

**Table 1: Air Sampling Results. W.R. Grace Site; Hamilton Township, New Jersey.**

**Phase I Removal Action Perimeter Fiber Air Sampling Results, December 2003 - February 2004**

Date	Sampling Party	Station 1 Southwest [fibers/cc]	Station 2 Northwest [fibers/cc]	Station 3 Northeast [fibers/cc]	Station 4 Southeast [fibers/cc]	Station 5 Background (Northwest) [fibers/cc]	Station 6 Northeast (A13/Z14) [fibers/cc]	Station 7 North of Storm Sewer Line [fibers/cc]	Duplicate Samples [fibers/cc]
12/03/03	RP	<0.014	NS (pump failure)	<0.004	<0.005	<0.009			
12/03/03	EPA		<0.004		<0.004				
12/04/03	RP	<0.004	0.005	<0.004	<0.005	<0.004			
12/04/03	EPA			0.009	<0.004				
12/05/03	No sampling - precipitation								
12/08/03	RP	<0.004	<0.004	<0.004	<0.004	<0.004			
12/08/03	EPA			<0.004	<0.004				<0.004 (St. 4 Dup)
12/11/03	No sampling - precipitation								
12/12/03	RP	<0.003	0.008	<0.003	<0.003	<0.003			<0.003 (St. 4 Dup)
12/12/03	EPA		0.006		<0.003				
12/13/03	RP	0.004	<0.004	<0.004	0.004	<0.004			
12/13/03	EPA			<0.004	<0.004				
12/15/03	RP	<0.003	0.004	<0.003	<0.003	<0.003			
12/15/03	EPA			<0.003	<0.003				
12/16/03	RP	<0.003	<0.003	<0.003	<0.003	NS (filter damaged)			
12/16/03	EPA		<0.003	<0.003					
12/17/03	No sampling - precipitation								
12/18/03	RP	<0.003	0.004	<0.003	<0.003	0.004			
12/18/03	EPA		<0.003						
12/19/03	RP	<0.003	<0.003	<0.003	<0.003	<0.003			<0.003 (St. 2 Dup)
12/19/03	EPA								
12/20/03	RP	<0.005	<0.005	<0.005	<0.005	<0.005			
12/20/03	EPA								
12/22/03	RP	<0.003	0.003	0.004	<0.003	<0.003			
12/22/03	EPA		<0.003	0.006					<0.003 (St. 2 Dup)
12/23/03	RP	<0.003	<0.003	0.005	<0.003	<0.003			
12/23/03	EPA	<0.003		0.008					
01/05/04	No sampling - precipitation								
01/06/04	RP	0.007	0.025	0.017	0.005	<0.003			0.023 (St. 3 Dup)
01/06/04	EPA		0.016	0.024					
01/7/2004*	RP	0.035	0.054	0.038	0.030	<0.003			
01/7/2004*	EPA			0.044	0.014				0.031 (St.4 Dup)
01/08/04	RP	<0.003	0.019	0.013	0.003	0.003			
01/08/04	EPA		0.022	0.021					
01/09/04	RP	0.011	0.017	<0.003	<0.003	<0.003			0.012 (St. 1 Dup)
01/09/04	EPA		0.009	<0.003					
01/10/04	RP	0.008	0.008	<0.005	<0.005	0.007			

