## **HEXACHLOROBUTADIENE**

No comments were provided on the **health-related sections** of the CEPA PSL Draft Assessment Report on Hexachlorobutatiene (HCBD).

Comments on the **environmental sections** of the CEPA PSL Draft Assessment Report on Hexachlorobutadiene were provided by the Sarnia-Lambton Environmental Association.

Comments and responses are summarized below by Environment Canada. (All were based on the English version of the report).

Comment	Response
1. Substantial remediation efforts in the past	Some additional information about this
few years have virtually eliminated point	remediation work has been obtained by
sources, resulting in measurable reductions	Environment Canada. The draft Assessment
in ambient occurrence.	Report has been revised to reflect the
Since 1998, the discharge from the Cole	current situation regarding releases of
Drain has been virtually eliminated. The	hexachlorobutadiene from the Cole Drain.
industrial landfill that had been the primary	
source of HCBD to the Cole Drain was	
completely remediated and	
decommissioned, and the bed of the Cole	
Drain itself was remediated and restored in	
1998.	
With the completion of this work, and other	
industrial remediation projects completed	
during the 1990s, all potential point sources	
of HCBD along the industrial waterfront of	
the St. Clair River have been eliminated.	
2. Elevated levels of HCBD have been	The draft Assessment Report presents
identified in small areas of St. Clair River	support for the conclusion that sensitive
sediment; however, the statement	benthic organisms could be adversely
"sensitive benthic organisms could	affected by hexachlorobutadiene in
experience adverse effects" (Canada	sediments of the most contaminated section
Gazette p 2016, Draft Report p. 7, 19, and	of the St. Clair River.
31) is speculative. Recent integrated	The benthic community may contain many
assessment of the sediment areas (Moran, et	types of organisms that are not sensitive to
al $1997^1$ , and $1999^2$ ) concludes only that	hexachlorobutadiene, so the benthic
"contaminants are stressing the system".	community, as a whole, in the contaminated
The benthic component of this work	area may indeed be statistically
demonstrates that the benthic community in	indistinguishable from the reference areas.
the contaminated areas is statistically	
indistinguishable from the reference areas	
upstream, downstream and across the river	
from the areas of concern.	

3. Suspended sediment measurements in the St. Clair River have demonstrated a dramatic decline over time, as evidenced in the Chan data referenced in the draft report. Chan's work has continued since the 1989 values reported, and can be obtained from the investigator. Chan's data through early 1999 (unpublished) indicate that concentrations in suspended sediments have declined a further order of magnitude over the past decade. These data also demonstrate the success of the 1996 and 1998 remediation efforts.

The draft Assessment Report indicates that the concentration of hexachlorobutadiene in various compartments of the environment has declined significantly in recent years. The recent study indicates that this encouraging trend is continuing.

- Moran, T., D. Adams, K. Walker and B. Zajdlik. 1997. Lambton Industrial Society 1994/1995 St. Clair River Sediment Program Defining Spatial Extent and Environmental Conditions. Prepared for the LIS by Pollutech EnviroQuatics Limited, Point Edward, Ontario.
- 2 Moran, T. and B. Zajdlik. 1999. Lambton Industrial Society, St. Clair River Sediment Program, Establishment of a Reference Condition. Prepared for the LIS by Pollutech EnviroQuatics Limited, Point Edward, Ontario.