

THE REGIONAL MUNICIPALITY OF HALTON



Solid Waste Management Committee

Agenda

SEPTEMBER 28, 1987

THE REGIONAL MUNICIPALITY OF HALTON

MEETING NO. 13-87

NAME OF SUB-COMMITTEE: SOLID WASTE MANAGEMENT

DATE OF MEETING: Monday, September 28, 1987
9:30 a.m.

PLACE OF MEETING: Committee Room No. 1
Regional Administration Building
Oakville, Ontario

A G E N D A

ITEM NO.

PAGE NOS.

DISCLOSURES OF CONFLICT OF INTEREST

DELEGATIONS

- | | | |
|----|---|---------|
| 1. | Halton Region Conservation Authority -
Position in Respect to Halton's Storm
Water Management Design for the Proposed
New Landfill Sites - Site F and Site D
- CAO 158/87 | 1 - 6 |
| 2. | Private Application for Approval of A
Sanitary Landfill Site Accepting
Municipal Waste - Acton Quarry
- CAO 157/87 | 7 - 12 |
| 3. | Proposed Revision to 1987 Separation at
Source Operating Budget - FIN 138/87 | 13 - 21 |
| 4. | Landfill Technical Study - Comparative
Analysis - Budget - CAO 159/87 | 22 |
| 5. | Review of Options - Transfer Component
Solid Waste Disposal, 1988 - 1990
- CAO 163/87 | 23 - 58 |
| 6. | Report to Council on the Status of the
Consolidated Hearing on Halton's
Landfill Site Selection - Budget Review
- CAO 156/87 | 59 - 71 |
| 7. | <u>Other Business</u> | |

Adjournment

* * * * *

THE REGIONAL MUNICIPALITY OF HALTON

Report to The Chairman and Members of the Solid Waste
Management Committee

From John E. Fleming
Chief Administrative Officer

Date 1987 09 17

Report No CAO 158/87

Re: Halton Region Conservation Authority - Position in
Respect to Halton's Storm Water Management Design
for the Proposed New Landfill Sites - Site F and
Site D

RECOMMENDATION:

1. THAT Report CAO 158/87 re: Halton
Region Conservation Authority -
Position in Respect to Halton's Storm
Water Management Design for the
Proposed New Landfill Sites - Site F
and Site D be received for
information.
2. THAT Halton accept the Design
Criteria set out by Halton Region
Conservation Authority as applicable
upon completing the final design of
the selected landfill site.

REPORT

Attached to this report as Appendix "A" and Appendix "B" are letters from the Halton Region Conservation Authority in respect to Site F and Site D. These letters indicate that the Executive Committee of the HRCA approved in principle the preliminary drainage and storm water management plan submitted by Halton in respect to Site F and Site D, subject to the final design of the selected site incorporating certain design criteria. The design criteria are set out in those letters. }

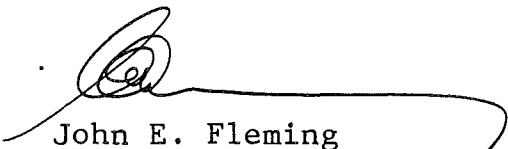
The Fill and Flood Plain Advisory Board for the HRCA received a presentation from Halton's storm water management consultant, Mr. R. Crysler and the Landfill Approvals Coordinator at the Board's meeting of August 27, 1987. As a result, the resolution set out in the letters attached as Appendices "A" and "B" were approved and forwarded to the Executive Committee of the HRCA.

The HRCA staff report to the Fill and Flood Plain Advisory Board indicates that the preliminary drainage and storm water management plans submitted by Halton meets and in some cases exceeds the design criteria set out by the HRCA. The only design criteria which has not been satisfied by Halton is the use of the appropriate computer modelling method of hydrological and hydraulic calculation in the final detailed design. Pursuant to CAO 124/87 Halton will make use of the appropriate computer modelling method of hydrological and hydraulic calculation in the final detailed design of the selected landfill site.

The HRCA has indicated its intention to appear before the Joint Board at the Consolidated Hearing to make a submission with respect to the aforementioned design criteria.

Halton's storm water management consultant, Mr. R. Crysler has indicated that the design criteria are acceptable and in fact have been met and in some cases exceeded, in the preliminary design concept. It is therefore recommended that these design criteria set out by the Halton Region Conservation Authority be accepted by Halton in the final design of the selected landfill site.

