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September 13, 2016

Mr. David Nardone
Facilities Manager
Derby Board of Education
35 Fifth Street
Derby, Connecticut 06418

Re: Air Sampling for Airborne Asbestos at the Derby High School.

Dear Mr. Nardone:

TRC Environmental Corporation (TRC) representative David Webster collected air samples from forty six (46) locations within the Derby High School from August 29, 2016 through August 31, 2016. All samples were analyzed by phase contrast microscopy (PCM) using the NIOSH 7400 Analytical Method. Approximately 1,200 liters of air were collected for each sample. As required by the NIOSH 7400 Method, two (2) field blanks were collected for each day of sampling. PCM analysis determined that sample 10, collected from room G11 had a fiber concentration of 0.011 fibers per cubic centimeter (f/cc) which was slightly above the reoccupancy limit of 0.010 f/cc. It should be understood that PCM analysis, while being the least expensive analytical method for asbestos air sample analysis, has limitations. All airborne fibers identified by PCM analysis are considered asbestos. For this reason, sample 10 was sent for confirmation analysis by transmission electron microscopy (TEM) using the NIOSH 7402 Analytical Method. TEM analysis determined that there were no asbestos fibers in sample 10. All other samples collected were well below the reoccupancy level of 0.01 f/cc and did not require confirmation analysis.

The table below provides the sample locations and analytical results.

Table 1 Derby High School Asbestos Air Sampling				
Sample Number	Date Collected	Location	PCM Analysis	TEM Analysis
01	8/29/16	Field Blank	----	----
02	8/29/16	Field Blank	----	----
03	8/29/16	Room G07	ND<0.002	----
04	8/29/16	Room G08	0.008 f/cc	----
05	8/29/16	Room G09	0.006 f/cc	----
06	8/29/16	Room G06	0.007 f/cc	----
07	8/29/16	Room G05	0.008 f/cc	----
08	8/29/16	Room G04	0.008 f/cc	----
09	8/29/16	Room G10	0.009 f/cc	----
10	8/29/16	Room G11	0.011 f/cc	ND
11	8/29/16	Room G03	0.004 f/cc	----

Table 1 Derby High School Asbestos Air Sampling				
Sample Number	Date Collected	Location	PCM Analysis	TEM Analysis
12	8/29/16	Room 101	0.004 f/cc	----
13	8/29/16	Room G02	0.004 f/cc	----
14	8/29/16	Room G01	ND<0.002	----
15	8/29/16	Room 102	0.007 f/cc	----
16	8/29/16	Room 103	0.003 f/cc	----
17	8/29/16	Room 104	ND<0.002	----
18	8/29/16	Room 105	ND<0.002	----
19	8/29/16	Room 106	ND<0.002	----
20	8/29/16	Room 107	ND<0.002	----
21	8/29/16	Room 108	ND<0.002	----
22	8/30/16	Field Blank	----	----
23	8/30/16	Field Blank	----	----
24	8/30/16	Room 109/110	0.004 f/cc	----
25	8/30/16	Room 113	ND<0.002	----
26	8/30/16	Room 114	ND<0.002	----
27	8/30/16	Room 118	ND<0.002	----
28	8/30/16	Room 117	0.003 f/cc	----
29	8/30/16	Room 116	0.004 f/cc	----
30	8/30/16	Room 112	0.002 f/cc	----
31	8/30/16	Room 111	ND<0.002	----
32	8/30/16	Room 115	ND<0.002	----
33	8/30/16	Room 119	ND<0.002	----
34	8/30/16	Room 120	ND<0.002	----
35	8/30/16	Room 121	ND<0.002	----
36	8/30/16	Room 122	ND<0.002	----
37	8/30/16	Room 123	ND<0.002	----
38	8/30/16	Room 124/125	ND<0.002	----
39	8/30/16	Fitness Center	ND<0.002	----
40	8/30/16	Art 128	ND<0.002	----
41	8/30/16	Tech Ed 129	ND<0.002	----
42	8/30/16	Pre K North	ND<0.002	----
43	8/31/16	Field Blank	----	----
44	8/31/16	Field Blank	----	----
45	8/31/16	Music 133	ND<0.002	----
46	8/31/16	ISS	ND<0.002	----
47	8/31/16	Kitchen 136	ND<0.002	----
48	8/31/16	Room 135	ND<0.002	----
49	8/31/16	Guidance	ND<0.002	----
50	8/31/16	Main Office	ND<0.002	----
51	8/31/16	Senior Lounge/ Main Entry	0.005 f/cc	----
52	8/31/16	Room 130	0.003 f/cc	----

ND No Fibers Detected



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Attached are the PCM and TEM analytical reports. Please contact me at (860) 298-6266 or by e-mail at hlaliberte@trcsolutions.com if you need additional information.

Sincerely,

TRC ENVIRONMENTAL CORPORATION



Henry J. Laliberte
Senior Project Manager

