



Ontario

COPY

Ministry
of the
Environment

Central
Region

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1983 02 04

Mr. Dennis Y. Perlin
Chief Administrative Officer
Regional Municipality of Halton
P.O. Box 7000
1151 Bronte Road
Oakville, Ontario
L6J 6E1

Dear Sir:

Re: Request for Lab Analysis
Burlington Sanitary Landfill Site
Regional Municipality of Halton
WM 11-02; A210102

This will confirm our conversations at the Halton-MOE Liaison Committee Meetings regarding requests for lab analysis and your letter of December 22, 1982.

We have discussed the research proposal by the Waterloo Hydrogeology Group with both our Water Resources and Laboratory Services Branches. Proposals of this nature are usually given consideration by the Ministry's Research Advisory Committee for support from the Provincial Lottery Funds. The assessment of the research proposal by the Ministry's Research Advisory Committee usually assumes that the cost of any analyses required are covered in the proposal and as such these are provided for in any grant. As such, existing commitments at our laboratory facility are not affected by the Ministry's participation in various research studies. Otherwise our participation in the research studies would be seriously limited by the analytical capability of our facilities to meet the requirements of our routine programs and special projects. It is understood that the program of landfill research that is being conducted by the Waterloo Hydrogeology Group is being currently funded by a grant from the Ontario Lottery Fund. If the current research proposal is in addition to the original contract, a new proposal should be submitted for consideration by the committee.

As you may be aware, our Mr. G.R. Trewin responded to the City of Burlington's request for analysis on samples collected at the Bayview Site in a letter dated September 20, 1982. The situation at that time was explained in detail with copies to the Public Works Department and

Solid Waste Management Committee in the Regional Municipality of Halton. A copy of the letter is attached for your perusal. On October 4, 1982, we received a further request from the City with an indication that it seems somewhat premature to develop terms of reference for a long-term monitoring program at the Bayview Site. In this regard, however, should the municipality decide to implement a long-term monitoring program at the site, we are prepared to review the requirements for long-term sample analyses with their hydrogeologist.

Conversely, the Regional Municipality of Halton has established terms of reference for the establishment and implementation of long-term monitoring programs at sites in Halton Hills, Oakville and Burlington. The routine programs carried out by the Regional Municipality of Halton are well developed. Very extensive and comprehensive monitoring is being provided at the Burlington Landfill Site. Once a year all data is reviewed and analyzed by an experienced hydrogeologist. The analysis include an assessment of:

- a) the site impact on the groundwater regime in the area;
- b) the performance of the leachate collection system;
- c) the movement of leachate through the shale towards Falcon Creek and the need for contingency measures;
- d) the impact of the site on Falcon Creek and,
- e) gas movement aspects.

The program measures conditions between the landfill site and the North Service Road and provides information regarding leachate movement through the shale towards Falcon Creek. Changes in the program can be implemented at the yearly assessment to increase or decrease the frequency or range of analysis required. In this regard, the 1981 program at the Burlington Site recommended that the groundwater sampling frequency be reduced in frequency from twice a year to once a year during the 1982 monitoring program.

At this time, we have asked to consider reducing current commitments to our laboratory by 10 to 15% in order for the Ministry to reduce present sample backlogs and to carry out new initiatives. However, staff are recommending that we continue to do all reasonable

requests for analysis at our laboratory that are received from Halton's hydrogeologist as part of Halton's long-term monitoring programs. The analyses of any additional samples would need to be considered as part of Halton's long-term monitoring program. As such, the additional monitoring data must be given consideration in the annual assessment by Halton's hydrogeologist. However, until the details of any expanded sampling program at the Burlington Site are available for our review, we find it necessary to reserve a decision on committing our laboratory to perform the additional analyses.

In conclusion, Halton's monitoring programs are providing the information for the protection of the environment. The very fact that the information may be helpful in monitoring other landfills around the Province, is reason to believe that there will continue to be strong support from staff to assist Halton by routinely performing chemical analysis on samples collected as part of long-term monitoring programs.

If you have any comments or questions concerning this letter, please contact our Mr. G.L. McCarty at this office.