Respectfully submitted,



John E. Fleming
Chief Administrative Officer
JEF:SDR:rad



HALTON REGION CONSERVATION AUTHORITY

P.O. Box 1097, Station B, 2596 Britannia Road, West
Burlington, Ontario L7P 3S9 (416) 336-1158

September 10, 1987.

RECEIVED

AM. _____ P.M. ☒

SEP 11 1987

**CHIEF ADMINISTRATOR
REGIONAL MUNICIPALITY
OF HALTON**

Mr. John Fleming
Regional Municipality of Halton
P.O. Box 7000
Oakville, Ontario
L6J 6E1

Dear Sir:

Re: Application submitted under Regulation 164, R.R.O., 1980 by the Regional Municipality of Halton to carry out drainage works in the north half of Lots 2 and 3, Concession I and south half of Lot 3, Concession II, City of Burlington as necessary to construct a sanitary landfill site (Site F), File No.: A/86/B/19

The Executive Committee of the Halton Region Conservation Authority passed the following resolution at their meeting of September 9, 1987.

THAT the Executive Committee approve, in principle, the preliminary drainage and storm water management plan submitted by the Region of Halton under Regulation 164, R.R.O., 1980 for sanitary landfill Site F, in the northwest half of Lots 2 and 3, Concession I and south half of Lot 3, Concession II, City of Burlington, subject to the final design incorporating the following:

1. Drainage plans maintain the naturally existing catchment areas for the Indian and Falcon Creeks.
2. The perimeter ditches be designed to convey, as a minimum, the 50 year design storm with erosion control protection up to the 5 year storm conditions.
3. The storm water management system shall be designed such that there are no increases in post development flow rates over pre-development flow rates for a range of storms up to and including the 1:100 year storm.
4. The storm water management system be designed to prevent any potential increase in erosion along the Indian Creek should any changes in flow result in the final design.
5. The use of the appropriate computer modelling method of hydrological and hydraulic calculations in the final detailed design as specified in:

(i) Flood Plain Management in Ontario, Technical Guidelines, Ministry of Natural Resources;

- 3 -

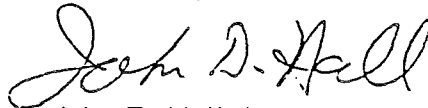
(ii) Storm Water Management Guidelines, Central Region, Ministry of Natural Resources.

The Executive Committee passed this resolution on the advice of the Resource Planning - Fill and Flood Plain Advisory Board which received a presentation from Mr. R. Chrysler and Ms. Susan Rodgers at their meeting of August 27, 1987. It is the Authority staffs understanding from discussions with Mr. Ralph Chrysler prior to the August 27th Advisory Board meeting that the criteria set out in the Executive Committees resolution are satisfactory to Mr. Chrysler as criteria for preparing the final design for surface drainage works should Site F be selected. It is the intention of the Halton Region Conservation Authority to provide the aforementioned design criteria to the Consolidated Hearing Board. At this time we request that you confirm that these design criteria are acceptable to the Region further to the Regions July 8, 1987 resolution.

There is some urgency in receiving this confirmation from the Region in that the Authority anticipates Mr. Chrysler will be presenting his surface drainage evidence relating to Regulation 164, R.R.O., 1980 on or about the 28th of September 1987.

Trusting this resolves this matter; I thank you for your prompt attention in providing the confirmation requested.

Yours truly,



John D. Hall, Manager
Resource Planning.

JDH:mr1

cc: Mr. John Olah, Beard, Winter, Sun Life Centre East, 150 King Street West, 9th Floor, Toronto
M5H 2K4



**HALTON REGION
CONSERVATION AUTHORITY**

P.O. Box 1097, Station B, 2596 Britannia Road, West
Burlington, Ontario L7P 3S9 (416) 336-1158

September 10, 1987.

Mr. John Fleming
Regional Municipality of Halton
P.O. Box 7000
Oakville, Ontario
L6J 6E1

RECEIVED

A.M. _____ P.M. ☒

SEP 11 1987

**CHIEF ADMINISTRATOR
REGIONAL MUNICIPALITY
OF HALTON**

Dear Sir:

Re: Application submitted under Regulation 164, R.R.O., 1980 by
the Regional Municipality of Halton to carry out drainage works
in Lot 3 and Part Lot 4, Concession II, Town of Milton, as
necessary, to construct a sanitary landfill site (Site D).
File No.: A/86/M/23

The Executive Committee of the Halton Region Conservation Authority passed the following resolution at their meeting of September 9, 1987.

