

Excerpt from E.A.B. Report - Recommendations + Conditions. 29.

he concluded that there is some low-level contamination of the surface water.

In the opinion of the Board, the danger of possible ground-water contamination has been adequately addressed by the proponent, but the present continuing contamination of surface water constitutes the more immediate concern. The evidence indicates that there will be continuing leachate outbreaks,, especially during springtime, even though the number will decrease with time. These outbreaks will occur whether there is continued landfilling or not. It is hoped that continued landfilling will ensure the presence of personnel at the site who will be able to attend to this matter. The need to keep a watch for leachate springs and to take immediate remedial action cannot be over-emphasized. Mr. Leech has recommended the appointment of an environmental inspector to ensure the identification and correction of environmental concerns and the implementation of environmental protection measures. Certainly one of these concerns should be the lookout for leachate springs and their prompt repair.

RECOMMENDATION AND CONDITIONS

The Board hereby recommends that the application by the Regional Municipality of Halton for a Certificate of Approval to extend landfilling operations at the Burlington Landfill Site be approved, subject to the following conditions:

1. An access to the site from the north is not to be constructed and only the existing access from the North Service Road in the south is to be utilized.

2. Liquid industrial and hazardous waste including pathological waste; industrial, chemical and sewage sludges; septic tank pumpings; radioactive waste and processed organic waste shall not be accepted for disposal at the landfill site.

3. On or before December 31, 1984, the Regional Municipality of Halton shall submit for approval to the Director of the Environmental Approvals and Project Engineering Branch of the Ministry of the Environment, a site groundwater and surface water monitoring program. This program shall include (1) adequate surface water monitoring stations to measure any environmental impact on Falcon and Indian Creeks originating from the landfill, (2) a special program for the identification, delineation and characterization of any movement of contaminated groundwater and (3) a predictive component to assist in determining if and when contingency measures shall be implemented. The monitoring program shall be re-evaluated on an annual basis.

4. The Regional Municipality of Halton shall carry out the monitoring program as approved and with any amendments as required from time to time by the Director of the Central Region of the Ministry of the Environment. (4) The results of all analyses shall be submitted to the Director of the Central Region of the Ministry of the Environment within one month of each analysis being completed.

5. The Regional Municipality of Halton shall retain an environmental inspector. On or before December 31, 1984, the Regional Municipality of Halton shall submit to the Director of the Central Region of the Ministry of the Environment a job description which clearly outlines the full duties, responsibilities and qualifications of the environmental inspector.

6. The Regional Municipality of Halton shall submit an annual report to the Director of the Central Region of the Ministry of the Environment by December 31, 1984, and on December 31st of each year thereafter. Such reports shall include the following information:

- (a) the results of an interpretive analysis of all monitoring programs; such monitoring programs to include groundwater and surface water testing 4 times a year;
- (b) a yearly summary of volumes and weights by type of all wastes received at the site including a list of all vehicles refused entry to the site, together with reasons for any refusal;
- (c) all environmental and operational problems encountered during the operation of the site and any mitigative actions taken;
- (d) a copy of a log to be kept at the site identifying the time, location and magnitude of all leachate break-outs, the date and type of any corrective measures taken and including a map showing the location of all leachate break-outs;
- (e) a description of the quality and quantity of all leachate collected and discharged to the sanitary sewer system;

- (f) an assessment of the operation and performance of all leachate collection facilities and any gas control facilities;
- (g) the results of all routine inspections of the leachate collection facilities;
- (h) a summary report of the observations and recommendations of the environmental inspector;
- (i) a statement as to compliance with all conditions of approval.

7. On or before December 31, 1984, the Regional Municipality of Halton shall submit to the Director of the Environmental Approvals and Project Engineering Branch of the Ministry of the Environment a list of proposed contingency measures to be implemented, if necessary, to protect surface water and groundwater.

