location/Comments	NE	NW	INT	SB	FB		
Type of Sample	1	1	1				
Pump Number	1	2	3				
Start Time/Stop Time	9:50 | 15:48	9:50 | 15:48	9:50 | 15:48				
Total Time (min)	358	358	358				
Flow Rate	3 | 3	3 | 3	3 | 3				
Total Volume (l)	1074	1074	1074				
FB __ BFB FL BFL	6/100	8/100	5/100	2/100	0/100		
Filter Fiber Conc. (fibers/mm²)	7.64	10.14	6.36	-	-		
Airborne Fiber Conc. (fibers/cc)	0.0023 KW	0.0034 KW	NDL0.0023 KW	-	-		

STANDARDS
<0.01 f/cc – EPA Re-Occupancy Clearance Criteria
0.10 f/cc – OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc – OSHA 30 min Excursion Level
ND< – Non Detected, less than the limit of detection
Limit of Detection – 5.5 fibers/100 fields

Relinquished by: Tyler Mackelmurray Date 6/26/19 Time 17:00

Received By: K Williamson Date 6/27/19 Time 0900

Relinquished by: Date Time

Received by Laboratory: Date Time

TRC Laboratory Asbestos Analytical Certifications:
AZ # AZ0944 CT#PH-0426 HI # L-09-004 LA #05011 MA # AA000052
ME # LA-0075 NJ # CT004 NY # 10980 RI # AAL-007
TX # 300354 VA # 3333000283 VT # AL910359 WV # LT000597
Philadelphia # 461 AIHA IHLAP # 100122 AIHA PAT# 100122
Results relate only to the samples tested, as received by the laboratory. Verifiability of the laboratory's results is limited to the FB/mm².

Condition of Samples:
Acceptable: Y ✓ N
Comments:
AIHA Registry Programs Asbestos Analyst Registry
Organization ID: 100122

QC Recount

Sample No.	FB/FL	Analyst/Date	Field/Lab

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AIR SAMPLE ANALYSIS REPORT

Project No.: 263451.00028.0001 Date: 6/20/19 Page 42 of 42

Client: UI

Sampler Print: Tyler MacGillivray Signature: Tyler MacGillivray Date: 6/20/19

Site: ES Station B North Windows

Analyst Print: Tyler MacGillivray AAR ID: Signature: Tyler MacGillivray Date Analyzed: 6/20/19

Address: 510 Grand Ave New Haven, CT

QC Analyst Print: K Williamson Signature: K Williamson Date Analyzed: 6/28/19

Lab Supervisor Print: K Williamson Signature: K Williamson Date Issued: 6/28/19

Contact/Name: M. Kearney Phone: Rotometer No.: L-25 Date of Calibration: 5/22/14 Lab No. 53948

Microscope No. 22002 Received in Lab for Analysis: ☐ QC Only: ☒

Sample Type: PCM ☒ TEM ☐ Other: Analysis Method: NIOSH 7400 ☐ AHERA ☐ Other:
Issue 2 8/15/94 A rules

Type of Sample: 1. Background 2. Prep. 3. Work Area 4. Environmental 5. Personal 6. Clearance

Relative Standard Deviation (Sr)		
Range Fibers/fields	Intra-lab Sr	Inter-lab Sr
<20/100	0.520	0.517
20.5 to 50/100	0.352	0.451
>50/100	0.295	0.387

Sample No.	214	215	216	217	218		
Sampling Location/Comments	INT	NE	NW				
Type of Sample	1	1	1				
Pump Number	1	2	3				
Start Time/Stop Time	8:07 | 15:22	8:07 | 15:22	8:07 | 15:22				
Total Time (min)	435	435	435				
Flow Rate	3 | 3	3 | 3	3 | 3				
Total Volume (l)	1305	1305	1305				
FB __ BFB FL BFL	9/100	6/100	5/100	0/100	0/100		
Filter Fiber Conc. (fibers/mm²)	11.46	7.64	6.36	–	–		
Airborne Fiber Conc. (fibers/cc)	0.003 ✓	0.002 ✓	ND<0.002 ✓	–	–		

STANDARDS
<0.01 f/cc – EPA Re-Occupancy Clearance Criteria
0.10 f/cc – OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc – OSHA 30 min Excursion Level
ND< – Non Detected, less than the limit of detection
Limit of Detection – 5.5 fibers/100 fields

Relinquished by: Tyler MacGillivray Date 6/26/19 Time 17:00
Received By: Date 6/27/19 Time 0902
Relinquished by: Date Time
Received by Laboratory: Date Time

TRC Laboratory Asbestos Analytical Certifications:
AZ # AZ0944 CT#PH-0426 HI # L-09-004 LA #05011 MA # AA000052
ME # LA-0075 NJ # CT004 NY # 10980 RI # AAL-007
TX # 300354 VA # 3333000283 VT # AL910359 WV # LT000597
Philadelphia # 461 AIHA IHLAP # 100122 AIHA PAT# 100122

Condition of Samples:
Acceptable: Y ✓ N
Comments:
AIHA Registry Programs Asbestos Analyst Registry
Organization ID: 100122

Results relate only to the samples tested, as received by the laboratory. Verifiability of the laboratory's results is limited to the FB/mm².

QC Recount

Sample No.	FB/FL	Analyst/Date	Field/Lab
214	6/100	KW 6/28/19	Lab

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AIR SAMPLE ANALYSIS REPORT

Project No.: 263951.00022.0001 Date: 6/21/19
Client: UI
Sampler Print: Tyler Macbethway Signature: Date: 6/28/19
Site: ES Station B East Windows
Analyst Print: Tyler Macbethway AAR ID: Signature: Date Analyzed: 6/21/19
Address: 510 Grand Ave
New Haven, CT
QC Analyst Print: K Williamson Signature: Date Analyzed: 6/28/19
Lab Supervisor Print: K Williamson Signature: Date Issued: 6/28/19
Contact/Name: M. Kearney Phone:
Rotometer No.: L-25 Date of Calibration: 5/2018 Lab No. 539148
Microscope No. 22002 Received in Lab for Analysis: ☐ QC Only: ☒

Relative Standard Deviation (Sr)		
Range Fibers/fields	Intra-lab Sr	Inter-lab Sr
<20/100	0.520	0.517
20.5 to 50/100	0.352	0.451
>50/100	0.295	0.387

Sample Type: PCM ☒ TEM ☐ Other: Analysis Method: NIOSH 7400 ☒ AHERA ☐ Other:
Issue 2 8/15/94 A rules
Type of Sample: (1. Background) 2. Prep. 3. Work Area 4. Environmental 5. Personal 6. Clearance

Sample No.	219	220	221	222	223		
Sampling Location/Comments	Int	East	South	SB	FB		
Type of Sample	1	1	1				
Pump Number	1	2	3				
Start Time/Stop Time	7:55 | 15:08	7:55 | 15:08	7:55 | 15:08				
Total Time (min)	~~467~~ 428	~~467~~ 428	~~467~~ 428				
Flow Rate	3 | 3	3 | 3	3 | 3				
Total Volume (l)	~~1401~~ 1284	~~1401~~ 1284	~~1401~~ 1284				
FB __ BFB FL BFL	7/100	9/100	13/100	0/100	0/100		
Filter Fiber Conc. (fibers/mm²)	8.91	11.46	16.5	—	—		
Airborne Fiber Conc. (fibers/cc)	0.0023 (VAC)	0.0029 (VAC)	0.0045 (VAC)	—	—		

STANDARDS
<0.01 f/cc – EPA Re–Occupancy Clearance Criteria
0.10 f/cc – OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc – OSHA 30 min Excursion Level
ND< – Non Detected, less than the limit of detection
Limit of Detection – 5.5 fibers/100 fields

Relinquished by: Date 6/26/19 Time 17:00
Received By: Date 6/27/19 Time 0900
Relinquished by: Date Time
Received by Laboratory: Date Time

TRC Laboratory Asbestos Analytical Certifications:
AZ # AZ0944 CT#PH–0426 HI # L-09-004 LA #05011 MA # AA000052
ME # LA–0075 NJ # CT004 NY # 10980 RI # AAL–007
TX # 300354 VA # 3333000283 VT # AL910359 WV # LT000597
Philadelphia # 461 AIHA IHLAP # 100122 AIHA PAT# 100122
Results relate only to the samples tested, as received by the laboratory. Verifiability of the laboratory's results is limited to the FB/mm².

Condition of Samples:
Acceptable: Y ✓ N
Comments:
AIHA Registry Programs Asbestos Analyst Registry
Organization ID: 100122

QC Recount

Sample No.	FB/FL	Analyst/Date	Field/Lab

TRC 21 Griffin Road North Windsor, CT 06095 860-298-9692

Edition: August 2018
Supersedes Previous Edition

AIR SAMPLE ANALYSIS REPORT

Project No.: 263951.00028.0001 Date: 6/24/19 Page 44 of 44

Client: UI

Sampler Print: Tyler MacGillivray Signature: Tyler MacG Date: 6/24/19

Site: ES Station B

Analyst Print: Tyler MacGillivray AAR ID: Signature: Tyler MacG Date Analyzed: 6/24/19

Address: 510 Grand Ave

QC Analyst Print: K Williamson Signature: K Williamson Date Analyzed: 6/28/19

New Haven, CT

Lab Supervisor Print: K Williamson Signature: K Williamson Date Issued: 6/28/19

Contact/Name: M. Kearney Phone: Rotometer No.: L-25 Date of Calibration: 5/20/19 Lab No. 539148

Relative Standard Deviation (Sr)		
Range Fibers/fields	Intra-lab Sr	Inter-lab Sr
<20/100	0.520	0.517
20.5 to 50/100	0.352	0.451
>50/100	0.295	0.387

Microscope No. 220022 Received in Lab for Analysis: ☐ QC Only: ☒

Sample Type: PCM ☒ TEM ☐ Other: _____ Analysis Method: NIOSH 7400 ☒ AHERA ☐ Other: _____
Issue 2 8/15/94 A rules

Type of Sample: 1. Background 2. Prep. 3. Work Area 4. Environmental 5. Personal 6. Clearance

Sample No.	224	225	226	227	228	229	230
Sampling Location/Comments	Reg Area East	Reg Area South	Reg Area Int	North assembly Hall	South	SB	FB
Type of Sample	1	1	1	2	2		
Pump Number	1	2	3	4	5		
Start Time/Stop Time	9:05 / 15:00	9:05 / 15:00	9:05 / 15:00	9:24 / 15:20	9:24 / 15:20		
Total Time (min)	355	355	355	351	351		
Flow Rate	3 / 3	3 / 3	3 / 3	3 / 3	3 / 3		
Total Volume (l)	1065	1065	1065	1053	1053		
FB __ BFB FL __ BFL	4/100	5/100	8/100	4/100	6/100	0/100	9/100
Filter Fiber Conc. (fibers/mm²)	5.09	6.36	10.19	5.09	7.64	-	-
Airborne Fiber Conc. (fibers/cc)	ND<0.002 (KW)	ND<0.002 (KW)	0.003 (KW)	ND<0.002 (KW)	0.002	-	-

STANDARDS
<0.01 f/cc – EPA Re–Occupancy Clearance Criteria
0.10 f/cc – OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc – OSHA 30 min Excursion Level
ND< – Non Detected, less than the limit of detection
Limit of Detection – 5.5 fibers/100 fields

Relinquished by: Tyler MacGillivray Date 6/26/19 Time 17:00
Received By: K Williamson Date 6/27/19 Time 0907
Relinquished by: _____ Date _____ Time _____
Received by Laboratory: _____ Date _____ Time _____

TRC Laboratory Asbestos Analytical Certifications:
AZ # AZ0944 CT#PH–0426 HI # L-09-004 LA #05011 MA # AA000052
ME # LA–0075 NJ # CT004 NY # 10980 RI # AAL–007
TX # 300354 VA # 3333000283 VT # AL910359 WV # LT000597
Philadelphia # 461 AIHA IHLAP # 100122 AIHA PAT# 100122

Condition of Samples:
Acceptable: Y ✓ N _____
Comments: _____
AIHA Registry Programs Asbestos Analyst Registry
Organization ID: 100122

Results relate only to the samples tested, as received by the laboratory. Verifiability of the laboratory's results is limited to the FB/mm².

QC Recount

Sample No.	FB/FL	Analyst/Date	Field/Lab
224	3/100	KW 6/28/19	Lab

TRC 21 Griffin Road North Windsor, CT 06095 860-298-9692

Edition: August 2018
Supersedes Previous Edition

AIR SAMPLE ANALYSIS REPORT

Project No.: 263951.00028.0001 Date: 6/25/19 Page 45 of 45

Client: UI

Sampler Print: Tyler MacGillivray Signature: Tyler MacGillivray Date: 6/25/19

Site: ES Station B / Auxiliary buildings

AAR ID:

Analyst Print: Tyler MacGillivray Signature: Tyler MacGillivray Date Analyzed: 6/25/19

Address: 510 Grand Ave

QC Analyst Print: K Williamson Signature: K Williamson Date Analyzed: 6/28/19

New Haven, CT

Lab Supervisor Print: K Williamson Signature: K Williamson Date Issued: 6/28/19

Contact/Name: M. Kearney Phone: Rotometer No.: L-25 Date of Calibration: 5/20/19 Lab No. 53948

Microscope No. 22002 Received in Lab for Analysis: ☐ QC Only: ☒

Sample Type: PCM ☒ TEM ☐ Other: Analysis Method: NIOSH 7400 ☒ AHERA ☐ Other:
Issue 2 8/15/94 A rules

Type of Sample: 1. Background 2. Prep. 3. Work Area 4. Environmental 5. Personal 6. Clearance

Relative Standard Deviation (Sr)		
Range Fibers/fields	Intra-lab Sr	Inter-lab Sr
<20/100	0.520	0.517
20.5 to 50/100	0.352	0.451
>50/100	0.295	0.387

Sample No.	231	232	233	234	235	236	237
Sampling Location/Comments	Assembly Hall North	Assembly Hall East	Reg Area East	Reg Area South	Reg Area Interior	SB	FB
Type of Sample	1	1	1	1	1		
Pump Number	1	2	3	4	5		
Start Time/Stop Time	8:40 15:00	8:40 15:00	9:00 15:20	9:00 15:20	9:00 15:20		
Total Time (min)	380	380	380	380	380		
Flow Rate	3 3	3 3	3 3	3 3	3 3		
Total Volume (l)	1140	1140	1140	1140	1140		
FB __ BFB FL BFL	9/100	4/100	6/100	7/100	6/100	0/100	0/100
Filter Fiber Conc. (fibers/mm²)	11.46	5.09	7.64	8.91	7.64	-	-
Airborne Fiber Conc. (fibers/cc)	0.0034 (VP)	ND<0.002 ✓	0.0023 (VP)	0.003 ✓	0.0023 (VP)	-	-

STANDARDS
<0.01 f/cc – EPA Re-Occupancy Clearance Criteria
0.10 f/cc – OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc – OSHA 30 min Excursion Level
ND< – Non Detected, less than the limit of detection
Limit of Detection – 5.5 fibers/100 fields

Relinquished by: Tyler MacGillivray Date 6/26/19 Time 17:06
Received By: Date 6/27/19 Time 0900
Relinquished by: Date Time
Received by Laboratory: Date Time

TRC Laboratory Asbestos Analytical Certifications:
AZ # AZ0944 CT#PH-0426 HI # L-09-004 LA #05011 MA # AA000052
ME # LA-0075 NJ # CT004 NY # 10980 RI # AAL-007
TX # 300354 VA # 3333000283 VT # AL910359 WV # LT000597
Philadelphia # 461 AIHA IHLAP # 100122 AIHA PAT# 100122

Condition of Samples: Acceptable: Y ✓ N
Comments:
AIHA Registry Programs Asbestos Analyst Registry Organization ID: 100122

Results relate only to the samples tested, as received by the laboratory. Verifiability of the laboratory's results is limited to the FB/mm².