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01/10/04	EPA		<0.005	<0.005					
01/12/04	RP	0.005	0.017	<0.003	0.006	<0.003			
01/12/04	EPA		0.011	0.013					
01/13/2004*	RP	0.009	0.041	0.030	0.017	0.003			
01/13/2004*	EPA		0.043	0.024					
01/14/04	RP	0.016	0.012	<0.003	<0.003	<0.003			
01/14/04	EPA		0.018	0.007					
01/15/04	RP	0.004	<0.004	<0.005	<0.004	0.006			0.004 (St. 4 Dup)
01/15/04	EPA		0.013	0.005					
01/16/04	RP	0.003	0.009	0.014	0.013	0.006			
01/16/04	EPA		0.007	0.008					0.006 (St.2 Dup)
01/19/04	RP	<0.003	<0.003	<0.003	<0.003	<0.003			
01/19/04	EPA		<0.003	<0.003					
01/20/04	RP	<0.003	<0.003	<0.003	0.003	<0.003			
01/20/04	EPA		0.003	<0.003					
01/21/04	RP	<0.003	<0.003	<0.003	0.003	<0.003			<0.003 (St. 3 Dup)
01/21/04	EPA		<0.003	<0.003					
01/22/04	RP	<0.003	<0.003	<0.003	<0.003	<0.003			
01/22/04	EPA		<0.003	<0.003					
01/23/04	RP	<0.003	<0.003	<0.003	<0.003	<0.003			
01/23/04	EPA		0.005	<0.003					
01/24/04	RP		<0.004	<0.004	<0.004	<0.004	<0.004		
01/24/04	EPA			<0.003			<0.003		
01/26/04	No sampling - precipitation								
01/27/04	No sampling - precipitation								
01/28/04	RP		<0.004	<0.004	<0.004	<0.004	<0.004		
01/28/04	EPA			<0.004			<0.004		
01/29/04	RP		<0.003	<0.003	<0.003	<0.003	<0.003		<0.003 (St. 6 Dup)
01/29/04	EPA			<0.003			<0.003		
01/30/04	RP	<0.003	<0.003	<0.003		<0.003	<0.003		
01/30/04	EPA		<0.004				<0.003		
01/31/04	No sampling - precipitation								
02/02/04	No sampling - precipitation								
02/04/04	RP	<0.004	<0.003					<0.004	
02/04/04	EPA		<0.004						
02/05/04	RP	<0.003	<0.003					<0.003	
02/05/04	EPA	<0.003						<0.003	
02/09/04	No sampling - precipitation								
02/10/04	No sampling - precipitation								

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02/11/04	RP	0.007	0.039					0.019	0.023 (St. 7 Dup)
02/11/04	EPA		0.017					0.028	
02/12/04	No sampling - precipitation								
02/13/04	No sampling - precipitation								
02/17/04	RP	<0.003	<0.004					<0.004	
02/17/04	EPA		<0.004					<0.004	<0.004 (St. 7 Dup)
Maximum		0.035	0.054	0.044	0.030	0.007	<0.004	0.028	0.023

< denotes a sample without detected fibers; the numerical value is the detection limit for the sample

Results of 0.030 fibers/cc or above highlighted in yellow

\*: On 1/7/04 and 01/13/04, strong winds from the southwest blew across the site. Clouds of dust were observed that were carried in from Industrial Avenue. resulting in elevated fiber results at the upwind and downwind sampling locations.

cc - cubic centimeter

NS - No Sample

St. - Station.

RP-Responsible Party; 5 sampling locations daily (1 upwind background, 4 on perimeter fence) during excavating and loadout. reduced to 2-3 samples at the end of the removal action (minor excavating)

EPA- Environmental Protection Agency; 2 control sampling locations per day for Quality Assurance/Quality Control verification

The EPA locations were moved closer towards excavation/loadout areas, or supplemented with 3rd sampling location on the following days

- 12/13/03: third sampling station added , 40 ft. north of Station 4, downwind from excavation area, closest possible location on perimeter fence; <0.004 fibers/cc
- 12/18/03: sampling location moved from regular station to east (downwind) of decontamination and loading area; 0.004 fibers/cc
- 12/19/03: sampling location moved from regular station to east (downwind) of decontamination and loading area; <0.003 fibers/cc
- 12/19/03: sampling location moved from regular station to perimeter fence closest to excavation area, approx. grid location D6; 0.005 fibers/cc
- 12/20/03: sampling location moved from regular station to perimeter fence closest to excavation area, approx. grid location D6; <0.005 fibers/cc
- 12/20/03: sampling location moved from regular station to fenceline 40 foot north of Station 4, downwind of soil stockpile; <0.005 fibers/cc
- 2/4/2004: sampling location moved from regular station to 40 foot north of Station L4; <0.004 fibers/cc; duplicate result <0.004 fibers/cc

Analytical Method: Phase-Contrast Microscopy (PCM) Fiber Count by NIOSH Method 7400

Both the RP consultant and EPA collected one field blank sample per day. Fibers were not detected on any of the field blank samples.

Throughout the project, both the RP consultant and EPA also submitted one lot blank sample each for analysis. Neither sample had detectable fibers.