

Memorandum

6 February, 2012

From: David Bussard
Director, Washington Division
National Center for Environment Assessment
U.S. Environmental Protection Agency

To: Diana Wong, Ph.D.
Designated Federal Officer
Science Advisory Board
U.S. EPA

Subject: References Requested by the SAB Review Panel for the peer review of the Draft Toxicological Review of Libby Amphibole Asbestos

Members of the SAB panel had several requests for access to copies of recent articles relevant to the subject toxicological review. A full citation of each article is included below with active hyperlinks to access information regarding the publication.

References from the EPA Presentation:

[Adgate, JL; Cho, SJ; Alexander, BH; Ramachandran, G; Raleigh, KK; Johnson, J; Messing, RB; Williams, AL; Kelly, J; Pratt, GC.](#) (2011). Modeling community asbestos exposure near a vermiculite processing facility: Impact of human activities on cumulative exposure. *J Expo Sci Environ Epidemiol* 21: 529-535.

[Alexander, BH; Raleigh, KK; Johnson, J; Mandel, JH; Adgate, JL; Ramachandran, G; Messing, RB; Eshenaur, T; Williams, A.](#) (2012). Radiographic evidence of nonoccupational asbestos exposure from processing libby vermiculite in minneapolis, Minnesota. *Environ Health Perspect* 120: 44-49.

[Antao, VC; Larson, TC; Horton, DK.](#) (In Press) Libby vermiculite exposure and risk of developing asbestos-related lung and pleural diseases. *Curr Opin Pulm Med* 18: 161-167.

[Clin, B; Paris, C; Ameille, J; Brochard, P; Conso, F; Gislard, A; Laurent, F; Letourneux, M; Luc, A; Schorle, E; Pairon, JC.](#) (2011). Do asbestos-related pleural plaques on HRCT scans cause restrictive impairment in the absence of pulmonary fibrosis. *Thorax* 66: 985-991.

[Larson, T; Lewin, M; Kapil, V; Gottschall, E; Rose, C; Antao, V.](#) (2009). Radiographic Abnormalities and Spirometry Results in a Cohort Exposed to Libby Amphibole. *Am J Respir Crit Care Med* 179: A5894.

[Larson, TC; Antao, VC; Bove, FJ; Cusack, C.](#) (2012). Association Between Cumulative Fiber Exposure and Respiratory Outcomes Among Libby Vermiculite Workers. *J Occup Environ Med* 54: 56-63.

[Lenters, V; Vermeulen, R; Dogger, S; Stayner, L; Portengen, L; Burdorf, A; Heederik, D.](#) (2011). A meta-analysis of asbestos and lung cancer: is better quality exposure assessment associated with steeper slopes of the exposure-response relationships. *Environ Health Perspect* 119: 1547-1555.

Supporting publications to the community exposure reconstruction for the Western Mineral Products Site:

[ATSDR](#) (Agency for Toxic Substances and Disease Registry). (2003). Health consultation: Exposure assessment: Western Mineral Products Site. Atlanta, GA.

[ATSDR](#) (Agency for Toxic Substances and Disease Registry). (2005). Final report of the Northeast Minneapolis Community Vermiculite Investigation (NMCVI) and worker/household study: Cohort identification and characterization. Atlanta, GA.

[ATSDR](#) (Agency for Toxic Substances and Disease Registry). (2012). Health Consultation: Residual soil and indoor asbestos assessment, Western Mineral Products Site. St. Paul, MN.

Other articles requested by the panel:

[Bernstein, DM; Rogers, RA; Sepulveda, R; Donaldson, K; Schuler, D; Gaering, S; Kunzendorf, P; Chevalier, J; Holm, SE.](#) (2011). Quantification of the pathological response and fate in the lung and pleura of chrysotile in combination with fine particles compared to amosite-asbestos following short-term inhalation exposure. *Inhal Toxicol* 23: 372-391.

[Cyphert, JM; Padilla-Carlin, DJ; Schladweiler, MC; Shannahan, JH; Nyska, A; Kodavanti, UP; Gavett, SH.](#) (2012). Long-term response of rats to single intratracheal exposure of libby amphibole or amosite. *J Toxicol Environ Health A* 75: 183-200.

[Fukagawa, NK; Li, M; Sabo-Attwood, T; Timblin, CR; Butnor, KJ; Gagne, J; Steele, C; Taatjes, DJ; Huber, S; Mossman, BT.](#) (2008). Inhaled Asbestos Exacerbates Atherosclerosis in Apolipoprotein E--Deficient Mice via CD4⁺ T Cells. *Environ Health Perspect* 116: 1218-1225.

[Marchand, LS; St-Hilaire, S; Putnam, EA; Serve, KM; Pfau, JC.](#) (2012). Mesothelial cell and anti-nuclear autoantibodies associated with pleural abnormalities in an asbestos exposed population of Libby MT. *Toxicol Lett* 208: 168-173.

[Shannahan, JH; Nyska, A; Cesta, M; Schladweiler, MC; Vallant, BD; Ward, WO; Ghio, AJ; Gavett, SH; Kodavanti, UP.](#) (2012a). Subchronic pulmonary pathology, iron overload, and transcriptional activity after libby amphibole exposure in rat models of cardiovascular disease. *Environ Health Perspect* 120: 85-91.

[Shannahan, JH; Ghio, AJ; Schladweiler, MC; Richards, JH; Andrews, D; Gavett, SH; Kodavanti, UP.](#) (2012b). Transcriptional activation of inflammasome components by Libby amphibole and the role of iron. *Inhal Toxicol* 24: 60-69.