QC Recount

Sample No.	FB/FL	Analyst/Date	Field/Lab
233	6/100	K Williamson 6/28/19	Lab

TRC 21 Griffin Road North Windsor, CT 06095 860-298-9692

Edition: August 2018
Supersedes Previous Edition

AIR SAMPLE ANALYSIS REPORT

Project No.: 263951.00028.0001 Date: 6/26/19 Page 34 of 34

Client: UI Sampler Print: Tyler MacGillivray Signature: Tyler MacGillivray Date: 6/26/19

Site: ES Station B East Windows / Assembly AAR ID: Analyst Print: Tyler MacGillivray Signature: Tyler MacGillivray Date Analyzed: 6/26/19

Address: 50 Grand Ave QC Analyst Print: K Williamson Signature: K Williamson Date Analyzed: 7/10/19

New Haven, CT Lab Supervisor Print: K Williamson Signature: K Williamson Date Issued: 7/10/19

Contact/Name: M. Kearney Phone: Rotometer No.: L-25 Date of Calibration: 5/20/19 Lab No. 53990

Microscope No. 22062 Received in Lab for Analysis: ☐ QC Only: ☒

Sample Type: PCM ☒ TEM ☐ Other: Analysis Method: NIOSH 7400 ☒ AHERA ☐ Other: Issue 2 8/15/94 A rules

Type of Sample: 1. Background 2. Prep. 3. Work Area 4. Environmental 5. Personal 6. Clearance

Relative Standard Deviation (Sr)		
Range Fibers/fields	Intra-lab Sr	Inter-lab Sr
<20/100	0.520	0.517
20.5 to 50/100	0.352	0.451
>50/100	0.295	0.387

Sample No.	238	239	240	241	242	243	244
Sampling Location/Comments	Assembly Hall North	Assembly Hall East	Reg Area East	Reg Area South	Reg Area Int	SB	FB
Type of Sample	1	1	1	1	1		
Pump Number	1	2	3	4	5		
Start Time/Stop Time	7:57 | 14:58	7:57 | 14:58	7:48 | 15:07	7:48 | 15:07	7:48 | 15:07		
Total Time (min)	421	421	439	439	439		
Flow Rate	3 | 3	3 | 3	3 | 3	3 | 3	3 | 3		
Total Volume (l)	1263	1263	1317	1317	1317		
FB __ BFB FL __ BFL	6/100	8/100	7/100	10/100	3/100	0/100	0/100
Filter Fiber Conc. (fibers/mm²)	7.64	10.19	8.91	12.73	3.82	-	-
Airborne Fiber Conc. (fibers/cc)	0.002	0.003	0.002	0.003	ND<0.002	-	-

STANDARDS
<0.01 f/cc – EPA Re–Occupancy Clearance Criteria
0.10 f/cc – OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc – OSHA 30 min Excursion Level
ND< – Non Detected, less than the limit of detection
Limit of Detection – 5.5 fibers/100 fields

Relinquished by: Tyler MacGillivray Date 7/9/19 Time 14:00
Received By: Date 7/9/19 Time 1500
Relinquished by: Date Time
Received by Laboratory: Date Time

TRC Laboratory Asbestos Analytical Certifications:
AZ # AZ0944 CT#PH–0426 HI # L-09-004 LA #05011 MA # AA000052
ME # LA–0075 NJ # CT004 NY # 10980 RI # AAL–007
TX # 300354 VA # 3333000283 VT # AL910359 WV # LT000597
Philadelphia # 461 AIHA IHLAP # 100122 AIHA PAT# 100122
Results relate only to the samples tested, as received by the laboratory. Verifiability of the laboratory's results is limited to the FB/mm².

Condition of Samples:
Acceptable: Y ✓ N
Comments:
AIHA Registry Programs Asbestos Analyst Registry
Organization ID: 100122

QC Recount

Sample No.	FB/FL	Analyst/Date	Field/Lab
242	3/100	KW 7/10/19	Lab

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Edition: August 2018
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AIR SAMPLE ANALYSIS REPORT

Project No.: 263951.00028.0061 Date: 6/27/19 Page 40 of 40

Client: UI

Sampler Print: Tyler MacGillivray Signature: Tyler MacGillivray Date: 6/27/19

Site: ES Assembly Hall room 1-4

Analyst Print: Tyler MacGillivray AAR ID: Signature: Tyler MacGillivray Date Analyzed: 6/27/19

Address: 510 Grand Ave. New Haven, CT

QC Analyst Print: K Williamson Signature: K Williamson Date Analyzed: 7/10/19

Lab Supervisor Print: K Williamson Signature: K Williamson Date Issued: 7/10/19

Contact/Name: M. Kearney Phone:

Rotometer No.: H-21 Date of Calibration: 5/20/19 Lab No. 53490

Microscope No. 22002 Received in Lab for Analysis: ☐ QC Only: ☒

Sample Type: PCM ☒ TEM ☐ Other: Analysis Method: NIOSH 7400 ☒ AHERA ☐ Other:
Issue 2 8/15/94 A rules

Type of Sample: 1. Background 2. Prep. 3. Work Area 4. Environmental 5. Personal 6. Clearance

Relative Standard Deviation (Sr)		
Range Fibers/fields	Intra-lab Sr	Inter-lab Sr
<20/100	0.520	0.517
20.5 to 50/100	0.352	0.451
>50/100	0.295	0.387

Sample No.	245	246	247	248	249	250	251
Sampling Location/Comments	Bathroom	Entry way	Swordfish North	Swordfish Center	Swordfish south	SB	FB
Type of Sample	6	6	6	6	6		
Pump Number	1	2	3	4	5		
Start Time/Stop Time	13:22 | 14:42	13:22 | 14:42	13:22 | 14:42	13:22 | 14:42	13:22 | 14:42		
Total Time (min)	80	80	80	80	80		
Flow Rate	15 | 15	15 | 15	15 | 15	15 | 15	15 | 15		
Total Volume (l)	1200	1200	1200	1200	1200		
FB __ BFB FL BFL	13/100	14/100	10/100	15/100	8/100	0/100	0/100
Filter Fiber Conc. (fibers/mm²)	16.56	17.83	12.73	19.10	10.14	-	-
Airborne Fiber Conc. (fibers/cc)	0.005	0.005	0.004	0.006	0.003	-	-

STANDARDS
<0.01 f/cc – EPA Re-Occupancy Clearance Criteria
0.10 f/cc – OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc – OSHA 30 min Excursion Level
ND< – Non Detected, less than the limit of detection
Limit of Detection – 5.5 fibers/100 fields

Relinquished by: Tyler MacGillivray Date 7/9/19 Time 14:00
Received By: K Williamson Date 7/9/19 Time 1500
Relinquished by: Date Time
Received by Laboratory: Date Time

TRC Laboratory Asbestos Analytical Certifications:
AZ # AZ0944 CT#PH-0426 HI # L-09-004 LA #05011 MA # AA000052
ME # LA-0075 NJ # CT004 NY # 10980 RI # AAL-007
TX # 300354 VA # 3333000283 VT # AL910359 WV # LT000597
Philadelphia # 461 AIHA IHLAP # 100122 AIHA PAT# 100122
Results relate only to the samples tested, as received by the laboratory. Verifiability of the laboratory's results is limited to the FB/mm².

Condition of Samples:
Acceptable: Y ✓ N
Comments:
AIHA Registry Programs Asbestos Analyst Registry Organization ID: 100122

QC Recount

Sample No.	FB/FL	Analyst/Date	Field/Lab

TRC 21 Griffin Road North Windsor, CT 06095 860-298-9692

Edition: August 2018
Supersedes Previous Edition

AIR SAMPLE ANALYSIS REPORT

Project No.: 263951.00028.0009 Date: 6/27/19 Page 41 of 41

Client: UI

Sampler Print: Tyler MacGillivray Signature: Tyler MacGillivray Date: 6/27/19

Site: Es Station B - Assembly Hall

Analyst Print: Tyler MacGillivray AAR ID: Signature: Tyler MacGillivray Date Analyzed:

Address: 510 Grand Ave New Haven, CT

QC Analyst Print: K Williamson Signature: K Williamson Date Analyzed: 7/10/19

Lab Supervisor Print: K Williamson Signature: K Williamson Date Issued: 7/10/19

Contact/Name: M. Kearney Phone:

Rotometer No.: L-25 Date of Calibration: 5/22/19 Lab No. 53990

Relative Standard Deviation (Sr)		
Range Fibers/fields	Intra-lab Sr	Inter-lab Sr
<20/100	0.520	0.517
20.5 to 50/100	0.352	0.451
>50/100	0.295	0.387

Microscope No. 22002 Received in Lab for Analysis: ☐ QC Only: ☒

Sample Type: PCM ☒ TEM ☐ Other: Analysis Method: NIOSH 7400 ☐ AHERA ☐ Other:
Issue 2 8/15/94 A rules

Type of Sample: 1. Background 2. Prep. 3. Work Area 4. Environmental 5. Personal 6. Clearance

Sample No.	252	253	254	255	256		
Sampling Location/Comments	Assembly Hall North	Assembly Hall East	Station B East	Station B South	Station B Int		
Type of Sample	1	1	1	1	1		
Pump Number	1	2	3	4	5		
Start Time/Stop Time	8:05 / 15:00	8:05 / 15:00	8:45 / 15:25	8:45 / 15:25	8:45 / 15:25		
Total Time (min)	415	415	400	400	400		
Flow Rate	3 / 3	3 / 3	3 / 3	3 / 3	3 / 3		
Total Volume (l)	1245	1245	1200	1200	1200		
FB — BFB FL — BFL	12/100	7/100	9/100	6/100	4/100		
Filter Fiber Conc. (fibers/mm²)	15.28	8.91	11.46	7.64	5.09		
Airborne Fiber Conc. (fibers/cc)	0.004 ✓	0.002 ✓	0.003 ✓	0.002 ✓	ND<0.002 ✓		

STANDARDS
<0.01 f/cc – EPA Re–Occupancy Clearance Criteria
0.10 f/cc – OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc – OSHA 30 min Excursion Level
ND< – Non Detected, less than the limit of detection
Limit of Detection – 5.5 fibers/100 fields

Relinquished by: Tyler MacGillivray Date 7/9/19 Time 14:00
Received By: K Williamson Date 7/9/19 Time 1500
Relinquished by: Date Time
Received by Laboratory: Date Time

TRC Laboratory Asbestos Analytical Certifications:
AZ # AZ0944 CT#PH–0426 HI # L-09-004 LA #05011 MA # AA000052
ME # LA–0075 NJ # CT004 NY # 10980 RI # AAL–007
TX # 300354 VA # 3333000283 VT # AL910359 WV # LT000597
Philadelphia # 461 AIHA IHLAP # 100122 AIHA PAT# 100122

Condition of Samples:
Acceptable: Y ✓ N
Comments:
AIHA Registry Programs Asbestos Analyst Registry
Organization ID: 100122

Results relate only to the samples tested, as received by the laboratory. Verifiability of the laboratory's results is limited to the FB/mm².

QC Recount

Sample No.	FB/FL	Analyst/Date	Field/Lab
252	8/100	KW 7/10/19	Lab

21 Griffin Rd. North
Windsor, CT 06095

T 860.298.9692
TRCcompanies.com

June 27, 2019

Mr. Shawn Crosbie
Project Manager of Remediation- CT/MA
UIL Holdings Corporation
180 Marsh Hill Road
Orange, CT 06477

Via email: *shawn.crosbie@uinet.com*

Re: Asbestos Post Abatement Air Monitoring Results;
English Station / Station B (Interior Containment Areas)
TRC Project No. 263951.0000.0028

Dear Mr. Crosbie:

At your request, TRC provides the attached analysis reports for post abatement air monitoring conducted in conjunction with asbestos abatement activities at the Station B facility at 510A Grand Avenue in New Haven, CT. Post abatement air monitoring samples were collected at each individual interior containment area constructed for removal of friable asbestos-containing materials, as follows:

Date	Location of Containment Area	Analysis Method	Analytical Result
5/2/19	Basement- Northwest Work Zone	TEM	Average <70 s/mm^2
5/23/19	Basement- East to West Containment Tunnel (water main)	PCM	Each sample <0.01 f/cc
5/24/19	First Floor- Men's Locker Room and Men's Room	PCM	Each sample <0.01 f/cc
5/24/19	First Floor- Women's Locker Room	PCM	Each sample <0.01 f/cc
5/31/19	First Floor- East Offices	TEM	Average <70 s/mm^2
6/3/19	Basement- Door Gaskets at Pedestal Area #1	PCM	Each sample <0.01 f/cc
6/3/19	Basement- Door Gaskets at Pedestal Area #2	PCM	Each sample <0.01 f/cc
6/10/19	First Floor- East Side (Kitchen)	PCM	Each sample <0.01 f/cc

TRC conducted a post abatement visual inspection of each containment area to confirm that the asbestos abatement contractor had completed their scope of work and that the containment areas were clear of dust and debris, followed by post abatement re-occupancy air monitoring.

In compliance with CT DPH Regulation 19a-332a-12, Phase Contrast Microscopy (PCM) was utilized for analysis of post abatement air samples in containments in which the amount of asbestos-containing materials removed was less than or equal to 500 linear feet / 1500 square feet. Transmission Electron Microscopy (TEM) was be utilized for analysis of post abatement air samples in containments in which the amount of asbestos-containing materials removed was greater than 500 linear feet / 1500 square feet. Five air samples were collected in each containment area.

Analysis of post abatement air samples at each containment area determined that the post abatement air samples met the required post abatement criteria of less than or equal to 0.01 fibers per cubic centimeter (f/cc) of air for those samples analyzed via PCM, and an average of 70 asbestos structures or less per square millimeter ($s/mm^{2)}$ for those samples analyzed via TEM.

If you have any questions, please do not hesitate to call me at (860) 298-6260.

Sincerely,

TRC

Mark Kearney
Senior Project Manager
Building Sciences Division

EMSL Analytical, Inc.

