



**Orica Botany Groundwater
Treatment technologies
Preferred Options
Alternatives considered**

*Community workshop
20 July 2004*

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Technology Criteria

Meets emission standards

Does not contravene
Stockholm convention

Is energy efficient

Can be applied within the
time constraints of the
NCUA
Can recover resources

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PART 1: MONITORING

2003/2004 Northern Plumes Investigation

- Began: November 2003
- Confirmed: main contaminants are EDC & CTC
- Confirmed: highest concentrations of EDC are in deeper part of aquifer for northernmost plume (>25m) and shallow and deep groundwater for southernmost plume (5-25m)
- Also recorded: other volatile CHCs at low concentrations (<1mg/L)
- Key recommendation: further assessment of northern plumes to determine DNAPL presence.

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PART 1: MONITORING

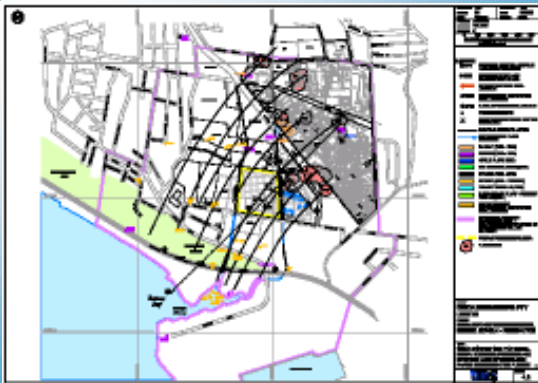
March 2004 Groundwater & Surface Water Monitoring

Main conclusions:

- Confirmed groundwater levels and flows are consistent with results in 1994, 1996, 1998 & 2000.
- There are up to 8 separate plumes in the 3 plume groups (Southern, Central, Northern) that overlap at various locations & at varying depths within the aquifer

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Continued over ...



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