

TO: File

DATE: Oct. 4, 1995

FILE: 26000-03/CSSTG

RE: Procedure to establish Water Quality Standards used in Contaminated Sites Regulation.

- The following procedures were used to set the water quality standards of schedule 6 of draft 2.5 of the Contaminated Sites Regulation.
 - A. Selection of listed substances
 - All substances appearing in *Table A-3 Remediation Criteria for Water* of CCMIE's "Interim Canadian Environmental Quality Criteria for Contaminated Sites- Sept 1991" and for which criteria for either Drinking water (DW) and/or Aquatic life (AQ) and/or irrigation (IR) and/or Livestock watering (LW) are listed in Table A-3 were chosen for inclusion in schedule 6.
 - In addition, the following substances were included in schedule 6:
 - chlorine,
 - sulphide,
 - acenaphthene,
 - fluorene,
 - anthracene,
 - acridine,
 - fluoranthene,
 - vinyl chloride,
 - PCDDs and PCDFs, and
 - NAPLs

B. Standards for AQ, IR, and LW

- Schedule 6 standards represent either:
 1. BCE approved and/or working water quality criteria for aquatic life, irrigation or livestock, drawn from the WQB's "Approved and Working Criteria for Water Quality - 1995", or if no such BCE criteria was available,

2. CCME Water Quality criteria for aquatic life, irrigation or livestock watering as listed in Table A-3 *Remediation Criteria for Water* of CCME's "Interim Canadian Environmental Quality Criteria for Contaminated Sites - Sept 1991".

use TGT criteria

- The most stringent of the WQB's approved and working 30-day average or maximum criteria values was used to set schedule 6 AQ, IR and LW standards.
- In accordance with Section 4.2.4.1 of the CCME "Canadian Water Quality Guidelines" for all pesticides listed in schedule 6, for which no BCE approved and working livestock water quality criteria, or CCME Table A-3 livestock water remediation criteria exist, the LW standard is equivalent to the DW standard.

C. Standards for DW

- Schedule 6 standards represent either:
 1. The Canadian drinking water guideline value, drawn from Health Canada's "Guidelines for Canadian Drinking Water Quality - Fifth Edition, 1993", or if no such Canadian drinking water guideline was available,
 2. BCE approved drinking water quality criteria, drawn from the WQB's "Approved and Working Criteria for Water Quality - 1995".
- The most stringent of the Canadian drinking water guideline MAC, IMAC or AO values were used to set the schedule 6 DW standard
- BCE working drinking water quality criteria were not used to establish schedule 6 DW standards.
- For the following substances, recently approved but unpublished, Canadian drinking water guideline values, obtained from B. Willoughby (MOH), were used to set schedule 6 DW standards:
 - atrazine,
 - trihalomethanes, and
 - vinyl chloride