29 North Plains Highway, Unit # 4 Wallingford, CT 06492

Tel/Fax: (203) 284-5948 / (203) 284-5978

http://www.EMSL.com / wallingfordlab@emsl.com

EMSL Order: 241902227
Customer ID: TRC51
Customer PO: 263951
Project ID:

Attention: Mark Kearney
TRC Environmental Consultants
21 Griffin Road North
Windsor, CT 06095

Phone: (860) 298-9692
Fax: (860) 298-6399
Received Date: 05/02/2019 17:05 PM
Analysis Date: 05/03/2019
Collected Date: 05/02/2019

Project: 263951/ ES STATION B, 510 GRAND AVE NEW HAVEN, CT 06513

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

Sample	Location	Volume (Liters)	Area Analyzed (mm²)	Non Asb	Asbestos Type(s)	#Structures ≥0.5µ < 5µ	#Structures ≥5µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)
34	NW CORNER	1200.00	0.0750	0	Chrysotile	1	0	0.0043	13.00	0.0043
241902227-0001										
35	NE CORNER	1200.00	0.0750	0	None Detected	0	0	0.0043	<13.00	<0.0043
241902227-0002										
36	SW CORNER	1200.00	0.0750	0	None Detected	0	0	0.0043	<13.00	<0.0043
241902227-0003										
37	SE CORNER	1200.00	0.0750	0	None Detected	0	0	0.0043	<13.00	<0.0043
241902227-0004										
38	CENTER	1200.00	0.0750	0	None Detected	0	0	0.0043	<13.00	<0.0043
241902227-0005										

Analyst(s)

Leslie Tetrick (5)

Almedina Hodzic

Almedina Hodzic, Asbestos Laboratory Manager
or other approved signatory

Initial report from: 05/03/2019 16:20 PM

OrderID: 241902227

241902227

TRC
21 Griffin Road North
Windsor, CT 06095 860-298-9692

Edition: August 2018
Supersedes Previous Edition

AIR SAMPLE ANALYSIS REPORT

Project No.: 263951 Date: 5/2/19 Page ____ of ____

Client: UI

Sampler Print: Tyler Macalhwrzy Signature: Tyler MacAlhwrzy Date: 5/2/19

Site: ES Station B

AAR ID:

Analyst Print: ____ Signature: ____ Date Analyzed: ____

Address: 510 Grand Ave New Haven, CT 06513

QC Analyst Print: ____ Signature: ____ Date Analyzed: ____

Lab Supervisor Print: ____ Signature: ____ Date Issued: ____

Contact/Name: M. Kearney Phone: 860-840-4585 Rotometer No.: H-25 Date of Calibration: 11/9/18 Lab No. ____

Microscope No. ____ Received in Lab for Analysis: ☐ QC Only: ☐

Sample Type: PCM ☐ TEM ☒ Other: ____ Analysis Method: NIOSH 7400 ☐ AHERA ☒ Other: ____
Issue 2 8/15/94 A rules

Type of Sample: 1. Background 2. Prep. 3. Work Area 4. Environmental 5. Personal 6. Clearance

Relative Standard Deviation (Sr)		
Range Fibers/fields	Intra-lab Sr	Inter-lab Sr
<20/100	0.520	0.517
20.5 to 50/100	0.352	0.451
>50/100	0.295	0.387

Sample No.	34	35	36	37	38		
Sampling Location/Comments	NW Corner	NE Corner	SW corner	SE Corner	Center		
Type of Sample	6	6	6	6	6		
Pump Number	1	2	3	4	5		
Start Time/Stop Time	1:29 | 3:29	1:29 | 3:29	1:29 | 3:29	1:29 | 3:29	1:29 | 3:29		
Total Time (min)	120	120	120	120	120		
Flow Rate	10 | 10	10 | 10	10 | 10	10 | 10	10 | 10		
Total Volume (l)	1200	1200	1200	1200	1200		
FB __ BFB FL BFL							
Filter Fiber Conc. (fibers/mm²)							
Airborne Fiber Conc. (fibers/cc)							

RECEIVED
MAY 02 2019
By AHES-OS

STANDARDS
<0.01 f/cc – EPA Re–Occupancy Clearance Criteria
0.10 f/cc – OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc – OSHA 30 min Excursion Level
ND< – Non Detected, less than the limit of detection
Limit of Detection – 5.5 fibers/100 fields

Relinquished by: Tyler MacAlhwrzy Date 5/2/19 Time ____
Received By: ____ Date ____ Time ____
Relinquished by: ____ Date ____ Time ____
Received by Laboratory: ____ Date ____ Time ____

TRC Laboratory Asbestos Analytical Certifications:
AZ # AZ0944 CT#PH–0426 HI # L-09-004 LA #05011 MA # AA000052
ME # LA–0075 NJ # CT004 NY # 10980 RI # AAL–007
TX # 300354 VA # 3333000283 VT # AL910359 WV # LT000597
Philadelphia # 461 AIHA IHLAP # 100122 AIHA PAT# 100122

Condition of Samples:
Acceptable: Y ____ N ____
Comments: ____
AIHA Registry Programs Asbestos Analyst Registry
Organization ID: 100122

QC Recount

Sample No.	FB/FL	Analyst/Date	Field/Lab

Results relate only to the samples tested, as received by the laboratory Verifiability of the laboratory's results is limited to the FB/mm².

☆ Email results to GKaczynski@TRCcompanies.com / MKearney@TRCcompanies.com ☆
☆ 24 HR TAT ☆

BSMT - EAST TO WEST WATERLINE CONTAINMT.

TRC 21 Griffin Road North Windsor, CT 06095 860-298-9692

Edition: August 2018
Supersedes Previous Edition

AIR SAMPLE ANALYSIS REPORT

Project No.: 263951.00028.0001 Date: 5/23/19 Page 16 of 16

Client: UI

Sampler Print: Tyler Mahlliwray Signature: Tyler Mahlliwray Date: 5/23/19

Site: ES Station B 16" pipe.

Analyst Print: Tyler Mahlliwray AAR ID: Signature: Tyler Mahlliwray Date Analyzed: 5/23/19

Address: 510 Grand Ave

QC Analyst Print: K Williamson Signature: Date Analyzed: 6/6/19

New Haven, CT

Lab Supervisor Print: K Williamson Signature: Date Issued: 6/6/19

Contact/Name: M. Kearney Phone: Rotometer No.: L-25 Date of Calibration: 5/20/19 Lab No. 53846

Relative Standard Deviation (Sr)		
Range Fibers/fields	Intra-lab Sr	Inter-lab Sr
<20/100	0.520	0.517
20.5 to 50/100	0.352	0.451
>50/100	0.295	0.387

Microscope No. 22002 Received in Lab for Analysis: ☐ QC Only: ☑

Sample Type: PCM ☐ TEM ☐ Other: _____ Analysis Method: NIOSH 7400 ☒ AHERA ☐ Other: _____
Issue 2 8/15/94 A rules

Type of Sample: 1. Background 2. Prep. 3. Work Area 4. Environmental 5. Personal 6. Clearance

Sample No.	77	78	79	80	81	82	83
Sampling Location/Comments	West	West Central	Center	East Central	East	SB	FB
Type of Sample	6	6	6	6	6	6	6
Pump Number	1	2	3	4	5		
Start Time/Stop Time	12:14 | 1:34	12:14 | 1:34	12:14 | 1:34	12:14 | 1:34	12:14 | 1:34		
Total Time (min)	80	80	80	80	80		
Flow Rate	15 | 15	15 | 15	15 | 15	15 | 15	15 | 15		
Total Volume (l)	1200	1200	1200	1200	1200		
FB ___ BFB FL ___ BFL	1/100	3/100	3/100	2/100	4/100	0/100	0/100
Filter Fiber Conc. (fibers/mm²)	1.27	3.82	3.82	2.54	5.09	-	-
Airborne Fiber Conc. (fibers/cc)	ND<0.002	ND<0.002	ND<0.002	ND<0.002	ND<0.002	-	-

STANDARDS
<0.01 f/cc – EPA Re-Occupancy Clearance Criteria
0.10 f/cc – OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc – OSHA 30 min Excursion Level
ND< – Non Detected, less than the limit of detection
Limit of Detection – 5.5 fibers/100 fields

Relinquished by: Tyler Mahlliwray Date _____ Time _____
Received By: K Williamson Date 6/6/19 Time 0900
Relinquished by: _____ Date _____ Time _____
Received by Laboratory: _____ Date _____ Time _____

TRC Laboratory Asbestos Analytical Certifications:
AZ # AZ0944 CT#PH-0426 HI # L-09-004 LA #05011 MA # AA000052
ME # LA-0075 NJ # CT004 NY # 10980 RI # AAL-007
TX # 300354 VA # 3333000283 VT # AL910359 WV # LT000597
Philadelphia # 461 AIHA IHLAP # 100122 AIHA PAT# 100122

Condition of Samples:
Acceptable: Y ✓ N _____
Comments: _____
AIHA Registry Programs Asbestos Analyst Registry
Organization ID: 100122

QC Recount

Sample No.	FB/FL	Analyst/Date	Field/Lab

Results relate only to the samples tested, as received by the laboratory. Verifiability of the laboratory's results is limited to the FB/mm².

FIRST FLOOR - LOCKER RM/MEN'S RM NW

TRC
21 Griffin Road North
Windsor, CT 06095 860-298-9692

Edition: August 2018
Supersedes Previous Edition

AIR SAMPLE ANALYSIS REPORT

Project No.: 26345I.00028.0001 Date: 5/24/19 Page 18 of 18

Client: UI

Sampler Print: Tyler Mahilliway Signature: Tyler Mahilliway Date: 5/24/19

Site: Es Station Station B Men's Locker room

Analyst Print: Tyler Mahilliway AAR ID: Signature: Tyler Mahilliway Date Analyzed: 5/24/19

Address: 510 Grand Ave

QC Analyst Print: K Williamson Signature: Date Analyzed: 6/14/19

New Haven CT

Lab Supervisor Print: K Williamson Signature: Date Issued: 6/14/19

Contact/Name: M. Kearney Phone: Rotometer No.: H Date of Calibration: Lab No. 53888

Relative Standard Deviation (Sr)		
Range Fibers/fields	Intra-lab Sr	Inter-lab Sr
<20/100	0.520	0.517
20.5 to 50/100	0.352	0.451
>50/100	0.295	0.387

Microscope No. 22002 Received in Lab for Analysis: ☐ QC Only: ~~☒~~

Sample Type: PCM ☒ TEM ☐ Other: Analysis Method: NIOSH 7400 ☒ AHERA ☐ Other:
Issue 2 8/15/94 A rules

Type of Sample: 1. Background 2. Prep. 3. Work Area 4. Environmental 5. Personal 6. Clearance

Sample No.	88	89	90	91	92	93	94
Sampling Location/Comments	Mens shower	Men's shower	Men's locker North	Men's locker center	Men's laker south	SB	FB
Type of Sample	6	6	6	6	6	6	6
Pump Number	1	2	3	4	5		
Start Time/Stop Time	11:50 | 1:10	11:50 | 1:10	11:50 | 1:10	11:50 | 1:10	11:50 | 1:10		
Total Time (min)	80	80	80	80	80		
Flow Rate	15 | 15	15 | 15	15 | 15	15 | 15	15 | 15		
Total Volume (l)	1200	1200	1200	1200	1200		
FB ___ BFB FL ___ BFL	8/100	6/100	11/100	6/100	9/100	0/100	0/100
Filter Fiber Conc. (fibers/mm²)	10.19	7.64	14.01	7.64	11.46	-	-
Airborne Fiber Conc. (fibers/cc)	0.003	0.002	0.004	0.002	0.003 (KW)	-	-

STANDARDS
<0.01 f/cc – EPA Re–Occupancy Clearance Criteria
0.10 f/cc – OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc – OSHA 30 min Excursion Level
ND< – Non Detected, less than the limit of detection
Limit of Detection – 5.5 fibers/100 fields

Relinquished by: Tyler Mahilliway Date ___ Time ___
Received By: K Williamson Date 6/14/19 Time 0800
Relinquished by: ___ Date ___ Time ___
Received by Laboratory: ___ Date ___ Time ___

TRC Laboratory Asbestos Analytical Certifications:
AZ # AZ0944 CT#PH–0426 HI # L-09-004 LA #05011 MA # AA000052
ME # LA–0075 NJ # CT004 NY # 10980 RI # AAL–007
TX # 300354 VA # 3333000283 VT # AL910359 WV # LT000597
Philadelphia # 461 AIHA IHLAP # 100122 AIHA PAT# 100122

Condition of Samples:
Acceptable: Y ✓ N ___
Comments:
AIHA Registry Programs Asbestos Analyst Registry
Organization ID: 100122

QC Recount

Sample No.	FB/FL	Analyst/Date	Field/Lab
91	5/100	K Williamson 6/14/19	Lab

Results relate only to the samples tested, as received by the laboratory. Verifiability of the laboratory's results is limited to the FB/mm².

FIRST FLOOR - WOMEN'S LOCKER ROOM

TRC
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Windsor, CT 06095 860-298-9692

Edition: August 2018
Supersedes Previous Edition

AIR SAMPLE ANALYSIS REPORT

Project No.: 263951.00028.0001 Date: 5/24/19 Page 19 of 19

Client: UT

Sampler Print: Tyler Macwilliams Signature: Tyler Macwilliams Date: 5/24/19

Site: ES Station B Women's locker room

AAR ID:

Analyst Print: Tyler Macwilliams Signature: Tyler Macwilliams Date Analyzed: 5/24/19

Address: 510 Grand Ave

QC Analyst Print: K Williamson Signature: K Williamson Date Analyzed: 6/14/19

New Haven CT

Lab Supervisor Print: K Williamson Signature: K Williamson Date Issued: 6/14/19

Contact/Name: M. Kearney Phone:

Rotometer No.: Date of Calibration: Lab No. 53888

Relative Standard Deviation (Sr)		
Range Fibers/fields	Intra-lab Sr	Inter-lab Sr
<20/100	0.520	0.517
20.5 to 50/100	0.352	0.451
>50/100	0.295	0.387

Microscope No. 22002 Received in Lab for Analysis: ☐ QC Only: ☒

Sample Type: PCM ☒ TEM ☐ Other: Analysis Method: NIOSH 7400 ☒ AHERA ☐ Other:

Issue 2 8/15/94 A rules

Type of Sample: 1. Background 2. Prep. 3. Work Area 4. Environmental 5. Personal 6. Clearance

Sample No.	95	96	97	98	99	100	101
Sampling Location/Comments	Womens locker West	Womens locker East	Both Entrance	Womens Bath West	Womens Bath East	SB	FB
Type of Sample	6	6	6	6	6		
Pump Number	1	2	3	4	5		
Start Time/Stop Time	1:20 2:40	1:20 2:40	1:20 2:40	1:20 2:40	1:20 2:40		
Total Time (min)	80	80	80	80	80		
Flow Rate	15 15	15 15	15 15	15 15	15 15		
Total Volume (l)	1200	1200	1200	1200	1200		
FB __ BFB FL BFL	4/100	6/100	7/100	7/100	9/100	0/100	0/100
Filter Fiber Conc. (fibers/mm²)	5.09	7.64	8.91	8.91	11.46	-	-
Airborne Fiber Conc. (fibers/cc)	ND<0.002	0.002	0.0073 (VF)	0.0073	0.0094	-	-

STANDARDS
<0.01 f/cc – EPA Re-Occupancy Clearance Criteria
0.10 f/cc – OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc – OSHA 30 min Excursion Level
ND< – Non Detected, less than the limit of detection
Limit of Detection – 5.5 fibers/100 fields

Relinquished by: Tyler Macwilliams Date Time
Received By: Date 6/14/19 Time 0800
Relinquished by: Date Time
Received by Laboratory: Date Time

TRC Laboratory Asbestos Analytical Certifications:
AZ # AZ0944 CT#PH-0426 HI # L-09-004 LA #05011 MA # AA000052
ME # LA-0075 NJ # CT004 NY # 10980 RI # AAL-007
TX # 300354 VA # 3333000283 VT # AL910359 WV # LT000597
Philadelphia # 461 AIHA IHLAP # 100122 AIHA PAT# 100122

Condition of Samples:
Acceptable: Y ✓ N
Comments:
AIHA Registry Programs Asbestos Analyst Registry
Organization ID: 100122

QC Recount

Sample No.	FB/FL	Analyst/Date	Field/Lab

Results relate only to the samples tested, as received by the laboratory. Verifiability of the laboratory's results is limited to the FB/mm².