THAT the Executive Committee approve, in principle, the preliminary drainage and storm water management plan submitted by the Region of Halton for approval under Regulation 164, R.R.O., 1980 for sanitary landfill Site D, in Lot 3 and Part Lot 4, Concession II, Town of Milton subject to the final design incorporating the following:

1. The Bronte tributary diversion be sized to convey the Regional Storm flow and designed such that existing stage storage/stage discharge is maintained for a variety of storm flows up to and including the Regional Storm event.
2. The Bronte tributary diversion contain a low flow channel lining to prevent erosion.
3. The perimeter ditches be designed to convey, as a minimum, the 50 year design storm with erosion control protection up to the 5 year storm conditions.
4. The storm water management system be designed such that there are no increases in post development flow rates over pre-development flow rates for a range of storms up to and including the 1:100 year storm.
5. The storm water management system be designed to prevent any potential increase in erosion along the Bronte and Sixteen Mile Creek tributaries should any change in the flows result in the final design.
6. The use of the appropriate computer modelling method of hydrological and hydraulic calculations in the final detailed design as specified in:

(i) Flood Plain Management in Ontario, Technical Guidelines, Ministry of Natural Resources;

-5-

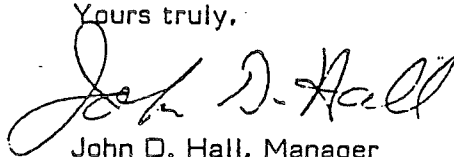
(ii) Storm Water Management Guidelines, Central Region, Ministry of Natural Resources

The Executive Committee passed this resolution on the advice of the Resource Planning - Fill and Flood Plain Advisory Board which received a presentation from Mr. R. Chrysler and Ms. Susan Rodgers at their meeting of August 27, 1987. It is the Authority's understanding from discussions with Mr. Ralph Chrysler prior to the August 27th Advisory Board meeting that the criteria set out in the Executive Committee's resolution are satisfactory to Mr. Chrysler as criteria for preparing the final design for surface drainage works should Site D be selected. It is the intention of the Halton Region Conservation Authority to provide the aforementioned design criteria to the Consolidated Hearing Board. At this time we request that you confirm that these design criteria are acceptable to the Region further to the Region's July 8, 1987 resolution.

There is some urgency in receiving this confirmation from the Region in that the Authority anticipates Mr. Chrysler will be presenting his surface drainage evidence relating to Regulation 164, R.R.O., 1980 on or about the 28th of September 1987.

Trusting this resolves this matter; I thank you for your prompt attention in providing the confirmation requested.

Yours truly,

A handwritten signature in dark ink, appearing to read "John D. Hall". The signature is fluid and cursive, with the first name "John" being more prominent and the last name "Hall" following in a similar style.

John D. Hall, Manager
Resource Planning.

JDH:mri

cc: Mr. John Olah, Beard, Winter, Sun Life Centre East, 150 King Street West, 9th Floor, Toronto
M5H 2K4

THE REGIONAL MUNICIPALITY OF HALTON

Report to The Chairman and Members of the Solid Waste
Management Committee

From John E. Fleming
Chief Administrative Officer

Date 1987 09 17

Report No CAO 157/87

Re: Private Application for Approval of A Sanitary
Landfill Site Accepting Municipal Waste - Acton
Quarry

RECOMMENDATION:

THAT Report CAO 157/87 re:
the Private Application for Approval
of a Sanitary Landfill Site
Accepting Municipal Waste - Acton
Quarry, be received for information.

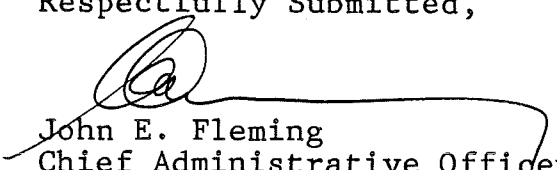
REPORT

Council will recall a request was made by the Solid Waste Management Committee that the MOE be contacted for clarification as to why a private application to receive municipal waste would be treated differently under the Environmental Assessment Act from such an application by a municipality.

