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March 22, 2004

Ref: 8EPR-SR

Mr. Lee Clark
1427 Three Mile Drive
Kalispell, MT 59901

RE: Personal monitoring data

Dear Lee:

When we met in Libby, you requested personal monitoring sample results pertaining to your work on the Libby project. I asked CDM to pull sampling results for all truck drivers with positive pressure cabs and to specifically break out your results. The sampling data is attached.

The first set of data, for personal ID 2904, is your data. The remainder are for other drivers. There are two columns of results - time weighted averages (TWA) and excursions. TWA's are collected over a longer period and are intended to characterize the daily average exposure, whereas excursions are collected over a shorter period and are intended to characterize potential peak exposures. Unless otherwise noted in the comments section, the samples were analyzed via phase contrast microscopy (PCM). PCM does not differentiate between asbestos fibers and non-asbestos fibers, whereas transmission electron microscopy (TEM) does. This means that structures that meet the size requirements for a "fiber," even if they are not asbestos, are counted in the PCM results. Generally, any PCM samples that exceed the OSHA TWA permissible exposure level (PEL) of .1 f/cc, or the OSHA short-term exposure limit (STEL) of 1 f/cc, are re-analyzed using TEM. All such samples in this data set were non-detect for asbestos by TEM. A "less than" symbol indicates the result was below the indicated detection limit of the analysis method.

If you have any questions, feel free to contact me at (303) 312-6748.

Sincerely,

Jim Christiansen
Remedial Project Manager

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Driver in Positive pressure cab				
Personal ID	SampleDate	TWA (f/cc)	Excursions (f/cc)	Comments
2904	7/20/2001	0.004	nc	
2904	8/4/2001	0.004	nc	
2904	8/23/2001	0.065	nc	
2904	8/30/2001	0.113	nc	non-detect for asbestos by TEM - 0.018 S/cc
2904	9/10/2001	0.082	0.168	Excursion non-detect for asbestos by TEM - <0.0317 S/cc
2904	9/13/2001	0.066	nc	
2904	9/19/2001	0.085	nc	
Personal ID	SampleDate	TWA (f/cc)	Excursions (f/cc)	Comments
7461	7/20/2001	0.003	nc	
4478	8/6/2001	0.004	<0.06	
5977	8/7/2001	<0.003	<0.060	
9714	8/8/2001	0.003	<0.060	
7936	8/9/2001	0.004	<0.059	
9381	8/10/2001	<0.006	nc	
7936	8/16/2001	0.004	<0.055	
2364	8/17/2001	0.008	0.1	
9714	8/18/2001	0.004	<0.055	
7936	8/22/2001	0.013	<0.057	
3495	8/24/2001	0.619	nc	non-detect for asbestos by TEM - <0.004 S/cc
9714	8/27/2001	0.074	nc	
3263	8/29/2001	0.06	nc	
2364	9/8/2001	<0.002	<0.044	
6406	9/18/2001	0.019	nc	
9714	9/21/2001	0.095	nc	
7558	9/26/2001	0.053	nc	
3973	9/29/2001	0.004	nc	
7558	10/1/2001	0.033	nc	
8069	10/3/2001	0.125	nc	non-detect for asbestos by TEM - <0.004 S/cc
0726	10/6/2001	0.042	nc	
8069	10/9/2001	0.043	nc	
8879	10/9/2001	0.067	nc	
9015	10/10/2001	0.032	nc	
8069	10/13/2001	0.045	nc	
7558	10/13/2001	0.013	nc	
6406	10/17/2001	0.006	nc	
9714	10/20/2001	0.004	nc	
9714	10/25/2001	0.028	nc	
9284	11/1/2001	<0.003	nc	
9714		<0.011	<0.045	
9714	8/24/2001	0.015	0.058	
9714	8/25/2001	0.018	nc	
1376	8/26/2001	0.01	<0.042	
9714	9/10/2001	0.015	<0.043	
9714	9/12/2001	0.005	<0.043	
6153	9/14/2001	0.010	<0.002	
9281	9/15/2001	0.012	nc	
9714	9/18/2001	0.040	nc	
9284	9/25/2001	0.029	nc	
6153	9/26/2001	0.02	nc	
9714	9/28/2001	0.033	nc	
6153	9/29/2001	<0.005	nc	
9714	10/1/2001	0.107	nc	non-detect for asbestos by TEM - <0.004 S/cc
9281	10/2/2001	<0.004	nc	
6153	10/3/2001	0.03	nc	
6153	10/9/2001	0.03	nc	
6153	10/10/2001	0.034	nc	
6153	10/18/2001	0.022	nc	
6153	10/24/2001	0.010	nc	
3973	8/12/2002	0.014	<0.043	
6153	8/13/2002	0.014	<0.043	
5762	8/14/2002	0.006	nc	
6153	8/20/2002	0.007	nc	
9015	8/22/2002	<0.007	<0.054	

2153	8/22/2002	<0.009	nc	
2364	8/23/2002	<0.004	<0.043	
2364	10/18/02	<0.014	nc	
9285	10/19/02	<0.004	nc	
3290	8/12/2002	0.043	NC	
3963	8/14/2002	0.011	<0.047	
3963	8/26/2002	0.017	NC	
3903	8/29/2002	0.007	NC	
9986	7/25/2003	<0.019	<0.043	
9986	7/26/2003	<0.077	<0.046	
9986	7/28/2003	0.007	<0.045	
3083	5/31/2003	<0.005	NC	
0232	6/2/03	0.01	NC	
0232	6/20/03	<0.004	<0.041	
0907	6/20/03	0.009	<0.043	
3319	9/8/03	0.017	<0.043	
4040	10/9/03	0.037	0.136	
6028	10/20/03	0.015	0.12	
0130	5/30/2003	0.08	nc	
0232	6/13/2003	0.004	nc	
9934	2/13/2004	0.005	nc	
9934	2/16/2004	0.008	nc	
TWA Geometric Mean		0.018		
Excursion Geometric Mean			0.110	
TWA - Time Weighted Average				
f/cc - fibers per cubic centimeter				
S/cc - structures per cubic centimeter				
TEM -Transmission electron microscopy				
nc - not collected				