352

EMSL Analytical, Inc.

29 North Plains Highway, Unit # 4 Wallingford, CT 06492

Tel/Fax: (203) 284-5948 / (203) 284-5978

http://www.EMSL.com / wallingfordlab@emsl.com

EMSL Order: 241902762
Customer ID: TRC51
Customer PO: 263951
Project ID:

Attention: Mark Kearney
TRC Environmental Consultants
21 Griffin Road North
Windsor, CT 06095

Phone: (860) 298-9692
Fax: (860) 298-6399
Received Date: 05/31/2019 15:50 PM
Analysis Date: 06/03/2019
Collected Date: 05/31/2019

Project: 263951.000028.0001/ UI, ES STATION B EAST OFFICES, 510 GRAND AVE NEW HAVEN, CT

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

Sample	Location	Volume (Liters)	Area Analyzed (mm²)	Non Asb	Asbestos Type(s)	#Structures ≥0.5µ < 5µ	#Structures ≥5µ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)
1	OFFICE ONE	1200.00	0.0762	0	None Detected	0	0	0.0042	<13.00	<0.0042
241902762-0001										
2	OFFICE TWO	1200.00	0.0762	0	None Detected	0	0	0.0042	<13.00	<0.0042
241902762-0002										
3	LOUNGE	1200.00	0.0762	0	None Detected	0	0	0.0042	<13.00	<0.0042
241902762-0003										
4	KITCHEN	1200.00	0.0762	0	None Detected	0	0	0.0042	<13.00	<0.0042
241902762-0004										
5	LIVING ROOM	1200.00	0.0762	0	None Detected	0	0	0.0042	<13.00	<0.0042
241902762-0005										

Analyst(s)

Almedina Hodzic (5)

Almedina Hodzic

Almedina Hodzic, Asbestos Laboratory Manager
or other approved signatory

Initial report from: 06/03/2019 11:51 AM

OrderID: 241902762

241902762

TRC
21 Griffin Road North
Windsor, CT 06095 860-298-9692

Edition: August 2018
Supersedes Previous Edition

AIR SAMPLE ANALYSIS REPORT

Project No.: 263951.000028.0001 Date: 5/31/19 Page 1 of 1

Client: UI

Site: ES Station B East offices

Address: 510 Grand Ave
New Haven, CT

Contact/Name: T. Macgillivray Phone: 860-830-4445

Sampler Print: Tyler Macgillivray Signature: Tyler Macgillivray Date: 5/31/19

AAR ID:

Analyst Print: _____ Signature: _____ Date Analyzed: _____

QC Analyst Print: _____ Signature: _____ Date Analyzed: _____

Lab Supervisor Print: _____ Signature: _____ Date Issued: _____

Rotometer No.: H-35 Date of Calibration: _____ Lab No. _____

Microscope No. _____ Received in Lab for Analysis: ☐ QC Only: ☐

Sample Type: PCM ☐ TEM ☐ Other: _____ Analysis Method: NIOSH 7400 ☒ AHERA ☐ Other: _____
Issue 2 8/15/94 A rules

Type of Sample: 1. Background 2. Prep. 3. Work Area 4. Environmental 5. Personal 6. Clearance

Relative Standard Deviation (Sr)

Range Fibers/fields	Intra-lab Sr	Inter-lab Sr
<20/100	0.520	0.517
20.5 to 50/100	0.352	0.451
>50/100	0.295	0.387

Sample No.	1	2	3	4	5		
Sampling Location/Comments	office one	office two	Lounge	kitchen	living room		
Type of Sample	6	6	6	6	6		
Pump Number	1	2	3	4	5		
Start Time/Stop Time	12:45 | 2:45	12:45 | 2:45	12:45 | 2:45	12:45 | 2:45	12:45 | 2:45		
Total Time (min)	120	120	120	120	120		
Flow Rate	10 | 10	10 | 10	10 | 10	10 | 10	10 | 10		
Total Volume (l)	1200	1200	1200	1200	1200		
FB ___ BFB FL BFL							
Filter Fiber Conc. (fibers/mm²)	Emailed Mark to confirm test code.						
Airborne Fiber Conc. (fibers/cc)	cassettes are TEM but test code request indicates NIOSH 7400 @ 5/31/19 WA						

6 hr TAT ☆

6 Hr TAT ☆

RECEIVED
MAY 31 2019
BY 15:50

STANDARDS
<0.01 f/cc – EPA Re–Occupancy Clearance Criteria
0.10 f/cc – OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc – OSHA 30 min Excursion Level
ND< – Non Detected, less than the limit of detection
Limit of Detection – 5.5 fibers/100 fields

Relinquished by: Tyler Macgillivray Date 5/31/19 Time _____
Received By: _____ Date _____ Time _____
Relinquished by: _____ Date _____ Time _____
Received by Laboratory: _____ Date _____ Time _____

TRC Laboratory Asbestos Analytical Certifications:
AZ # AZ0944 CT#PH–0426 HI # L-09-004 LA #05011 MA # AA000052
ME # LA–0075 NJ # CT004 NY # 10980 RI # AAL–007
TX # 300354 VA # 3333000283 VT # AL910359 WV # LT000597
Philadelphia # 461 AIHA IHLAP # 100122 AIHA PAT# 100122

Condition of Samples:
Acceptable: Y ____ N ____
Comments: _____
AIHA Registry Programs Asbestos Analyst Registry
Organization ID: 100122

QC Recount

Sample No.	FB/FL	Analyst/Date	Field/Lab

Results relate only to the samples tested, as received by the laboratory. Verifiability of the laboratory's results is limited to the FB/mm².

Please send remarks to MKearney@trccompanies.com & GKaczynski@trccompanies.com

6 hr TAT ☆

Gonzalez, Ivanilly

From: Kearney, Mark <MKearney@trccompanies.com>
Sent: Friday, May 31, 2019 4:26 PM
To: Gonzalez, Ivanilly
Subject: RE: UI, ES Station B East Offices

[EXTERNAL EMAIL]

We want TEM AHERA analysis. Thanks for checking.

From: Gonzalez, Ivanilly [mailto:igonzalez@EMSL.com]
Sent: Friday, May 31, 2019 4:25 PM
To: Kearney, Mark <MKearney@trccompanies.com>
Subject: UI, ES Station B East Offices
Importance: High

Good afternoon Mark,

Tyler dropped air samples for analyses but the cassettes are TEM cassettes and the COC states for NIOSH 7400 method. Please advise which correct Test Method you need. Samples will be place on hold until you confirm.

Thank you
Ivy

Ivanilly Gonzalez | *Administrative Assistant*
EMSL Analytical, Inc. | 29 North Plains Highway, Unit #4 | Wallingford, CT 06492
Phone: 203-284-5948 | Fax: 203-284-5978 | Toll Free: 800-220-3675
Lab Hours: Monday - Friday 8AM - 5:30PM, Saturday-Sunday On-Call

BASEMENT - DOOR GASKETS & PEDESTAL AREA

TRC
21 Griffin Road North
Windsor, CT 06095 860-298-9692

Edition: August 2018
Supersedes Previous Edition

AIR SAMPLE ANALYSIS REPORT

Project No.: 263951.00028.0001 Date: 6/13/19 Page 25 of 25

Client: UI

Sampler Print: Tyler MacGillivray Signature: Tyler MacGillivray Date: 6/13/19

Site: ES Station B DG #1

Analyst Print: Tyler MacGillivray AAR ID: Signature: Tyler MacGillivray Date Analyzed: 6/13/19

Address: 510 Grand Ave

QC Analyst Print: K Williamson Signature: K Williamson Date Analyzed: 6/14/19

New Haven, CT

Lab Supervisor Print: K Williamson Signature: K Williamson Date Issued: 6/14/19

Contact/Name: M Kearney Phone: Rotometer No.: L-25 Date of Calibration: 5/29/19 Lab No. 53888

Relative Standard Deviation (Sr)		
Range Fibers/fields	Intra-lab Sr	Inter-lab Sr
<20/100	0.520	0.517
20.5 to 50/100	0.352	0.451
>50/100	0.295	0.387

Microscope No. 22002 Received in Lab for Analysis: ☐ QC Only: ☒

Sample Type: PCM ☒ TEM ☐ Other: _____ Analysis Method: NIOSH 7400 ☐ AHERA ☐ Other: _____
Issue 2 8/15/94 A rules

Type of Sample: 1. Background 2. Prep. 3. Work Area 4. Environmental 5. Personal 6. Clearance

Sample No.	126	127	128	129	130	131	132
Sampling Location/Comments	East	West	North	South	Center	SB	FB
Type of Sample	6	6	6	6	6	6	6
Pump Number	1	2	3	4	5		
Start Time/Stop Time	10:50 | 12:10	10:50 | 12:10	10:50 | 12:10	10:50 | 12:10	10:50 | 12:10		
Total Time (min)	80	80	80	80	80		
Flow Rate	15 | 15	15 | 15	15 | 15	15 | 15	15 | 15		
Total Volume (l)	1200	1200	1200	1200	1200		
FB _ BFB FL BFL	9/100	7/100	5/100	8/100	10/100	0/100	0/100
Filter Fiber Conc. (fibers/mm²)	11.46	8.91	6.36	10.19	12.73	-	-
Airborne Fiber Conc. (fibers/cc)	0.0074 (LQ)	0.0073	NDK0.002	0.003	0.004	-	-

STANDARDS
<0.01 f/cc – EPA Re–Occupancy Clearance Criteria
0.10 f/cc – OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc – OSHA 30 min Excursion Level
ND< – Non Detected, less than the limit of detection
Limit of Detection – 5.5 fibers/100 fields

Relinquished by: Tyler MacGillivray Date 6/13/19 Time _____
Received By: K Williamson Date 6/14/19 Time 0800
Relinquished by: _____ Date _____ Time _____
Received by Laboratory: _____ Date _____ Time _____

TRC Laboratory Asbestos Analytical Certifications:
AZ # AZ0944 CT#PH–0426 HI # L-09-004 LA #05011 MA # AA000052
ME # LA–0075 NJ # CT004 NY # 10980 RI # AAL–007
TX # 300354 VA # 3333000283 VT # AL910359 WV # LT000597
Philadelphia # 461 AIHA IHLAP # 100122 AIHA PAT# 100122

Condition of Samples:
Acceptable: Y ✓ N _____
Comments: _____
AIHA Registry Programs Asbestos Analyst Registry
Organization ID: 100122

Results relate only to the samples tested, as received by the laboratory. Verifiability of the laboratory's results is limited to the FB/mm².

QC Recount

Sample No.	FB/FL	Analyst/Date	Field/Lab

356

TRC 21 Griffin Road North Windsor, CT 06095 860-298-9692

Edition: August 2018
Supersedes Previous Edition

AIR SAMPLE ANALYSIS REPORT

Project No.: 263951.00028.0001 Date: 6/3/19 Page 26 of 26

Client: UI

Sampler Print: Tyler MacGillivray Signature: Tyler MacGillivray Date: 6/3/19

Site: ES Station B DG #2

Analyst Print: Tyler MacGillivray AAR ID: Signature: Tyler MacGillivray Date Analyzed: 6/3/19

Address: 510 Grand Ave New Haven, CT

QC Analyst Print: K Williamson Signature: K Williamson Date Analyzed: 6/14/19

Lab Supervisor Print: K Williamson Signature: K Williamson Date Issued: 6/14/19

Contact/Name: M. Kearney Phone: Rotometer No.: H-41 Date of Calibration: Lab No. 53588

Microscope No. 22002 Received in Lab for Analysis: ☐ QC Only: ☒

Sample Type: PCM ☒ TEM ☐ Other: Analysis Method: NIOSH 7400 ☒ AHERA ☐ Other:
Issue 2 8/15/94 A rules

Type of Sample: 1. Background 2. Prep. 3. Work Area 4. Environmental 5. Personal 6. Clearance

Relative Standard Deviation (Sr)		
Range Fibers/fields	Intra-lab Sr	Inter-lab Sr
<20/100	0.520	0.517
20.5 to 50/100	0.352	0.451
>50/100	0.295	0.387

Sample No.	133	134	135	136	137		
Sampling Location/Comments	East	West	North	South	Center		
Type of Sample	6	6	6	6	6		
Pump Number	1	2	3	4	5		
Start Time/Stop Time	1:16 | 2:36	1:16 | 2:36	1:16 | 2:36	1:16 | 2:36	1:16 | 2:36		
Total Time (min)	80	80	80	80	80		
Flow Rate	15 | 15	15 | 15	15 | 15	15 | 15	15 | 15		
Total Volume (l)	1200	1200	1200	1200	1200		
FB __ BFB FL BFL	6/100	11/100	8/100	4/100	7/100		
Filter Fiber Conc. (fibers/mm²)	7.64	14.01 (VD)	10.19	5.09	8.91		
Airborne Fiber Conc. (fibers/cc)	0.002	0.0074	0.003	ND<0.002	0.0023		

STANDARDS
<0.01 f/cc – EPA Re-Occupancy Clearance Criteria
0.10 f/cc – OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc – OSHA 30 min Excursion Level
ND< – Non Detected, less than the limit of detection
Limit of Detection – 5.5 fibers/100 fields

Relinquished by: Tyler MacGillivray Date 6/13/19 Time
Received By: Date 6/14/19 Time 0800
Relinquished by: Date Time
Received by Laboratory: Date Time

TRC Laboratory Asbestos Analytical Certifications:
AZ # AZ0944 CT#PH-0426 HI # L-09-004 LA #05011 MA # AA000052
ME # LA-0075 NJ # CT004 NY # 10980 RI # AAL-007
TX # 300354 VA # 3333000283 VT # AL910359 WV # LT000597
Philadelphia # 461 AIHA IHLAP # 100122 AIHA PAT# 100122

Condition of Samples: ✓
Acceptable: Y ___ N ___
Comments:

AIHA Registry Programs Asbestos Analyst Registry
Organization ID: 100122

QC Recount

Sample No.	FB/FL	Analyst/Date	Field/Lab
135	6/100	KW 6/14/19	LeD

Results relate only to the samples tested, as received by the laboratory. Verifiability of the laboratory's results is limited to the FB/mm².