Attached as Appendix "A" is a copy of the correspondence forwarded to the MOE, pursuant to the Committee's request. We have since received a response from the MOE. That response is attached as Appendix "B" and indicates that although Comcor's application would not presently be subject to the Environmental Assessment Act, Comcor was advised that the process dictated by that Act should be followed in making Comcor's application.

Council is advised that, since the initial correspondence between the Region and Comcor Ltd., Halton has not yet received a formal application nor has Halton been asked to formally comment on any application.

Respectfully Submitted,



John E. Fleming
Chief Administrative Officer
JEF:SDR:rad



APPENDIX "A"

THE REGIONAL MUNICIPALITY OF HALTON

P.O. BOX 7000
1151 BRONTE ROAD
OAKVILLE, ONTARIO L6J 6E1
416/827-2151

OFFICE OF THE CHIEF
ADMINISTRATIVE
OFFICER

1987 05 19

Ministry of the Environment
Environmental Assessment Branch
40 St. Clair Avenue West
4th Floor
Toronto, Ontario
M4V 1P5

Attention: Brian Ward

Dear Sir:

Re: Private Application for Approval of A Sanitary Landfill
Site Accepting Municipal Waste - Acton Quarry

The Regional Municipality of Halton has recently received a copy of a draft technical report prepared by Comcor Waste Management Consultants, relating to a proposal to rehabilitate a quarry site in Acton for landfilling purposes. It is Halton's understanding that this "Preliminary Environmental Impact Assessment - Proposed Acton Quarry Landfill Rehabilitation" forms the basis of a future application to the Ministry of the Environment for approval of the quarry site for landfilling under the Environmental Protection Act.

The Solid Waste Management Committee of Regional Council has directed that Regional staff make some enquiries with the Ministry of the Environment as to what approvals will be necessary if this proposal is to proceed.

Halton's review of the Draft Preliminary Environmental Impact Assessment indicates that this private proponent is proposing to accept municipal waste of the same kind as the waste proposed to be disposed of at Halton's proposed new Regional landfill site. As you are aware, Halton was made subject to the requirements of the Environmental Assessment Act and was required to seek approval thereunder before such a municipal landfill site could be established.

Halton understands that the proposal is being made by a private proponent, and is therefore not automatically subject to the requirements of the Environmental Assessment Act.

However, given that the same kind of municipal waste is proposed to be disposed of at the Acton Quarry Site under the Comcor proposal as is proposed to be disposed of at Halton's new Regional landfill site, and acknowledging that the kinds of environmental impacts to be studied would be very similar, Halton staff have been directed to enquire of the Ministry of the Environment if such a proposal requires approval under the Environmental Protection Act only, and not under the Environmental Assessment Act. If approval under the Environmental Protection Act only is required, Committee also seeks an explanation of the environmental rationale behind such a limited requirement.

I would appreciate a response from you at your earliest opportunity. Thank you in advance for your attention to this matter.

Yours very truly,

John E. Fleming
Chief Administrative Officer
JEF:sdr:rad



Ontario

Ministry of the Environment
Ministère de l'Environnement

APPENDIX "B"

135 St. Clair Avenue West
Suite 100
Toronto, Ontario
M4V 1P5

135, avenue St. Clair ouest
Bureau 100
Toronto (Ontario)
M4V 1P5

323-4630
RECEIVED

A.M. _____ P.M. _____

July 28, 1987

AUG 1 1987

CHIEF ADMINISTRATOR
REGIONAL MUNICIPALITY
OF HALTON

Mr. John Fleming
Chief Administrative Officer
The Regional Municipality of Halton
P.O. Box 7000
1151 Bronte Road
Oakville, Ontario
L6J 6E1

Dear Mr. Fleming:

Re: Application for Approval of a Sanitary
Landfill Site, Comcor Waste Disposal Limited,
Acton Quarry
EA File No. PR-CC-02

COMCOR LTD. PROPOSAL

Thank you for your letter of May 19, 1987. My staff have had preliminary discussions with Dr. Doug Hallett who represents Comcor (now Reclamation Systems Inc.) in their proposed development of a sanitary landfill site at a quarry in Acton, Town of Halton Hills. The Ministry has outlined issues and requirements of both the Environmental Approvals and Environmental Assessment Branches for the proposal during this preliminary meeting with Dr. Hallett.