8. No landfilling shall take place on Phases A, B, C and D until details of the surface drainage works and sediment control measures, to be implemented during the operation and at the completion of landfilling, have been submitted by the Regional Municipality of Halton and approved by the Director of the Environmental Approvals and Project Engineering Branch of the Ministry of the Environment.

9. No landfilling shall take place in Phase A (on the assumption that final cover is left thereon) and in Phases B and D until final plan specifications and an engineer's report on the leachate collector systems have been submitted to and approved by the Director of the Environmental Approvals and Project Engineering Branch of the Ministry of the Environment.

10. No landfilling shall take place in Phases B and D until all bore holes, any gas or water wells and any other conduits for possible leachate movement within the actual landfill areas are identified and properly sealed to the satisfaction of the Director of the Environmental Approvals and Project Engineering Branch of the Ministry of the Environment. The proposed method of sealing the bore holes, wells and other conduits must be submitted by the Regional Municipality of Halton and approved by the Director of the Environmental Approvals and Project Engineering Branch of the Ministry of the Environment prior to such undertaking commencing.

11. No landfilling shall take place in Phase A (on the assumption that final cover is left thereon) and in Phases B and D until a site preparation report by a consulting engineering firm registered by the APEO, certifying that the site preparation work has been completed in accordance with the plans and specifications approved by the Director of the Environmental Approvals and Project Engineering Branch of the Ministry of the Environment, has been submitted to the Director of the Central Region of the Ministry of the Environment and until approval has been given in writing by that Director.

12. No landfilling shall take place in the Phase D area within 20 metres of the crest of the Falcon Creek valley.

13. No operation shall be carried out at the site after 120 days from these conditions becoming enforceable unless this certificate including the reasons for these conditions has been registered by the Applicant as an instrument in the appropriate Land Registry Office

against the title to the site and the duplicate registered copy thereof has been returned by the Applicant to the Director of Environmental Approvals and Project Engineering Branch, Ministry of the Environment.

14. No part of the landfilling site shall be conveyed prior to or after closing of the site to any person by the applicant or any transferee from the applicant without the prior approval of the Director of the Central Region of the Ministry of the Environment.

15. On or before December 31, 1985, the Regional Municipality of Halton shall submit a complete plan for the closure, long-term maintenance, long-term monitoring and after-use of the property to the Director of the Environmental Approvals and Project Engineering Branch of the Ministry of the Environment.

(a) This plan shall include:

- (i) plans for fencing and access control,
- (ii) details of final cover which, at a minimum, shall have a thickness of .9144 metres (3 feet), of which the top .3048 metres (1 foot) shall be soil that will support vegetative growth,
- (iii) details of the vegetative cover to be established,
- (iv) plans for use of the site after closure,
- (v) plans for continued monitoring of surface water and groundwater after closure,
- (vi) plans and schedules for routine inspection and maintenance of the site after closure including:
 - (a) actions to be taken to immediately control leachate outbreaks,

- (b) examination of the effectiveness of leachate collection systems and surface drainage works,
- (c) identification and mitigation of any on-site erosion.

(b) The Region's plans, as set out herein, shall be submitted only after consultation has taken place with the residential neighbours and the West Burlington Citizen's Group.

16. No waste shall be deposited at the site after a date on which both sufficient alternative capacity is available to receive waste at another site within the Regional Municipality and appropriate contours for final closure of the site have been achieved.

17. The Regional Municipality of Halton shall notify the Director of the Environmental Approvals and Project Engineering Branch of the Ministry of the Environment of the formal closure of the landfill site and schedule for implementation of the plan referred to above within fourteen (14) days from the date of final receipt of waste.

18. Within six months following the submission of the formal notice of site closure, two copies of as-constructed site plans including details of the final development contours, fill line, buffer zones, site boundaries, location of works, easements, monitoring stations, and pollution control facilities are to be submitted to the Director of the Environmental Approvals and Project Engineering Branch of the Ministry of the Environment.

19. Except as provided herein, there shall be no further landfilling at this site.