1ST FLOOR - EAST OFFICE KITCHEN

TRC
21 Griffin Road North
Windsor, CT 06095 860-298-9692

Edition: August 2018
Supersedes Previous Edition

AIR SAMPLE ANALYSIS REPORT

Project No.: 263951.00028.0001 Date: 6/10/19 Page 33 of 33

Client: UI

Sampler Print: Tyler MacMurray Signature: Tyler MacMurray Date: 6/10/19

Site: ES Station B Kitchen

AAR ID:

Analyst Print: Tyler MacMurray Signature: Tyler MacMurray Date Analyzed: 6/10/19

Address: 510 Grand Ave
New Haven, CT

QC Analyst Print: K Williamson Signature: K Williamson Date Analyzed: 6/14/19

Lab Supervisor Print: K Williamson Signature: K Williamson Date Issued: 6/14/19

Contact/Name: M. Kearney Phone: Rotometer No.: HL-25 Date of Calibration: Lab No. 53888

Microscope No. 22002 Received in Lab for Analysis: ☐ QC Only: ☒

Sample Type: PCM ☒ TEM ☐ Other: Analysis Method: NIOSH 7400 ☒ AHERA ☐ Other:
Issue 2 8/15/94 A rules

Type of Sample: 1. Background 2. Prep. 3. Work Area 4. Environmental 5. Personal 6. Clearance

Relative Standard Deviation (Sr)		
Range Fibers/fields	Intra-lab Sr	Inter-lab Sr
<20/100	0.520	0.517
20.5 to 50/100	0.352	0.451
>50/100	0.295	0.387

Sample No.	172	173	174	175	176	177	178
Sampling Location/Comments	East	West	North	South	Center	SB	FB
Type of Sample	6	6	6	6	6		
Pump Number	1	2	3	4	5		
Start Time/Stop Time	8:34 | 9:54	8:34 | 9:54	8:34 | 9:54	8:34 | 9:54	8:34 | 9:54		
Total Time (min)	80	80	80	80	80		
Flow Rate	15 | 15	15 | 15	15 | 15	15 | 15	15 | 15		
Total Volume (l)	1200	1200	1200	1200	1200		
FB ___ BFB FL ___ BFL	10/100	11/100	9/100	5/100	7/100	0/100	0/100
Filter Fiber Conc. (fibers/mm²)	12.73	14.01	11.46	6.36	8.91	—	—
Airborne Fiber Conc. (fibers/cc)	0.004	0.004	0.0034 (LOD)	ND<0.002	0.0023 (LOD)	—	—

STANDARDS
<0.01 f/cc – EPA Re-Occupancy Clearance Criteria
0.10 f/cc – OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc – OSHA 30 min Excursion Level
ND< – Non Detected, less than the limit of detection
Limit of Detection – 5.5 fibers/100 fields

Relinquished by: Tyler MacMurray Date 6/13/19 Time
Received By: Date 6/14/19 Time 0500
Relinquished by: Date Time
Received by Laboratory: Date Time

TRC Laboratory Asbestos Analytical Certifications:
AZ # AZ0944 CT#PH-0426 HI # L-09-004 LA #05011 MA # AA000052
ME # LA-0075 NJ # CT004 NY # 10980 RI # AAL-007
TX # 300354 VA # 3333000283 VT # AL910359 WV # LT000597
Philadelphia # 461 AIHA IHLAP # 100122 AIHA PAT# 100122

Condition of Samples:
Acceptable: Y ✓ N
Comments:
AIHA Registry Programs Asbestos Analyst Registry
Organization ID: 100122

Results relate only to the samples tested, as received by the laboratory. Verifiability of the laboratory's results is limited to the FB/mm².

QC Recount

Sample No.	FB/FL	Analyst/Date	Field/Lab
173	9/100	K Williamson 6/14/19	Lab

358

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Edition: August 2018
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AIR SAMPLE ANALYSIS REPORT

Project No.: 263951.00028.0001 Date: 6/28/19 Page 42 of 42

Client: UI

Sampler Print: Tyler MacGillivray Signature: Tyler MacGillivray Date: 6/28/19

Site: English Station Assembly Hall

Analyst Print: Tyler MacGillivray AAR ID: Signature: Tyler MacGillivray Date Analyzed: 6/28/19

Address: 50 Grand Ave New Haven, CT

QC Analyst Print: K Williamson Signature: K Williamson Date Analyzed: 7/10/19

Lab Supervisor Print: K Williamson Signature: K Williamson Date Issued: 7/10/19

Contact/Name: M. Kearney Phone:

Rotometer No.: L-25 Date of Calibration: 5/29/19 Lab No. 53990

Microscope No. 22002 Received in Lab for Analysis: ☐ QC Only: ☒

Sample Type: PCM ☒ TEM ☐ Other: Analysis Method: NIOSH 7400 ☒ AHERA ☐ Other:
Issue 2 8/15/94 A rules

Type of Sample: 1. Background 2. Prep. 3. Work Area 4. Environmental 5. Personal 6. Clearance

Relative Standard Deviation (Sr)		
Range Fibers/fields	Intra-lab Sr	Inter-lab Sr
<20/100	0.520	0.517
20.5 to 50/100	0.352	0.451
>50/100	0.295	0.387

Sample No.	257	258	259	260			
Sampling Location/Comments	Assembly North	Assembly East	Assembly South	SB			
Type of Sample	1	1	1				
Pump Number	1	2	3				
Start Time/Stop Time	8:25 14:23	8:25 14:23	8:25 14:23				
Total Time (min)	358	358	358				
Flow Rate	3 3	3 3	3 3				
Total Volume (l)	1074	1074	1074				
FB __ BFB FL BFL	6/100	4/100	7/100	0/100			
Filter Fiber Conc. (fibers/mm²)	7.64	5.09	8.91	-			
Airborne Fiber Conc. (fibers/cc)	0.0023	ND<0.0023	0.003	-			

STANDARDS
<0.01 f/cc – EPA Re–Occupancy Clearance Criteria
0.10 f/cc – OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc – OSHA 30 min Excursion Level
ND< – Non Detected, less than the limit of detection
Limit of Detection – 5.5 fibers/100 fields

Relinquished by: Tyler MacGillivray Date 7/9/19 Time 14:00
Received By: K Williamson Date 7/9/19 Time 1400
Relinquished by: Date Time
Received by Laboratory: Date Time

TRC Laboratory Asbestos Analytical Certifications:
AZ # AZ0944 CT#PH–0426 HI # L-09-004 LA #05011 MA # AA000052
ME # LA–0075 NJ # CT004 NY # 10980 RI # AAL–007
TX # 300354 VA # 3333000283 VT # AL910359 WV # LT000597
Philadelphia # 461 AIHA IHLAP # 100122 AIHA PAT# 100122
Results relate only to the samples tested, as received by the laboratory. Verifiability of the laboratory's results is limited to the FB/mm².

Condition of Samples:
Acceptable: Y ✓ N
Comments:
AIHA Registry Programs Asbestos Analyst Registry
Organization ID: 100122

QC Recount

Sample No.	FB/FL	Analyst/Date	Field/Lab

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AIR SAMPLE ANALYSIS REPORT

Project No.: 263951.00028.0001 Date: 6/28/19 Page 43 of 43

Client: UI

Sampler Print: Tyler Macbilvray Signature: Tyler Macbilvray Date: 6/28/19

Site: ES Station B Exterior Windows

Analyst Print: Tyler Macbilvray AAR ID: Signature: Tyler Macbilvray Date Analyzed: 6/28/19

Address: 510 Grand Ave New Haven, CT

QC Analyst Print: K. Williamson Signature: Date Analyzed: 7/10/19

Lab Supervisor Print K. Williamson Signature: Date Issued: 7/10/19

Contact/Name: M. Kearney Phone: Rotometer No.: L-25 Date of Calibration: 5/29/19 Lab No. 53990

Microscope No. 22002 Received in Lab for Analysis: ☐ QC Only: ☒

Sample Type: PCM ☒ TEM ☐ Other: Analysis Method: NIOSH 7400 ☒ AHERA ☐ Other:
Issue 2 8/15/94 A rules

Type of Sample: 1. Background 2. Prep. 3. Work Area 4. Environmental 5. Personal 6. Clearance

Relative Standard Deviation (Sr)		
Range Fibers/fields	Intra-lab Sr	Inter-lab Sr
<20/100	0.520	0.517
20.5 to 50/100	0.352	0.451
>50/100	0.295	0.387

Sample No.	261	262	263	264			
Sampling Location/Comments	Station B East	Station B South	Station B Int	FB			
Type of Sample	1	1	1				
Pump Number	4	5	6				
Start Time/Stop Time	8:10 | 14:02	8:10 | 14:02	8:10 | 14:02				
Total Time (min)	352	352	352				
Flow Rate	3 | 3	3 | 3	3 | 3				
Total Volume (l)	1056	1056	1056				
FB — BFB / FL — BFL	8/100	3/100	6/100	0/100			
Filter Fiber Conc. (fibers/mm²)	10.19	3.82	7.64	-			
Airborne Fiber Conc. (fibers/cc)	0.0034 (KW)	ND<0.0013	0.0023	-			

STANDARDS
<0.01 f/cc – EPA Re–Occupancy Clearance Criteria
0.10 f/cc – OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc – OSHA 30 min Excursion Level
ND< – Non Detected, less than the limit of detection
Limit of Detection – 5.5 fibers/100 fields

Relinquished by: Tyler Macbilvray Date 7/8/19 Time 14:00
Received By: Date 7/9/19 Time 1500
Relinquished by: Date Time
Received by Laboratory: Date Time

TRC Laboratory Asbestos Analytical Certifications:
AZ # AZ0944 CT#PH–0426 HI # L-09-004 LA #05011 MA # AA000052
ME # LA–0075 NJ # CT004 NY # 10980 RI # AAL–007
TX # 300354 VA # 3333000283 VT # AL910359 WV # LT000597
Philadelphia # 461 AIHA IHLAP # 100122 AIHA PAT# 100122

Condition of Samples:
Acceptable: Y ✓ N
Comments:
AIHA Registry Programs Asbestos Analyst Registry
Organization ID: 100122

Results relate only to the samples tested, as received by the laboratory. Verifiability of the laboratory's results is limited to the FB/mm².

QC Recount

Sample No.	FB/FL	Analyst/Date	Field/Lab
262	2/100	KW 7/10/19	Lab

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AIR SAMPLE ANALYSIS REPORT

Project No.: 263951.00028.0001 Date: 7/1/19 Page 44 of 44

Client: UI

Sampler Print: Tyler MacGillivray Signature: Tyler MacGillivray Date: 7/1/19

Site: ES Assembly Hall

Analyst Print: Tyler MacGillivray AAR ID: Signature: Tyler MacGillivray Date Analyzed: 7/1/19

Address: 510 Grand Ave
New Haven, CT

QC Analyst Print: Kee Williamson Signature: Kee Williamson Date Analyzed: 7/10/19

Lab Supervisor Print: Kee Williamson Signature: Kee Williamson Date Issued: 7/10/19

Contact/Name: M. Kearney Phone: Rotometer No.: L-25 Date of Calibration: 5/22/19 Lab No. 53990

Microscope No. 22002 Received in Lab for Analysis: ☐ QC Only: ☒

Relative Standard Deviation (Sr)		
Range Fibers/fields	Intra-lab Sr	Inter-lab Sr
<20/100	0.520	0.517
20.5 to 50/100	0.352	0.451
>50/100	0.295	0.387

Sample Type: PCM ☒ TEM ☐ Other: _____ Analysis Method: NIOSH 7400 ☒ AHERA ☐ Other: _____
Issue 2 8/15/94 A rules

Type of Sample: (1. Background) 2. Prep. 3. Work Area 4. Environmental 5. Personal 6. Clearance

Sample No.	265	266	267				
Sampling Location/Comments	North	East	South				
Type of Sample	1	1	1				
Pump Number	1	2	3				
Start Time/Stop Time	800 | 16:45	800 | 16:45	800 | 16:45				
Total Time (min)	525	525	525				
Flow Rate	3 | 3	3 | 3	3 | 3				
Total Volume (l)	1575	1575	1575				
FB ___ BFB FL BFL	6/100	4/100	9/100				
Filter Fiber Conc. (fibers/mm²)	7.64	5.09	11.46				
Airborne Fiber Conc. (fibers/cc)	0.002 ✓	ND< 0.002 ✓	0.0023 (VP)				

STANDARDS
<0.01 f/cc – EPA Re–Occupancy Clearance Criteria
0.10 f/cc – OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc – OSHA 30 min Excursion Level
ND< – Non Detected, less than the limit of detection
Limit of Detection – 5.5 fibers/100 fields

Relinquished by: Tyler MacGillivray Date 7/9/19 Time 14:00
Received By: _____ Date 7/9/19 Time 1500
Relinquished by: _____ Date _____ Time _____
Received by Laboratory: _____ Date _____ Time _____

TRC Laboratory Asbestos Analytical Certifications:
AZ # AZ0944 CT#PH–0426 HI # L-09-004 LA #05011 MA # AA000052
ME # LA–0075 NJ # CT004 NY # 10980 RI # AAL–007
TX # 300354 VA # 3333000283 VT # AL910359 WV # LT000597
Philadelphia # 461 AIHA IHLAP # 100122 AIHA PAT# 100122

Condition of Samples: ✓
Acceptable: Y ___ N ___
Comments: _____
AIHA Registry Programs Asbestos Analyst Registry
Organization ID: 100122

Results relate only to the samples tested, as received by the laboratory. Verifiability of the laboratory's results is limited to the FB/mm².

QC Recount

Sample No.	FB/FL	Analyst/Date	Field/Lab

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AIR SAMPLE ANALYSIS REPORT

Project No.: 263951.00028.0001 Date: 7/1/19 Page 45 of 45

Client: UI

Sampler Print: Tyler Macalluray Signature: Tyler Macalluray Date: 7/1/19

Site: ES Assembly Hall Pump Room

Analyst Print: Tyler Macalluray AAR ID: Signature: Tyler Macalluray Date Analyzed: 7/1/19

Address: 510 Grand Ave New Haven, CT

QC Analyst Print: K Williamson Signature: Date Analyzed: 7/10/19

Lab Supervisor Print: K Williamson Signature: Date Issued: 7/10/19

Contact/Name: M. Kearney Phone:

Rotometer No.: H-21 Date of Calibration: 5/20/19 Lab No. 53990

Microscope No. Received in Lab for Analysis: ☐ QC Only: ☒

Sample Type: PCM ☒ TEM ☐ Other: Analysis Method: NIOSH 7400 ☒ AHERA ☐ Other:
Issue 2 8/15/94 A rules

Type of Sample: 1. Background 2. Prep. 3. Work Area 4. Environmental 5. Personal 6. Clearance

Relative Standard Deviation (Sr)		
Range Fibers/fields	Intra-lab Sr	Inter-lab Sr
<20/100	0.520	0.517
20.5 to 50/100	0.352	0.451
>50/100	0.295	0.387

Sample No.	268	269	270	271	272	273	274
Sampling Location/Comments	Pump Room North	Pump Room West	Pump Room South	Pump Room East	Pump Room Center	SB	FB
Type of Sample	6	6	6	6	6		
Pump Number	1	2	3	4	5		
Start Time/Stop Time	1243 | 1403	1243 | 1403	1243 | 1403	1243 | 1403	1243 | 1403		
Total Time (min)	80	80	80	80	80		
Flow Rate	15 | 15	15 | 15	15 | 15	15 | 15	15 | 15		
Total Volume (l)	1200	1200	1200	1200	1200		
FB — BFB / FL — BFL	6/100	7/100	5/100	9/100	8/100	0/100	0/100
Filter Fiber Conc. (fibers/mm²)	7.64	8.91 (VW)	6.36 ✓	11.46 (VW)	10.14	—	—
Airborne Fiber Conc. (fibers/cc)	0.002 ✓	0.0023	NDL 0.002	0.0034	0.003 ✓	—	—

STANDARDS
<0.01 f/cc – EPA Re–Occupancy Clearance Criteria
0.10 f/cc – OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc – OSHA 30 min Excursion Level
ND< – Non Detected, less than the limit of detection
Limit of Detection – 5.5 fibers/100 fields

Relinquished by: Tyler Macalluray Date 7/9/19 Time 14:00
Received By: Date 7/10/19 Time 1500
Relinquished by: Date Time
Received by Laboratory: Date Time

TRC Laboratory Asbestos Analytical Certifications:
AZ # AZ0944 CT#PH–0426 HI # L-09-004 LA #05011 MA # AA000052
ME # LA–0075 NJ # CT004 NY # 10980 RI # AAL–007
TX # 300354 VA # 3333000283 VT # AL910359 WV # LT000597
Philadelphia # 461 AIHA IHLAP # 100122 AIHA PAT# 100122

Condition of Samples:
Acceptable: Y ✓ N
Comments:
AIHA Registry Programs Asbestos Analyst Registry
Organization ID: 100122

Results relate only to the samples tested, as received by the laboratory. Verifiability of the laboratory's results is limited to the FB/mm².