ENVIRONMENTAL ASSESSMENT ACT

Dr. Hallett was also advised at this time that at the present time, private waste management proponents are not subject to the requirements of the Environmental Assessment Act; however, Dr. Hallett was informed that there is a potential for the undertaking as proposed by Comcor Ltd. to be made subject under the Environmental Assessment Act by designation by the Government. Therefore, he was advised to proceed in a planning process with this in mind and taking into account the requirements of the Environmental Assessment Act.

Such a study would include proper planning, extensive consultation with the public, the Government Review Team and the municipalities that are affected by the proposal, and the consideration of alternatives as well as the other components required by the Environmental Assessment Act.

International Year of
Shelter for the Homeless



Année internationale du
logement des sans-abri

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BLUEPRINT ON WASTE MANAGEMENT

The "Blueprint for Waste Management in Ontario" (1983) stated that both private and public waste management undertakings should be required to have the same and consistent approvals. The Government has proceeded with the implementation of part of the Blueprint with the designation of all energy from waste facilities under the Environmental Assessment Act in March, 1987. The Ministry is further investigating the consistency of the application of the Environmental Protection Act and the Environmental Assessment Act to private and public sector waste management activities.

In conclusion, staff have advised that Comcor Ltd. and their agents should ensure that all requirements and guidelines of the Environmental Assessment Act and the Environmental Protection Act are followed in this proposal.

Yours truly,

A handwritten signature in dark ink, appearing to read "B. Ward" or "Brian Ward", with a stylized, cursive script.

Brian Ward
Director
Environmental Assessment Branch

RBC/jm

THE REGIONAL MUNICIPALITY OF HALTON

Report to Chairman and Members of the Solid Waste
Management Committee

From J.L. Rinaldo, Commissioner of Finance and
Regional Treasurer

Date 87 09 23

Report No FIN 138/87

Re: Proposed Revision to 1987 Separation at Source
Operating Budget

RECOMMENDATION

1. THAT Halton's Recycled Resources request for additional funding in the amount of \$246,100 gross (\$196,900 net) be approved.
2. THAT the required budget adjustments to implement Recommendation 1 be as set out in Schedule C to Report FIN 138/87.

REPORT

Background

Report FIN 185/86 contained the 1987 Solid Waste Management Operating and Capital Budgets. That document contained the Separation-at-Source approved budget of \$403,494 based on a projected operating deficit of \$218,680, a Waste Diversion credit of \$136,814 and a Service Fee of \$48,000. This budget was based on diverting 16,000 tonnes of recyclable material from landfill.

In May of 1987 staff prepared Report FIN 90/87 based on a review of the first four months of activity during 1987. The review revealed that the revenues anticipated during the budget process in 1986 would not materialize this year. The decrease in revenues was due directly to a decrease in corrugated/cardboard volumes. As a result of decreased revenues, HRR was, at that time, forecasting a greater than originally budgetted operating deficit. However, since volumes would also be lower than originally estimated,

Halton's waste division credit and service fee would be reduced. The net result of these changes was a redeployment of budget funds (in FIN 90/87), resulting in a modest overall reduction in Halton's contribution (from \$403,494 to \$383,994).

Current Situation

Attached is a letter that has been received from HRR requesting that funding in the amount of \$246,100 for additional anticipated operating deficits in 1987 be approved. Staff from Finance and Public Works have reviewed the request. They have compared the experience anticipated in 1987 to the actual situation for 1986 when a similar quantity of recyclable materials was diverted.

During 1986 a total of \$462,879 was paid by Halton to HRR to divert approximately 9,000 tonnes of recyclable material. Similarly, in May 1987 after the budget revisions set out in FIN 90/87, the 1987 forecast of tonnes diverted was 9,500 tonnes and the required budget was set at \$383,994. You will note on Schedule "A" attached that up to July 31, 1987, the revised 1987 budget met funding requirements within \$1,900. However, as explained in the attached letter from HRR (Schedule "B") certain structural and remuneration changes will result in increased expenditures beyond those currently budgeted for in 1987 and to offset these, a budget increase of \$246,100 is requested. Approximately 20% of this additional request will be eligible for M.O.E. subsidy.

