

APPLICATION MADE UNDER
REGULATION 164, R.R.O. 1980 OF
THE CONSERVATION AUTHORITIES ACT
R.S.O. 1980

NORTH HALF OF LOTS 2 AND 3
CONCESSION I AND SOUTH HALF OF
LOT 3 CONCESSION II
CITY OF BURLINGTON (SITE F)

OCTOBER 1986

REGIONAL MUNICIPALITY OF HALTON

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THE REGIONAL MUNICIPALITY OF HALTON

PUBLIC WORKS
DEPARTMENT

P.O. BOX 7000
2316 SOUTH SERVICE ROAD WEST
OAKVILLE, ONTARIO L6J 6E1
416/827-2151

1986 10 28

Halton Region Conservation Authority
310 Main Street
MILTON, Ontario
L9T 1P4

Attention: Mr. M. Stephen, General Manager

Dear Sir:

Re: Application for Approval under Regulation 164 of the
Conservation Authorities Act - Halton's Proposed New
Landfill - Site F (Burlington)

On 1986 10 22, Halton Regional Council approved Report CAO 268/86 which gave the authority to the Director of Public Works to submit, on behalf of Halton Region, an application made under Regulation 164, R.R.O. 1980 of the Conservation Authorities Act R.S.O. 1980 for approval for any straightening, changing, diverting or interfering with any channel of a river, creek, stream or watercourse required to design, construct and operate a proposed new landfill at the North Half of Lots 2 and 3 Concession I and South Half of Lot 3 Concession II in the City of Burlington (Site F), Regional Municipality of Halton.

Please be advised that Halton has applied to the Minister of the Environment for the passage of a regulation which would permit Halton to consolidate the hearing of an approval under Regulation 164 of the Conservation Authorities Act at a Consolidated Hearing before the Joint Board. However, we wish to submit this application and to take this opportunity to meet and work with the appropriate representatives of the Halton Region Conservation Authority to attempt to meet all the concerns of the Conservation Authority in respect to this matter.

..... 2

BURLINGTON

639-4540

HALTON HILLS
ACTON

853-0501

HALTON HILLS
GEORGETOWN

878-8113

MILTON

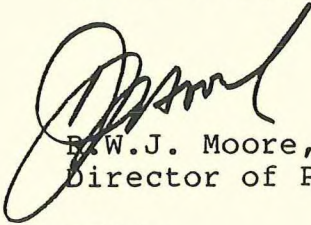
878-8113

OAKVILLE

827-2151

A concurrent application for approval under Regulation 164 of the Conservation Authorities Act in respect to a proposed new landfill located at Lot 3 and Part of Lot 4 Concession II in the Town of Milton (Site D), Regional Municipality of Halton has been submitted to the Halton Region Conservation Authority under separate cover.

Yours truly,

A handwritten signature in dark ink, appearing to read 'B.W.J. Moore', is written over the typed name.

B.W.J. Moore, P.Eng.
Director of Public Works

DGS/yt
Attach.

The Halton Region Conservation Authority
Trafalgar square
310 Main Street
MILTON, Ontario
L9T 1P4

Application is hereby made under Regulation 164, R.R.O. 1980 made under the Conservation Authorities Act, R.S.O. 1980 for a permit to carry out the following proposed work.

Applicant: Regional Municipality of Halton
Public Works Department
P.O. Box 7000
2316 South Service Road West
Oakville, Ontario
L6J 6E1

Location of Work: Lot 3 and Part of Lot 4 Concession II
Town of Milton (Site D)

Proposed Future Land Use: A Solid Waste Disposal Site
(Landfill).

Description of Proposed Work:

Proposed Storm Water Management Works

Prior to the start of the landfilling, certain storm water management works will be undertaken to provide greater control of the storm run-off. One of the works will require the construction of a stream diversion channel along the western boundary of the site to intercept the flows from the north. This diversion channel will drain the area of about 200 hectares to the north of the site. The channel will be constructed to accommodate a 25 year storm. Further downstream improvements will not be required since the flow rates are not expected to increase by the construction of the diversion channel.