QC Recount

Sample No.	FB/FL	Analyst/Date	Field/Lab
272	6/100	7/10/19	lab

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AIR SAMPLE ANALYSIS REPORT

Project No.: 263951.00028.0001 Date: 7/2/19 Page 46 of 46

Client: UI

Sampler Print: Tyler Macbillivray Signature: Tyler Macbillivray Date: 7/2/19

Site: ES Aux buildings

Analyst Print: Tyler Macbillivray AAR ID: Signature: Tyler Macbillivray Date Analyzed: 7/2/19

Address: 510 Grand Ave New Haven, CT

QC Analyst Print: K Williamson Signature: Date Analyzed: 7/10/19

Lab Supervisor Print: K Williamson Signature: Date Issued: 7/10/19

Contact/Name: M. Karney Phone:

Rotometer No.: L-25 Date of Calibration: 5/29/19 Lab No. 53990

Relative Standard Deviation (Sr)		
Range Fibers/fields	Intra-lab Sr	Inter-lab Sr
<20/100	0.520	0.517
20.5 to 50/100	0.352	0.451
>50/100	0.295	0.387

Microscope No. 22002 Received in Lab for Analysis: ☐ QC Only: ☒

Sample Type: PCM ☒ TEM ☐ Other: Analysis Method: NIOSH 7400 ☒ AHERA ☐ Other:

Issue 2 8/15/94 A rules

Type of Sample: 1. Background 2. Prep. 3. Work Area 4. Environmental 5. Personal 6. Clearance

Sample No.	275	276	277	278	279	280	
Sampling Location/Comments	Assembly Hall East	Assembly Hall West	Contractor North	Contractor South	SB	FB	
Type of Sample	1	1	1	1			
Pump Number	1	2	3	4			
Start Time/Stop Time	7:50 | 16.30	7:50 | 16:30	7:50 | 16:30	7:50 | 16.30			
Total Time (min)	~~480~~ 520	520 ~~460~~	520 ~~460~~	520 460			
Flow Rate	2.5 | 2.5	2.5 | 2.5	2.5 | 2.5	2.5 | 2.5			
Total Volume (l)	~~1150~~ 1300	1300 ~~1150~~	~~1150~~ 1300	1300 ~~1150~~			
FB — BFB FL — BFL	6/100	8/100	7/100	3/100	0/100	0/100	
Filter Fiber Conc. (fibers/mm²)	7.64	10.19	8.91 (VW)	3.82	-	-	
Airborne Fiber Conc. (fibers/cc)	0.002 ✓	0.003 ✓	0.0023	ND<0.002 ✓	-	-	

STANDARDS
<0.01 f/cc – EPA Re–Occupancy Clearance Criteria
0.10 f/cc – OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc – OSHA 30 min Excursion Level
ND< – Non Detected, less than the limit of detection
Limit of Detection – 5.5 fibers/100 fields

Relinquished by: Tyler Macbillivray Date 7/8/19 Time 14.00

Received By: Date 7/10/19 Time 1500

Relinquished by: Date Time

Received by Laboratory: Date Time

TRC Laboratory Asbestos Analytical Certifications:
AZ # AZ0944 CT#PH–0426 HI # L-09-004 LA #05011 MA # AA000052
ME # LA–0075 NJ # CT004 NY # 10980 RI # AAL–007
TX # 300354 VA # 3333000283 VT # AL910359 WV # LT000597
Philadelphia # 461 AIHA IHLAP # 100122 AIHA PAT# 100122

Condition of Samples:
Acceptable: Y ✓ N
Comments:
AIHA Registry Programs Asbestos Analyst Registry
Organization ID: 100122

Results relate only to the samples tested, as received by the laboratory. Verifiability of the laboratory's results is limited to the FB/mm².

QC Recount

Sample No.	FB/FL	Analyst/Date	Field/Lab

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AIR SAMPLE ANALYSIS REPORT

Project No.: 263451.00028.0001 Date: 7/3/19 Page 47 of 47

Client: UI

Sampler Print: Tyler MacGillivray Signature: Tyler MacGillivray Date: 7/3/19

Site: Es Contractor/Storage building

AAR ID:

Analyst Print: Tyler MacGillivray Signature: Tyler MacGillivray Date Analyzed: 7/3/19

Address: 510 Grand Ave

QC Analyst Print: K Williamson Signature: K Williamson Date Analyzed: 7/10/19

New Haven, CT

Lab Supervisor Print: K Williamson Signature: K Williamson Date Issued: 7/10/19

Contact/Name: M. Kearney Phone:

Rotometer No.: HL-21 Date of Calibration: 5/20/19 Lab No. 53990

Relative Standard Deviation (Sr)		
Range Fibers/fields	Intra-lab Sr	Inter-lab Sr
<20/100	0.520	0.517
20.5 to 50/100	0.352	0.451
>50/100	0.295	0.387

Microscope No. 22002 Received in Lab for Analysis: ☐ QC Only: ☑

Sample Type: PCM ☒ TEM ☐ Other: Analysis Method: NIOSH 7400 ☒ AHERA ☐ Other:

Issue 2 8/15/94 A rules

Type of Sample: 1. Background 2. Prep. 3. Work Area 4. Environmental 5. Personal 6. Clearance

Sample No.	281	282	283	284	285	286	287
Sampling Location/Comments	Con North	Con South	Con East	Con West	Con Center	SB	FB
Type of Sample	6	6	6	6	6		
Pump Number	1	2	3	4	5		
Start Time/Stop Time	645 805	645 805	645 805	645 805	645 805		
Total Time (min)	80	80	80	80	80		
Flow Rate	15 15	15 15	15 15	15 15	15 15		
Total Volume (l)	1200	1200	1200	1200	1200		
FB — BFB FL — BFL	7/100	5/100	3/100	4/100	5/100	0/100	0/100
Filter Fiber Conc. (fibers/mm²)	8.91	6.36	3.82	5.04	6.36	—	—
Airborne Fiber Conc. (fibers/cc)	0.002	ND<0.002	ND<0.002	ND<0.002	ND<0.002	—	—

STANDARDS
<0.01 f/cc – EPA Re-Occupancy Clearance Criteria
0.10 f/cc – OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc – OSHA 30 min Excursion Level
ND< – Non Detected, less than the limit of detection
Limit of Detection – 5.5 fibers/100 fields

Relinquished by: Tyler MacGillivray Date 7/9/19 Time 14:00
Received By: Date 7/10/19 Time 1500
Relinquished by: Date Time
Received by Laboratory: Date Time

TRC Laboratory Asbestos Analytical Certifications:
AZ # AZ0944 CT#PH-0426 HI # L-09-004 LA #05011 MA # AA000052
ME # LA-0075 NJ # CT004 NY # 10980 RI # AAL-007
TX # 300354 VA # 3333000283 VT # AL910359 WV # LT000597
Philadelphia # 461 AIHA IHLAP # 100122 AIHA PAT# 100122

Condition of Samples: Acceptable: Y ✓ N
Comments:
AIHA Registry Programs Asbestos Analyst Registry Organization ID: 100122

Results relate only to the samples tested, as received by the laboratory. Verifiability of the laboratory's results is limited to the FB/mm².

QC Recount

Sample No.	FB/FL	Analyst/Date	Field/Lab
282	4/100	KW 7/10/19	Lab

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AIR SAMPLE ANALYSIS REPORT

Project No.: 263951.00028.0001 Date: 7/3/19 Page 48 of 48

Client: UI

Sampler Print: Tyler MacGillivray Signature: Tyler MacGillivray Date: 7/3/19

Site: ES Contractor / storage building

Analyst Print: Tyler MacGillivray AAR ID: Signature: Tyler MacGillivray Date Analyzed: 7/3/19

Address: 510 Grand Ave New Haven, CT

QC Analyst Print: C. Lemire Signature: Date Analyzed: 8/22/19

Lab Supervisor Print: K Williamson Signature: Date Issued: 8/22/19

Contact/Name: M. Kearney Phone: Rotometer No.: L-25 Date of Calibration: 5/20/19 Lab No. 54143

Microscope No. 22002 Received in Lab for Analysis: ☐ QC Only: ☑

Sample Type: PCM ☒ TEM ☐ Other: Analysis Method: NIOSH 7400 ☒ AHERA ☐ Other:
Issue 2 8/15/94 A rules

Type of Sample: 1. Background 2. Prep. 3. Work Area 4. Environmental 5. Personal 6. Clearance

Relative Standard Deviation (Sr)		
Range Fibers/fields	Intra-lab Sr	Inter-lab Sr
<20/100	0.520	0.517
20.5 to 50/100	0.352	0.451
>50/100	0.295	0.387

Sample No.	288	289	290				
Sampling Location/Comments	Con South	Con North	Con East				
Type of Sample	1	1	1				
Pump Number	1	2	3				
Start Time/Stop Time	800 14:15	800 14:15	800 14:15				
Total Time (min)	375	375	375				
Flow Rate	3 3	3 3	3 3				
Total Volume (l)	1125	1125	1125				
FB — BFB FL — BFL	6/100	4/100	5/100				
Filter Fiber Conc. (fibers/mm²)	7.64	5.09	6.36				
Airborne Fiber Conc. (fibers/cc)	0.002	NDx0.002	NDx0.002				

STANDARDS
<0.01 f/cc – EPA Re–Occupancy Clearance Criteria
0.10 f/cc – OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc – OSHA 30 min Excursion Level
ND< – Non Detected, less than the limit of detection
Limit of Detection – 5.5 fibers/100 fields

Relinquished by: Tyler MacGillivray Date 8/21/19 Time 17:00
Received By: Date 8/22/19 Time 0900
Relinquished by: Date Time
Received by Laboratory: Date Time

TRC Laboratory Asbestos Analytical Certifications:
AZ # AZ0944 CT#PH–0426 HI # L-09-004 LA #05011 MA # AA000052
ME # LA–0075 NJ # CT004 NY # 10980 RI # AAL–007
TX # 300354 VA # 3333000283 VT # AL910359 WV # LT000597
Philadelphia # 461 AIHA IHLAP # 100122 AIHA PAT# 100122

Condition of Samples:
Acceptable: Y ✓ N
Comments:
AIHA Registry Programs Asbestos Analyst Registry
Organization ID: 100122

Results relate only to the samples tested, as received by the laboratory. Verifiability of the laboratory's results is limited to the FB/mm².

QC Recount

Sample No.	FB/FL	Analyst/Date	Field/Lab

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AIR SAMPLE ANALYSIS REPORT

Project No.: 263951.00028.0001 Date: 7/8/19 Page 49 of 49

Client: UI

Sampler Print: Tyler MacGillivray Signature: Tyler MacGillivray Date: 7/8/19

Site: ES South Tank Area

Analyst Print: Tyler MacGillivray AAR ID: Signature: Tyler MacGillivray Date Analyzed: 7/31/19

Address: 510 Grand Ave New Haven, CT

QC Analyst Print: C. Lamire Signature: Date Analyzed: 8/22/19

Lab Supervisor Print: K. Williamson Signature: Date Issued: 8/22/19

Contact/Name: McKarney Phone:

Rotometer No.: L-25 Date of Calibration: Lab No. 54143

Relative Standard Deviation (Sr)		
Range Fibers/fields	Intra-lab Sr	Inter-lab Sr
<20/100	0.520	0.517
20.5 to 50/100	0.352	0.451
>50/100	0.295	0.387

Microscope No. 22002 Received in Lab for Analysis: ☐ QC Only: ☒

Sample Type: PCM ☒ TEM ☐ Other: Analysis Method: NIOSH 7400 ☒ AHERA ☐ Other:

Issue 2 8/15/94 A rules

Type of Sample: (1. Background) 2. Prep. 3. Work Area 4. Environmental 5. Personal 6. Clearance

Sample No.	291	292	293	294	295		
Sampling Location/Comments	Tank west	Tank East	Tank North	SB	FB		
Type of Sample	1	1	1				
Pump Number	1	2	3				
Start Time/Stop Time	8:10 15:00	8:10 15:00	8:10 15:00				
Total Time (min)	410	410	410				
Flow Rate	3 3	3 3	3 3				
Total Volume (l)	1230	1230	1230				
FB — BFB FL — BFL	5/100	7/100	12/100	0/100	0/100		
Filter Fiber Conc. (fibers/mm²)	6.36	8.91	15.28	—	—		
Airborne Fiber Conc. (fibers/cc)	ND< 0.002	0.0023	0.0045	—	—		

STANDARDS
<0.01 f/cc – EPA Re–Occupancy Clearance Criteria
0.10 f/cc – OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc – OSHA 30 min Excursion Level
ND< – Non Detected, less than the limit of detection
Limit of Detection – 5.5 fibers/100 fields

Relinquished by: Tyler MacGillivray Date 8/21/19 Time 17:00
Received By: Date 8/22/19 Time 0900
Relinquished by: Date Time
Received by Laboratory: Date Time

TRC Laboratory Asbestos Analytical Certifications:
AZ # AZ0944 CT#PH–0426 HI # L-09-004 LA #05011 MA # AA000052
ME # LA–0075 NJ # CT004 NY # 10980 RI # AAL–007
TX # 300354 VA # 3333000283 VT # AL910359 WV # LT000597
Philadelphia # 461 AIHA IHLAP # 100122 AIHA PAT# 100122

Condition of Samples: Acceptable: Y ✓ N
Comments:
AIHA Registry Programs Asbestos Analyst Registry Organization ID: 100122

Results relate only to the samples tested, as received by the laboratory. Verifiability of the laboratory's results is limited to the FB/mm².