The following table summarizes the implications of HRR request.

(\$000)	1987 Council Approved Budget	1987 Revised Budget (May 87- FIN90/87)	1987 Requested Budget (Sept87 per HRR letter)	Difference (Requested Budget/ Revised Budget)
<u>HRR Budget</u>				
Operating Deficit	\$ 218.7	\$ 282.7	\$ 528.8	\$ 246.1
Waste Diversion Credit	136.8	72.8	72.8	0
Service Fee	<u>48.0</u>	<u>28.5</u>	<u>28.5</u>	<u>0</u>
	403.5	384.0	630.1	246.1
less M.O.E. Subsidy	<u>(210.0)</u>	<u>(210.0)</u>	<u>(259.2)</u>	<u>(49.2)</u>
Halton Contribution	\$ <u>193.5</u>	\$ <u>174.0</u>	\$ <u>370.9</u>	\$ <u>196.9</u>

The implications are significant, in that it more than doubles Halton's 1987 contribution to HRR (from \$174,000 to \$370,900.

HRR Revised Budget Request

The HRR budget currently in place provides a similar level of Region funding to that which was paid out during 1986, for similar volumes of material diverted. The HRR letter details the reason why a higher level of funding is now being requested. It relates principally to salary enhancements and new positions approved by HRR, cost of living adjustments, and depreciation and maintenance expenses.

Halton is under no contractual obligation to fund the \$246,100 request. However should Council agree to these enhancements, they would appropriately be funded from anticipated surpluses elsewhere within the 1987 Solid Waste Management Operating Budget. It would, however, reduce amounts available to moderate tipping fee increases in 1988 when the full impact of the export option will be felt.

Halton has recently undertaken a management review of its Separation at Source program which was reported to Council in FIn 139/87 and CAO 155/87. The review recommended that the existing contract under which the program is operated be changed in light of the recent developments relating to the facility. It should also be pointed that during the review staff were made aware that HRR would be requesting additional funding however the request was not formalized per the existing contractual obligation until receipt of Schedule "B".

Respectfully submitted,

J. L. Rinaldo

J. L. Rinaldo
Commissioner of Finance
and Regional Treasurer

Attch.

TB/DB/ab

APPROVED BY C.A.O.

[Signature]

SUMMARY OF BUDGET VARIANCES
FOR ACTIVITY OF HALTON'S RECYCLED
RESOURCES - JAN. TO DEC. 1987

SCHEDULE 'A'
to FIN 138/87

1. <u>Monthly Operations</u>	ACTUALS								ESTIMATES				
	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	TOTAL
Budgeted Revenues	86,096	81,845	98,051	92,559	97,456	94,224	89,944	87,024	129,145	131,676	124,974	124,392	1,237,386
Actual Revenues	<u>44,319</u>	<u>51,951</u>	<u>62,497</u>	<u>59,876</u>	<u>64,583</u>	<u>69,667</u>	<u>60,242</u>	<u>67,890</u>	<u>58,398</u>	<u>57,206</u>	<u>50,759</u>	<u>50,031</u>	<u>697,419</u>
Shortfall	<u>(41,777)</u>	<u>(29,894)</u>	<u>(35,554)</u>	<u>(32,683)</u>	<u>(32,873)</u>	<u>(24,557)</u>	<u>(29,702)</u>	<u>(19,134)</u>	<u>(70,747)</u>	<u>(74,470)</u>	<u>(74,215)</u>	<u>(74,361)</u>	<u>(539,967)</u>
Budgeted Expenses	141,864	113,260	111,956	125,144	120,281	123,070	120,871	122,809	117,787	126,506	113,763	118,755	1,456,066
Actual Expenses	<u>107,895</u>	<u>80,665</u>	<u>87,515</u>	<u>90,339</u>	<u>95,070</u>	<u>97,887</u>	<u>118,136</u>	<u>120,035</u>	<u>123,846</u>	<u>107,084</u>	<u>99,383</u>	<u>109,364</u>	<u>1,237,219</u>
Savings (Shortfall)	<u>33,969</u>	<u>32,595</u>	<u>24,441</u>	<u>34,805</u>	<u>25,211</u>	<u>25,183</u>	<u>2,735</u>	<u>2,774</u>	<u>(6,059)</u>	<u>19,422</u>	<u>14,380</u>	<u>9,391</u>	<u>218,847</u>
Increase (Decrease) in Budgetted Deficit	<u>7,808</u>	<u>(2,701)</u>	<u>11,113</u>	<u>(2,122)</u>	<u>7,662</u>	<u>(626)</u>	<u>26,967</u>	<u>16,360</u>	<u>76,806</u>	<u>55,048</u>	<u>59,835</u>	<u>64,970</u>	<u>321,120</u>
2. <u>Status of Budget Variance</u>													
Opening Position (Surplus) Deficit	7,808	7,808	5,107	16,220	14,098	(3,240)	(3,870)	(1,903)	14,457	91,263	121,310	181,145	
This Month	-	(2,701)	11,113	(2,122)	7,662	(630)	26,967	16,360	76,806	55,048	59,835	64,960	321,120
FIN 90/87	-	-	-	-	(25,000)	-	(25,000)	-	-	(25,000)	-	-	(75,000)
Total	7,808	5,107	16,220	14,098	(3,240)	(3,870)	(1,903)	14,457	91,263	121,311	181,145	246,105	246,105