Yours very truly,

ORIGINAL SIGNED
BY G. MIERZYNSKI

G. Mierzynski, P.Eng.
Regional Director

Attach.

GLMc/yf

cc: Mr. G.N. Woodburn, Senior Waste Disposal Engineer
Alderman W. Mulkewich, Chairman 
Solid Waste Management Committee
Mr. M. H. Boggs, Chief Admin. Officer

1982 09 20

Mr. Michael H. Boggs
Chief Administrative Officer
City of Burlington
P.O. Box 5013
Burlington, Ontario
L7R 3Z6

Dear Mr. Boggs:

Re: Bayview Park
Former Landfill Site
City of Burlington
Our File No. WM 11-02

This will acknowledge the City's request of August 10, 1982, that the Ministry of the Environment Laboratories perform the chemical analysis on samples collected at the above site. While the Ministry should be able to assist the City it is our opinion that long term monitoring should be a prerequisite not only to determine the extent of any pollutant migration as it may exist today but to serve as an early detection system for any environmental problems that may arise in future.

On the basis of discussions with our staff in your office on June 9, 1982, it is our understanding that the proposed study by the Waterloo Hydrogeology Group could compliment the City's program at the closed landfill site and as such is a reasonable use of our laboratory facilities. However, with the cost and increasing demands for sample analysis, we are instructed to continually review the analytical requirements and priorities being committed to our laboratory to reduce anticipated delays in obtaining analysis results in future. At present the analytical capability of our laboratory facility is being fully utilized in carrying out our routine programs and analysis requirements in support of special projects. With these constraints we find it necessary to reserve a decision on committing our laboratory to perform the analyses until the Ministry has had an opportunity to review the City's program. Once the details of the sampling program are available for our review, we will assess the commitment to our facilities and the completeness of the monitoring program in meeting all the requirements of the participating parties, including the Ministry of the Environment.

In our opinion there exists a need for the City to establish terms of reference for the establishment and implementation of a long term monitoring program at the Bayview Park Site. Initially a comprehensive program should be implemented to provide extensive monitoring of ground water, surface water, gas and leachate. In order to provide the analytical capability to carry out the large number of analyses at our laboratory the Regional Municipality of Halton will be asked to review their landfill monitoring programs and to assess the possibility of reducing their analytical requirements at our facility. Provided Halton agrees and their Hydrogeologist confirms that this is reasonable based on the data collected to date, an extensive program could be undertaken at the Bayview Park Site without increasing the current commitments at our laboratory.

The monitoring programs carried out by Halton Region are well developed providing very extensive and comprehensive monitoring at their sites. With the progress that has been made at these sites in data collection, data interpretation and reporting on findings, conclusions and recommended remedial measures, a reduction in the number of analysis performed on samples from these sites may be justified.

The City is therefore requested to submit terms of reference prepared by the City's Hydrogeologist for the establishment of a long term monitoring program at the Bayview Site. As part of the terms of reference the Hydrogeologist should be required to site permanent sampling stations based on the physical setting of the landfill and the geological and hydrological characteristics on and adjacent to the site. The consultant should provide recommendations on the frequency of sampling, parameters to be analyzed, data presentation and interpretation, and method of reporting on the results, findings, conclusions and any recommendations for remedial measures. With the establishment and implementation of a satisfactory monitoring program at the site we can be assured that the Ministry's participation in the test program by the Waterloo Hydrology Group will compliment the City's program to provide monitoring at the site to the satisfaction of the Ministry of the Environment.

By copy of this letter to George N. Woodburn, Senior Waste Disposal Engineer with the Regional Municipality of Halton we are requesting that they assess the current requirements of their landfill monitoring programs and advise on a possible reduction in their laboratory requirements. If you have any comments or questions concerning the establishment

of a suitable program at the site, please contact our Mr.
G. L. McCarty at this office.

Yours truly,



G.R. Trewin, P. Eng.
Manager
Municipal and Private
Abatement Section

GLM/yf

cc: Mr. George N. Woodburn
Alderman W. Mulkewich, Chairman
Solid Waste Management Committee