QC Recount

Sample No.	FB/FL	Analyst/Date	Field/Lab
293	1/100	CL 8/22/19	Lab

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Windsor, CT 06095 860-298-9692

Edition: August 2018
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AIR SAMPLE ANALYSIS REPORT

Project No.: 263951.00028.0001 Date: 7/9/19 Page 50 of 50

Client: UI

Sampler Print: Tyler MacGillivray Signature: Tyler MacGillivray Date: 7/9/19

Site: ES Station B

Analyst Print: Tyler MacGillivray AAR ID: Signature: Tyler MacGillivray Date Analyzed: 7/9/19

Address: 510 Grand Ave New Haven, CT

QC Analyst Print: C. Lemire Signature: Date Analyzed: 8/22/19

Lab Supervisor Print: K. Williamson Signature: Date Issued: 8/22/19

Contact/Name: M. Karney Phone:

Rotometer No.: L-25 Date of Calibration: 5/20/19 Lab No. 54143

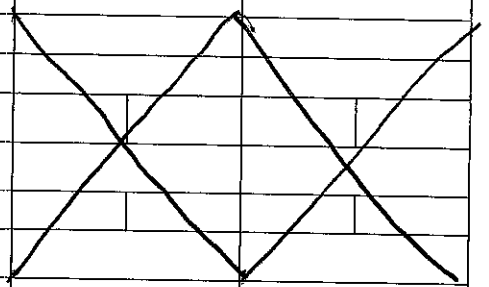
Relative Standard Deviation (Sr)		
Range Fibers/fields	Intra-lab Sr	Inter-lab Sr
<20/100	0.520	0.517
20.5 to 50/100	0.352	0.451
>50/100	0.295	0.387

Microscope No. 22002 Received in Lab for Analysis: ☐ QC Only: ☒

Sample Type: PCM ☒ TEM ☐ Other: Analysis Method: NIOSH 7400 ☒ AHERA ☐ Other:
Issue 2 8/15/94 A rules

Type of Sample: 1. Background 2. Prep. 3. Work Area 4. Environmental 5. Personal 6. Clearance

Sample No.	296	297	298	299	300	301	302
Sampling Location/Comments	East office kitchen	East office Critical	Reg Area East	Reg Area South	Reg Area West	SB	FB
Type of Sample	1	1	1	1	1		
Pump Number	1	2	3	4	5		
Start Time/Stop Time	7:50 / 9:25	7:50 / 9:25	9:54 / 14:06	9:54 / 14:06	9:54 / 14:06		
Total Time (min)	95	95	252	252	252		
Flow Rate	3 / 3	3 / 3	3 / 3	3 / 3	3 / 3		
Total Volume (l)	285	285	756	756	756		
FB — BFB / FL — BFL	3/100	2/100	5/100	7/100	4/100	0/100	0/100
Filter Fiber Conc. (fibers/mm²)	3.82	2.54	6.36	8.91	5.09	-	-
Airborne Fiber Conc. (fibers/cc)	ND< 0.009	ND<0.009	ND<0.0034	0.0045	ND<0.0034	-	-



STANDARDS
<0.01 f/cc – EPA Re-Occupancy Clearance Criteria
0.10 f/cc – OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc – OSHA 30 min Excursion Level
ND< – Non Detected, less than the limit of detection
Limit of Detection – 5.5 fibers/100 fields

Relinquished by: Tyler MacGillivray Date 8/21/19 Time 17:00
Received By: Date 8/22/19 Time 0900
Relinquished by: Date Time
Received by Laboratory: Date Time

TRC Laboratory Asbestos Analytical Certifications:
AZ # AZ0944 CT#PH-0426 HI # L-09-004 LA #05011 MA # AA000052
ME # LA-0075 NJ # CT004 NY # 10980 RI # AAL-007
TX # 300354 VA # 3333000283 VT # AL910359 WV # LT000597
Philadelphia # 461 AIHA IHLAP # 100122 AIHA PAT# 100122

Condition of Samples:
Acceptable: Y ✓ N
Comments:
AIHA Registry Programs Asbestos Analyst Registry
Organization ID: 100122

Results relate only to the samples tested, as received by the laboratory. Verifiability of the laboratory's results is limited to the FB/mm².

QC Recount

Sample No.	FB/FL	Analyst/Date	Field/Lab
300			

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AIR SAMPLE ANALYSIS REPORT

Project No.: 263951.00028.0021 Date: 7/10/19 Page 51 of 51

Client: LI

Sampler Print: Tyler Macalluray Signature: Tyler Macalluray Date: 7/10/19

Site: ES Guard Shack

Analyst Print: Tyler Macalluray AAR ID: Signature: Tyler Macalluray Date Analyzed: 7/10/19

Address: 510 Grand Ave New Haven, CT

QC Analyst Print: C. Comire Signature: Date Analyzed: 8/22/19

Lab Supervisor Print: K Williamson Signature: Date Issued: 8/22/19

Contact/Name: M. Kearney Phone:

Rotometer No.: L-25 Date of Calibration: 8/20/19 Lab No. 54143

Microscope No. 22052 Received in Lab for Analysis: ☐ QC Only: ☒

Sample Type: PCM ☒ TEM ☐ Other: Analysis Method: NIOSH 7400 ☒ AHERA ☐ Other:
Issue 2 8/15/94 A rules

Type of Sample: 1. Background 2. Prep. 3. Work Area 4. Environmental 5. Personal 6. Clearance

Relative Standard Deviation (Sr)		
Range Fibers/fields	Intra-lab Sr	Inter-lab Sr
<20/100	0.520	0.517
20.5 to 50/100	0.352	0.451
>50/100	0.295	0.387

Sample No.	303	304	305	306	307	308	309
Sampling Location/Comments	North	East	South	West	Center	SB	FB
Type of Sample	6	6	6	6	6		
Pump Number	1	2	3	4	5		
Start Time/Stop Time	11:36 | 12:56	11:36 | 12:56	11:36 | 12:56	11:36 | 12:56	11:36 | 12:56		
Total Time (min)	80	80	80	80	80		
Flow Rate	15 | 15	15 | 15	15 | 15	15 | 15	15 | 15		
Total Volume (l)	1200	1200	1200	1200	1200		
FB — BFB FL — BFL	8/100	5/100	8/100	10/100	7/100	0/100	0/100
Filter Fiber Conc. (fibers/mm²)	10.19	6.36	10.19	12.73	8.91	-	-
Airborne Fiber Conc. (fibers/cc)	0.003	ND<0.002	0.003	0.004	0.002	-	-

STANDARDS
<0.01 f/cc – EPA Re-Occupancy Clearance Criteria
0.10 f/cc – OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc – OSHA 30 min Excursion Level
ND< – Non Detected, less than the limit of detection
Limit of Detection – 5.5 fibers/100 fields

Relinquished by: Tyler Macalluray Date 8/21/19 Time 17:00
Received By: Date 8/22/19 Time 0900
Relinquished by: Date Time
Received by Laboratory: Date Time

TRC Laboratory Asbestos Analytical Certifications:
AZ # AZ0944 CT#PH-0426 HI # L-09-004 LA #05011 MA # AA000052
ME # LA-0075 NJ # CT004 NY # 10980 RI # AAL-007
TX # 300354 VA # 3333000283 VT # AL910359 WV # LT000597
Philadelphia # 461 AIHA IHLAP # 100122 AIHA PAT# 100122

Condition of Samples:
Acceptable: Y ✓ N
Comments:
AIHA Registry Programs Asbestos Analyst Registry
Organization ID: 100122

Results relate only to the samples tested, as received by the laboratory. Verifiability of the laboratory's results is limited to the FB/mm².

QC Recount

Sample No.	FB/FL	Analyst/Date	Field/Lab
303	2/100	CL 8/22/19	Lab

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AIR SAMPLE ANALYSIS REPORT

Project No.: 263951.000228.0001 Date: 7/10/19 Page 52 of 52

Client: UI

Sampler Print: Tyler MacGillivray Signature: Tyler MacGillivray Date: 7/10/19

Site: ES Guard shack AAR ID:

Analyst Print: Tyler MacGillivray Signature: Tyler MacGillivray Date Analyzed: 7/10/19

Address: 510 Grand Ave

QC Analyst Print: C. Lemire Signature: Date Analyzed: 8/22/19

New Haven, CT

Lab Supervisor Print: K. Williamson Signature: Date Issued: 8/22/19

Contact/Name: M. Kearney Phone: Rotometer No.: L-25 Date of Calibration: 5/29/19 Lab No. 54143

Microscope No. 22002 Received in Lab for Analysis: ☐ QC Only: ☒

Sample Type: PCM ☒ TEM ☐ Other: Analysis Method: NIOSH 7400 ☒ AHERA ☐ Other:
Issue 2 8/15/94 A rules

Type of Sample: 1. Background 2. Prep. 3. Work Area 4. Environmental 5. Personal 6. Clearance

Relative Standard Deviation (Sr)		
Range Fibers/fields	Intra-lab Sr	Inter-lab Sr
<20/100	0.520	0.517
20.5 to 50/100	0.352	0.451
>50/100	0.295	0.387

Sample No.	310	311	312	313	314	315	
Sampling Location/Comments	Guard shack East	Guard shack North	Guard shack West	Station B East side	Station B South	Station B West side	
Type of Sample	1	1	1	1	1	1	
Pump Number	1	2	3	4	5	6	
Start Time/Stop Time	8:05 | 14:27	8:05 | 14:27	8:05 | 14:27	12:45 | 14:27	12:45 | 14:27	12:45 | 14:27	
Total Time (min)	382	382	382	78	78	78	
Flow Rate	3 | 3	3 | 3	3 | 3	3 | 3	3 | 3	3 | 3	
Total Volume (l)	1146	1146	1146	234	234	234	
FB __ BFB FL __ BFL	7/100	4/100	9/100	VOID			
Filter Fiber Conc. (fibers/mm²)	8.41 (VF)	5.09	11.46		VOID	VOID	
Airborne Fiber Conc. (fibers/cc)	0.0073	ND<0.002	0.0084				

STANDARDS
<0.01 f/cc – EPA Re-Occupancy Clearance Criteria
0.10 f/cc – OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc – OSHA 30 min Excursion Level
ND< – Non Detected, less than the limit of detection
Limit of Detection – 5.5 fibers/100 fields

Relinquished by: Tyler MacGillivray Date 8/21/19 Time 17:00
Received By: Date 8/22/19 Time 0900
Relinquished by: Date Time
Received by Laboratory: Date Time

TRC Laboratory Asbestos Analytical Certifications:
AZ # AZ0944 CT#PH-0426 HI # L-09-004 LA #05011 MA # AA000052
ME # LA-0075 NJ # CT004 NY # 10980 RI # AAL-007
TX # 300354 VA # 3333000283 VT # AL910359 WV # LT000597
Philadelphia # 461 AIHA IHLAP # 100122 AIHA PAT# 100122

Condition of Samples: Acceptable: Y ✓ N
Comments:
AIHA Registry Programs Asbestos Analyst Registry
Organization ID: 100122

Results relate only to the samples tested, as received by the laboratory. Verifiability of the laboratory's results is limited to the FB/mm².

QC Recount

Sample No.	FB/FL	Analyst/Date	Field/Lab
311	01/100	CL 8/22/19	Lab

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AIR SAMPLE ANALYSIS REPORT

Project No.: 263951.00028.0001 Date: 7/11/19 Page 53 of 53

Client: UI

Sampler Print: Tyler Mabbitway Signature: Tyler Mabbitway Date: 7/11/19

Site: ES Guard shack

Analyst Print: Tyler Mabbitway AAR ID: Signature: Tyler Mabbitway Date Analyzed: 7/11/19

Address: 50 Grand Ave New Haven, CT

QC Analyst Print: C. Lemire Signature: Date Analyzed: 8/22/19

Lab Supervisor Print: K. Williamson Signature: Date Issued: 8/22/19

Contact/Name: M. Karney Phone:

Rotometer No.: L-25 Date of Calibration: 5/20/19 Lab No. 54143

Relative Standard Deviation (Sr)		
Range Fibers/fields	Intra-lab Sr	Inter-lab Sr
<20/100	0.520	0.517
20.5 to 50/100	0.352	0.451
>50/100	0.295	0.387

Microscope No. 22092 Received in Lab for Analysis: ☐ QC Only: ☒

Sample Type: PCM ☒ TEM ☐ Other: _____ Analysis Method: NIOSH 7400 ☒ AHERA ☐ Other: _____
Issue 2 8/15/94 A rules

Type of Sample: 1. Background 2. Prep. 3. Work Area 4. Environmental 5. Personal 6. Clearance

Sample No.	316	317	318	319	320		
Sampling Location/Comments	Guard shack East	Guard shack south	Guard shack West	SB	FB		
Type of Sample	1	1	1				
Pump Number	1	2	3				
Start Time/Stop Time	7:55 | 14:40	7:55 | 14:40	7:55 | 14:40				
Total Time (min)	405	405	405				
Flow Rate	3 | 3	3 | 3	3 | 3				
Total Volume (l)	1215	1215	1215				
FB ___ BFB FL BFL	5/100	6/100	10/100	0/100	0/100		
Filter Fiber Conc. (fibers/mm²)	6.36	7.64	12.73	-	-		
Airborne Fiber Conc. (fibers/cc)	ND<0.002	0.002	0.004	-	-		

STANDARDS
<0.01 f/cc – EPA Re-Occupancy Clearance Criteria
0.10 f/cc – OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc – OSHA 30 min Excursion Level
ND< – Non Detected, less than the limit of detection
Limit of Detection – 5.5 fibers/100 fields

Relinquished by: Tyler Mabbitway Date 8/21/19 Time 17:00
Received By: Date 8/22/19 Time 0900
Relinquished by: Date Time
Received by Laboratory: Date Time

TRC Laboratory Asbestos Analytical Certifications:
AZ # AZ0944 CT#PH-0426 HI # L-09-004 LA #05011 MA # AA000052
ME # LA-0075 NJ # CT004 NY # 10980 RI # AAL-007
TX # 300354 VA # 3333000283 VT # AL910359 WV # LT000597
Philadelphia # 461 AIHA IHLAP # 100122 AIHA PAT# 100122

Condition of Samples:
Acceptable: Y ✓ N ____
Comments: ____
AIHA Registry Programs Asbestos Analyst Registry
Organization ID: 100122

Results relate only to the samples tested, as received by the laboratory. Verifiability of the laboratory's results is limited to the FB/mm².

QC Recount

Sample No.	FB/FL	Analyst/Date	Field/Lab

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AIR SAMPLE ANALYSIS REPORT

Project No.: 263951.0028.0001 Date: 7/11/19 Page 54 of 54

Client: CL

Sampler Print: ElseBarneau Signature: Date: 7/12/19

Site: ES Older power plant

Analyst Print: ElseBarneau AAR ID: 9005 Signature: Date Analyzed: 7/12/19

Address: 510 Grand Ave New Haven, CT

QC Analyst Print: C. Lemire Signature: Date Analyzed: 8/22/19

Lab Supervisor Print: K. Williamson Signature: Date Issued: 8/22/19

Contact/Name: M. Kearney Phone: 860 298 9692 Rotometer No.: L-40 Date of Calibration: 6/17/19 Lab No. 54143

Microscope No. 7G0271 Received in Lab for Analysis: ☐ QC Only: ~~☑~~

Sample Type: PCM ☑ TEM ☐ Other: _____ Analysis Method: NIOSH 7400 ☑ A rules ☐ AHERA ☐ Other: _____
Issue 2 8/15/94

Type of Sample: 1. Background 2. Prep. 3. Work Area 4. Environmental 5. Personal 6. Clearance

Relative Standard Deviation (Sr)		
Range Fibers/fields	Intra-lab Sr	Inter-lab Sr
<20/100	0.520	0.517
20.5 to 50/100	0.352	0.451
>50/100	0.295	0.387

Sample No.	321	322	323	324	325	326	327/328
Sampling Location/Comments	~~east~~ of E. perimeter	South side of E. perimeter	north of E. perimeter	west end of south lot (south perimeter bldg)	east end of south lot →	adjacent to south wall of bldg	FB/FB
Type of Sample							
Pump Number							
Start Time/Stop Time	0816 / 1007	0818 / 1009	0818 / 1010	1008 / 1513	1011 / 1514	1011 / 1514	
Total Time (min)	~~107~~ 111	111	111	305	303	303	
Flow Rate	3.0 / 3.0	3.0 / 3.0	3.0 / 3.0	3.0 / 3.0	3.0 / 3.0	3.0 / 3.0	
Total Volume (l)	~~321~~ 333	333	333	915	909	909	
FB __ BFB FL BFL	2/100	0.5/100	0/100	0/100	1.5/100	2/100	0/100 / 0/100
Filter Fiber Conc. (fibers/mm²)	2.5	0.6	0	0	1.9	2.5	~~0~~ / ~~0~~
Airborne Fiber Conc. (fibers/cc)	nd<0.008	nd<0.008	nd<0.008	nd<0.003	nd<0.003	nd<0.003	— / —

STANDARDS
<0.01 f/cc – EPA Re-Occupancy Clearance Criteria
0.10 f/cc – OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc – OSHA 30 min Excursion Level
ND< – Non Detected, less than the limit of detection
Limit of Detection – 5.5 fibers/100 fields

Relinquished by: _____ Date 7/12/19 Time _____
Received By: Tyler Moynihan Date 7/15/19 Time 0700
Relinquished by: Tyler Moynihan Date 8/21/19 Time 1700
Received by Laboratory: _____ Date 8/22/19 Time 0900

TRC Laboratory Asbestos Analytical Certifications:
AZ # AZ0944 CT#PH-0426 HI # L-09-004 LA #05011 MA # AA000052
ME # LA-0075 NJ # CT004 NY # 10980 RI # AAL-007
TX # 300354 VA # 3333000283 VT # AL910359 WV # LT000597
Philadelphia # 461 AIHA IHLAP # 100122 AIHA PAT# 100122

Condition of Samples: Acceptable: Y ✓ N _____
Comments: _____
AIHA Registry Programs Asbestos Analyst Registry Organization ID: 100122

Results relate only to the samples tested, as received by the laboratory. Verifiability of the laboratory's results is limited to the FB/mm².