- 91 -

P.O. Box 1174, Station B, Burlington, Ont. L7P 3S9
Tel. (416) 335-2193

September 3, 1987

Mr. R.W.J. Moore, P. Eng.
Commissioner of Public Works
Region of Halton
P.O. Box 7000
Oakville, Ontario

Dear Sirs:

Reference: Request for Additional Funding

By this letter, Halton's Recycled Resources Ltd. would like to request additional funding be made available for the 1987 operations.

A review of our position as of August 31, 1987 has revealed a further requirement of \$246,100 to offset operational deficits.

Outlined below please find explanations for the additional funding requirement.

Salaries and Wages

1987 cost of living adjustment	(5%)	\$21,300
Market adjustment	(18%)	77,400

New Positions

Baler Operator	18,500	
Route Supervisor	14,400	
Office Manager	17,300	50,200

Increase over 1986	\$148,900
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September 3, 1987
SWM Committee
Page 2

General increases of 5% for cost of living adjustments awarded for 1987 were \$21,300.

In addition to this, a market adjustment totalling 18% was also given. This one time adjustment was to recognize cost of labour markets.

The 18% increase was due mainly to our encountering a difficulty in maintaining a labour pool at budgetted rates. We were forced to increase general labour rate by (\$2.25 per hour) 47% increase for 10 positions which resulted in an overall increase of \$46,800.

The balance of the increase, \$30,600, was calculated by providing each individual with 2% of their wages and salaries times the number of years employed.

Benefits

Workers' Compensation Board	\$ 9,000
Vacation pay expanded by	10,000
Health Care increase annualization	7,500
Sick Time Benefits	20,000

Increase over 1986 \$46,500

Workers' Compensation Board:

The increase of \$9,000 in WCB fees is due to increase in salaries and wages (\$6,700) and a 14% increase in WCB rates or \$2,300.

Health Care Benefits:

The 1986 actuals included \$7,500 for health care benefits from July 1, 1986 to December 31, 1986. The increase in 1987 is due directly to the annualization of the program.

Vacation Pay:

The overall increase in salaries and wages has resulted in a \$6,000 increase over last year. The \$4,000 balance is mainly due to an expanded vacation plan, i.e. as employees are here longer, they receive additional benefits.

The total increase in vacation pay from 1986 to 1987 is \$10,000.

con't...3

September 3, 1987

SWM Committee

Page 3

Sick Time:

In 1986 the existing staff were able to cover off the services of the Company for sick time incurred.

In 1987 with the changes to operations i.e. acquisition of the new baler, staff were unable to cover off the services of the Company for the sick time incurred. As a result, temporary help was required to meet daily needs.

The estimated budget for sick time is \$20,000 of which \$11,050 has been spent to-date.

Depreciation Expense

Baler	\$98,000
Bob Cat	6,700

Increase over 1986	\$104,700
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Equipment Repairs and Maintenance

Increase over 1986	\$ 23,000
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There have been unanticipated increases in gas, labour costs and parts for the vehicles and equipment. The routes have been expanded since the preparation of the 1987 budget resulting in additional gas and maintenance costs.