The east side of the site will require a minor improvement to the swale downstream to accommodate the flows from the proposed storm water retention pond as shown on Drawing 3 of the Design and Operations Report (Schedule A-D) submitted with and in support of this application. The swale will be regraded to a well defined channel which will lead to the concrete box culvert under Highway 25.

Perimeter Ditches

Control of storm water run-off both from the landfill site and into the landfill site will be accomplished by means of perimeter ditches near the toe of the slopes. As well, roadside ditches will be constructed to control run-off.

All ditches will be constructed to accommodate a 25 year storm and will be grass lined to minimize sediment transport. In addition, the ditches will provide on-site storm water storage beyond that provided by the retention ponds.

Temporary drainage ditches will be constructed on the earth dykes between cells to minimize runoff into the working areas of the landfill.

Ditches will be constructed in phases as required and as shown on the drawings along with the necessary culverts. Details of the perimeter ditches are shown on Drawings 3 and 4 in the Design and Operations Report (Schedule A-D).

Control of Storm Water in Working Areas

The site design calls for the excavation of cells to certain specified depths of cut at various stages of landfilling. This implies that control of surface water will need to be implemented to minimize the quantity of water requiring treatment as leachate. Since the perimeter ditches will act to intercept surface water from entering the excavations, the primary concern is with the rainfall on the excavation itself.

Three of the cells will have a slope on the base contours enabling the collection of ponded storm water. In these cells, the storm water will be controlled by temporary dykes constructed near the toe of the working face to prevent mixing of contaminated and non-contaminated run-off. The non-contaminated water will be pumped to the retention ponds or perimeter ditches and discharged as storm water. The storm run-off entering the filled areas will be collected by the perforated collection system and will be treated as leachate.

In the cells where there is no base slope, the separate collection of the storm water in the excavation will not be possible and the storm water will be collected and treated as leachate. Because of the flat base, the working areas may also become wet with the ponded waters resulting in difficult operations. To help overcome this, a granular pad may be required to provide an initial working base for the operating equipment and the trucks. The need for the pad will be determined by the site supervisor.

Storm Water Retention Ponds

The two storm water retention ponds located as shown on Drawing 3 in the Design and Operations Report (Schedule A-D) will be designed to accommodate a 25 year storm and will be grass lined. The ponds will act to reduce impact of the storm as well as to provide a sediment trap for the water. Trapped sediment will be dredged as necessary.

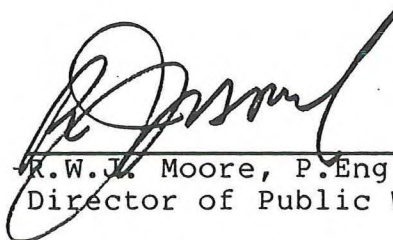
The discharge pipes from the retention ponds will be designed to control outflow from the ponds such that post-development flow will not exceed pre-development flow for a 25 year storm. Erosion protection will be provided up to the 50 year storm flows.

Retention ponds will be monitored on a regular basis for water quality, although contamination of the storm water is not expected. If, however, the water is found to be contaminated, the retained water in the ponds will be disposed of as leachate.

Proposed Construction Period Starting Date: November 1, 1988
(for all initial site preparation work)

Proposed Construction Period Completion Date: January 1, 1990
(for all initial site preparation work)

Dated at Oakville this 28th day of October 1986



R.W.J. Moore, P.Eng.
Director of Public Works

1986 10 28

4. Supporting Information

- (a) A plan showing details of proposed storm water management works.

Reference should be made to Drawing No. 3 Initial Site Preparation in the Design and Operations Report (Schedule A-D) submitted with and in support of this application.

- (b) A description of the protective measures to be undertaken.

Reference should be made to the section entitled Description of Proposed Work on page 3 of this application.

- (c) Dates between which the proposed storm water management works will be carried out.

The proposed storm water management works will be carried out between November 1, 1988 and January 1, 1990.

- (d) Purpose of the proposed work.

The purpose of the proposed storm water management works is to provide greater control of the storm run-off at the proposed landfill site.