QC Recount

Sample No.	FB/FL	Analyst/Date	Field/Lab
326	1/100	CL 8/22/19	Lab

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AIR SAMPLE ANALYSIS REPORT

Project No.: 263951.00028.0001 Date: 7/22/19 Page 55 of 55

Client: UI

Sampler Print: Tyler MacGillivray Signature: Tyler MacGillivray Date: 7/22/19

Site: ES Station B Demo

Analyst Print: Tyler MacGillivray AAR ID: Signature: Tyler MacGillivray Date Analyzed: 7/22/19

Address: 510 Grand Ave, New Haven, CT

QC Analyst Print: C. Lemire Signature: Date Analyzed: 8/22/19

Lab Supervisor Print: Signature: Date Issued: 8/22/19

Contact/Name: M. Keaney Phone:

Rotometer No.: L-25 Date of Calibration: 5/2019 Lab No. 54143

Microscope No. 22002 Received in Lab for Analysis: ☐ QC Only: ☒

Sample Type: PCM ☒ TEM ☐ Other: Analysis Method: NIOSH 7400 ☒ AHERA ☐ Other:

Issue 2 8/15/94 A rules

Type of Sample: 1. Background 2. Prep. 3. Work Area 4. Environmental 5. Personal 6. Clearance

Relative Standard Deviation (Sr)		
Range Fibers/fields	Intra-lab Sr	Inter-lab Sr
<20/100	0.520	0.517
20.5 to 50/100	0.352	0.451
>50/100	0.295	0.387

Sample No.	329	330	331	332	333	334	
Sampling Location/Comments	South East corner	South West Corner	North East ~~North West~~	North West corner	SB	FB	
Type of Sample	1	1	1	1			
Pump Number	1	2	3	4			
Start Time/Stop Time	8:54 | 14:54	8:56 | 14:56	8:58 | 14:58	9:00 | 15:00			
Total Time (min)	360	360	360	360			
Flow Rate	3 | 3	3 | 3	3 | 3	3 | 3			
Total Volume (l)	1080	1080	1080	1080			
FB __ BFB FL __ BFL	0/100	5/100	4/100	12/100	0/100	0/100	
Filter Fiber Conc. (fibers/mm²)	7.64	6.36	504	15.28	-	-	
Airborne Fiber Conc. (fibers/cc)	0.002 ✓	ND<0.002 ✓	ND<0.002 ✓	0.005 ✓	-	-	

STANDARDS
<0.01 f/cc – EPA Re–Occupancy Clearance Criteria
0.10 f/cc – OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc – OSHA 30 min Excursion Level
ND< – Non Detected, less than the limit of detection
Limit of Detection – 5.5 fibers/100 fields

Relinquished by: Tyler MacGillivray Date 8/21/19 Time 17:00
Received By: Date 8/22/19 Time 0900
Relinquished by: Date Time
Received by Laboratory: Date Time

TRC Laboratory Asbestos Analytical Certifications:
AZ # AZ0944 CT#PH–0426 HI # L-09-004 LA #05011 MA # AA000052
ME # LA–0075 NJ # CT004 NY # 10980 RI # AAL–007
TX # 300354 VA # 3333000283 VT # AL910359 WV # LT000597
Philadelphia # 461 AIHA IHLAP # 100122 AIHA PAT# 100122

Condition of Samples: Acceptable: Y ✓ N
Comments:
AIHA Registry Programs Asbestos Analyst Registry Organization ID: 100122

Results relate only to the samples tested, as received by the laboratory. Verifiability of the laboratory's results is limited to the FB/mm².

QC Recount

Sample No.	FB/FL	Analyst/Date	Field/Lab
332	0/100	CL 8/28/19	Lab

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AIR SAMPLE ANALYSIS REPORT

Project No.: 263951.00028.0001 Date: 7/23/19 Page 56 of 56

Client: UI

Sampler Print: Tyler MacGillivray Signature: Tyler MacGillivray Date: 7/23/19

Site: ES Station B Demo

Analyst Print: Tyler MacGillivray AAR ID: Signature: Tyler MacGillivray Date Analyzed: 7/23/19

Address: 510 Grand Ave

QC Analyst Print: C Lemire Signature: Date Analyzed: 8/22/19

New Haven, CT

Lab Supervisor Print: K Williamson Signature: Date Issued: 8/22/19

Contact/Name: M. Karney Phone: Rotometer No.: L-25 Date of Calibration: 5/22/18 Lab No. 54143

Relative Standard Deviation (Sr)		
Range Fibers/fields	Intra-lab Sr	Inter-lab Sr
<20/100	0.520	0.517
20.5 to 50/100	0.352	0.451
>50/100	0.295	0.387

Microscope No. 22002 Received in Lab for Analysis: ☐ QC Only: ☒

Sample Type: PCM ☒ TEM ☐ Other: _____ Analysis Method: NIOSH 7400 ☒ AHERA ☐ Other: _____

Issue 2 8/15/94 A rules

Type of Sample: 1. Background 2. Prep. 3. Work Area 4. Environmental 5. Personal 6. Clearance

Sample No.	335	336	337	338	339	340	
Sampling Location/Comments	South East	South West	North East	North West	SB	FB	
Type of Sample	1	1	1	1			
Pump Number	1	2	3	4			
Start Time/Stop Time	7:42 / 15:02	7:44 / 15:04	7:46 / 15:06	7:48 / 15:08			
Total Time (min)	440	440	440	440			
Flow Rate	3 / 3	3 / 3	3 / 3	3 / 3			
Total Volume (l)	1320	1320	1320	1320			
FB __ BFB FL BFL	3/100	5/100	4/100	3/100	0/100	0/100	
Filter Fiber Conc. (fibers/mm²)	3.82	6.36	5.09	3.82	-	-	
Airborne Fiber Conc. (fibers/cc)	ND<0.002	ND<0.002	ND<0.002	ND<0.002	-	-	

STANDARDS
<0.01 f/cc – EPA Re–Occupancy Clearance Criteria
0.10 f/cc – OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc – OSHA 30 min Excursion Level
ND< – Non Detected, less than the limit of detection
Limit of Detection – 5.5 fibers/100 fields

Relinquished by: Tyler MacGillivray Date 8/21/19 Time 17:00

Received By: K Williamson Date 8/22/19 Time 0902

Relinquished by: _____ Date _____ Time _____

Received by Laboratory: _____ Date _____ Time _____

TRC Laboratory Asbestos Analytical Certifications:
AZ # AZ0944 CT#PH–0426 HI # L-09-004 LA #05011 MA # AA000052
ME # LA–0075 NJ # CT004 NY # 10980 RI # AAL–007
TX # 300354 VA # 3333000283 VT # AL910359 WV # LT000597
Philadelphia # 461 AIHA IHLAP # 100122 AIHA PAT# 100122

Condition of Samples: ✓
Acceptable: Y ✓ N _____
Comments: _____
AIHA Registry Programs Asbestos Analyst Registry
Organization ID: 100122

Results relate only to the samples tested, as received by the laboratory. Verifiability of the laboratory's results is limited to the FB/mm².

QC Recount

Sample No.	FB/FL	Analyst/Date	Field/Lab

TRC 21 Griffin Road North Windsor, CT 06095 860-298-9692

Edition: August 2018
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AIR SAMPLE ANALYSIS REPORT

Project No.: 263951.00028.0001 Date: 7/24/19 Page 57 of 57

Client: UI

Sampler Print: Tyler MacGillivray Signature: Tyler MacGillivray Date: 7/24/19

Site: ES Station B Demo

Analyst Print: Tyler MacGillivray AAR ID: Signature: Tyler MacGillivray Date Analyzed: 7/24/19

Address: 510 Grand Ave New Haven, CT

QC Analyst Print: C. Lemire Signature: Date Analyzed: 8/20/19

Lab Supervisor Print: K Williamson Signature: Date Issued: 8/22/19

Contact/Name: M. Kenney Phone: Rotameter No.: L-25 Date of Calibration: 5/20/19 Lab No. 54143

Microscope No. 22002 Received in Lab for Analysis: ☐ QC Only: ☒

Sample Type: PCM ☒ TEM ☐ Other: _____ Analysis Method: NIOSH 7400 ☐ AHERA ☐ Other: _____
Issue 2 8/15/94 A rules

Type of Sample (1. Background) 2. Prep. 3. Work Area 4. Environmental 5. Personal 6. Clearance

Relative Standard Deviation (Sr)		
Range Fibers/fields	Intra-lab Sr	Inter-lab Sr
<20/100	0.520	0.517
20.5 to 50/100	0.352	0.451
>50/100	0.295	0.387

Sample No.	341	342	343	344	345	346	
Sampling Location/Comments	North East	South East	South West	North West	SB	FB	
Type of Sample	1	1	1	1			
Pump Number	1	2	3	4			
Start Time/Stop Time	8:30 | 14:50	8:24 | 14:54	8:26 | 14:56	8:30 | 15:00			
Total Time (min)	390	390	390	390			
Flow Rate	3 | 3	3 | 3	3 | 3	3 | 3			
Total Volume (l)	1170	1170	1170	1170			
FB __ BFB FL __ BFL	7/100	4/100	6/100	8/100	0/100	0/100	
Filter Fiber Conc. (fibers/mm²)	8.91 (VW)	5.09	7.64	10.19	–	–	
Airborne Fiber Conc. (fibers/cc)	0.0073 ✓	ND<0.007 ✓	0.002 ✓	0.003 ✓	–	–	

STANDARDS
<0.01 f/cc – EPA Re-Occupancy Clearance Criteria
0.10 f/cc – OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc – OSHA 30 min Excursion Level
ND< – Non Detected, less than the limit of detection
Limit of Detection – 5.5 fibers/100 fields

Relinquished by: Tyler MacGillivray Date 8/21/19 Time 17:00
Received By: _____ Date 8/22/19 Time 0900
Relinquished by: _____ Date _____ Time _____
Received by Laboratory: _____ Date _____ Time _____

TRC Laboratory Asbestos Analytical Certifications:
AZ # AZ0944 CT#PH-0426 HI # L-09-004 LA #05011 MA # AA000052
ME # LA-0075 NJ # CT004 NY # 10980 RI # AAL-007
TX # 300354 VA # 3333000283 VT # AL910359 WV # LT000597
Philadelphia # 461 AIHA IHLAP # 100122 AIHA PAT# 100122
Results relate only to the samples tested, as received by the laboratory. Verifiability of the laboratory's results is limited to the FB/mm².

Condition of Samples:
Acceptable: Y ✓ N _____
Comments: _____
AIHA Registry Programs Asbestos Analyst Registry Organization ID: 100122

QC Recount

Sample No.	FB/FL	Analyst/Date	Field/Lab
343	0/100	CL 8/22/19	Lab

TRC 21 Griffin Road North Windsor, CT 06095 860-298-9692

Edition: August 2018
Supersedes Previous Edition

AIR SAMPLE ANALYSIS REPORT

Project No.: 263451.00028.0001 Date: 7/25/19 Page 58 of 58

Client: UI

Sampler Print: Tyler MacGillivray Signature: Tyler MacGillivray Date: 7/25/19

Site: ES Station B Demo

AAR ID:

Analyst Print: Tyler MacGillivray Signature: Tyler MacGillivray Date Analyzed: 7/25/19

Address: 510 Grand Ave New Haven, CT

QC Analyst Print: C. Lemire Signature: Date Analyzed: 8/22/19

Lab Supervisor Print: Kevin Hannon Signature: Date Issued: 8/22/19

Contact/Name: M. Kamey Phone: Rotameter No.: L-25 Date of Calibration: 5/20/19 Lab No. 54143

Microscope No. 22002 Received in Lab for Analysis: ☐ QC Only: ☒

Sample Type: PCM ☒ TEM ☐ Other: Analysis Method: NIOSH 7400 ☒ AHERA ☐ Other:
Issue 2 8/15/94 A rules

Type of Sample: 1. Background 2. Prep. 3. Work Area 4. Environmental 5. Personal 6. Clearance

Relative Standard Deviation (Sr)		
Range Fibers/fields	Intra-lab Sr	Inter-lab Sr
<20/100	0.520	0.517
20.5 to 50/100	0.352	0.451
>50/100	0.295	0.387

Sample No.	347	348	349	350	351	352	
Sampling Location/Comments	North East	South East	South West	North West	SB	FB	
Type of Sample	1	1	1	1			
Pump Number	1	2	3	4			
Start Time/Stop Time	7:40 | 15:00	7:42 | 15:02	7:48 | 15:08	7:50 | 15:10			
Total Time (min)	440	440	440	440			
Flow Rate	3 | 3	3 | 3	3 | 3	3 | 3			
Total Volume (l)	1320	1320	1320	1320			
FB — BFB / FL — BFL	9/100	6/100	7/100	6/100	0/100	0/100	
Filter Fiber Conc. (fibers/mm²)	11.46	7.64	8.91	7.64	—	—	
Airborne Fiber Conc. (fibers/cc)	0.003 ✓	0.002 ✓	0.0023 ✓	0.002 ✓	—	—	

STANDARDS
<0.01 f/cc – EPA Re-Occupancy Clearance Criteria
0.10 f/cc – OSHA Permissible Exposure Limit (8 hr. TWA)
1.0 f/cc – OSHA 30 min Excursion Level
ND< – Non Detected, less than the limit of detection
Limit of Detection – 5.5 fibers/100 fields

Relinquished by: Tyler MacGillivray Date 8/21/19 Time 17:00
Received By: Date 8/22/19 Time 6902
Relinquished by: Date Time
Received by Laboratory: Date Time

TRC Laboratory Asbestos Analytical Certifications:
AZ # AZ0944 CT#PH-0426 HI # L-09-004 LA #05011 MA # AA000052
ME # LA-0075 NJ # CT004 NY # 10980 RI # AAL-007
TX # 300354 VA # 3333000283 VT # AL910359 WV # LT000597
Philadelphia # 461 AIHA IHLAP # 100122 AIHA PAT# 100122

Condition of Samples:
Acceptable: Y ✓ N
Comments:
AIHA Registry Programs Asbestos Analyst Registry
Organization ID: 100122

Results relate only to the samples tested, as received by the laboratory. Verifiability of the laboratory's results is limited to the FB/mm².

QC Recount

Sample No.	FB/FL	Analyst/Date	Field/Lab
350	5/100	CL 8/22/19	Lab