Revenues

We originally anticipated that these costs would have been offset by the revenues anticipated for 1987 from the projected quantities specifically corrugated/cardboard. Since these quantities will not be realized during 1987, our revenues will not cover our operating deficits. The decrease in the budgetted 1987 revenues is \$433,490.

Net sales have increased over 1986 by \$77,000.

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HALTON'S RECYCLED RESOURCES LTD.

September 3, 1987
SWM Committee
Page 4

Summary

Salaries and wages	\$148,900
Benefits	46,500
Depreciation	104,700
Equipment Repairs & Maintenance	23,000
Total Expenses	\$323,100
Revenues	77,000
TOTAL REQUEST	\$246,100

Please note that every attempt is being made to reduce costs in all categories.

Savings have occurred as a result of the decrease in volume however, the savings have not offset the shortfall in revenue.

Thank you for your consideration of our request.

Yours sincerely,

Halton's Recycled Resources Ltd.

Per:



George W. Discepolo
President/Coowner

Per:



Gwen Discepolo
Secretary/Coowner

c.c. to:



Schedule "C" to
Report FIN 138/87

REQUIRED BUDGET TRANSFERS
TO ENHANCE THE 1987
SEPARATION-AT-SOURCE PROGRAM

Requested Budget Enhancement from HRR Letter \$ 246,100

Required Budget Adjustments

Acct 722 6020 3071 - Separation at Source
Contract - Oper. Deficit + 246,100

Acct 722 6020 9120 - Separation at Source
MOE Revenue + 49,200

Acct 722 2200 3053 - Export Plan - Contract
Tipping Fees - 196,900

THE REGIONAL MUNICIPALITY OF HALTON

Report to The Chairman and Members of the Solid Waste
Management Committee

From John E. Fleming
Chief Administrative Officer

Date 1987 09 23

Report No CAO 159/87

Re: Landfill Technical Study - Comparative Analysis -
Budget

RECOMMENDATION:

1. THAT Report CAO 159/87 re: Landfill Technical Study - Comparative Analysis - Budget be received for information.
2. AND THAT the \$12,458.18 remaining in the Landfill Technical Study Comparative Analysis Budget be transferred to Landfill Reserve.

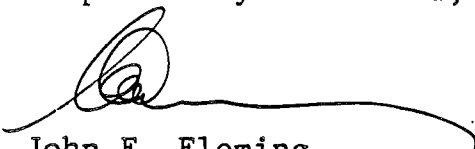
REPORT

Pursuant to CAO 279/86, the budget for the completion of the Comparative Analysis of Site D and Site F by Walker, Wright, Young & Associates was set at \$47,500.00.

The study was completed, adopted by Council and now forms part of the documentation submitted to the Joint Board in support of Halton's case for the selection of a new landfill site. Walker, Wright, Young & Associates have advised that there are no outstanding invoices in respect to this project and the project is complete. The total cost of this study was \$35,041.82, less than the budgeted amount by \$12,458.18.

It is recommended that this account be closed and the remaining monies be transferred to Landfill Reserve.

Respectfully submitted,


John E. Fleming
Chief Administrative Officer
JEF:SDR:rad

REGIONAL MUNICIPALITY OF HALTON

Report to The Chairman and Members of the
Solid Waste Management Committee

From John E. Fleming, Chief Administrative Officer

Date 1987 09 23

Report No. CAO 163/87

Re: Review of Options - Transfer Component
Solid Waste Disposal, 1988 - 1990

RECOMMENDATION

1. THAT the existing transfer/loading facility at Halton's Landfill Site in Burlington NOT be expanded to increase its capacity.
2. THAT Halton Region make application to the Ministry of the Environment to amend Provisional Certificate of Approval No. A210102 for Halton's waste disposal site in Burlington to allow for the continued operation of:
 - (a) the existing public container station until 1988 12 31.
 - (b) the existing transfer/loading facility for the acceptance of both municipally collected waste and privately collected industrial and commercial waste until the facility(s) set out in Recommendation 5 of Report CAO 163/87 has been fully implemented.
 - (c) the existing transfer/loading facility until 1990 12 31 for the acceptance of privately collected domestic, industrial and commercial waste only.

*all passed -
1 to 16*

3. THAT, with the exception of waste from the public container station, the hours that the Burlington landfill transfer/loading facility is open for the acceptance of waste be changed from the current:

8:00 a.m. to 5:30 p.m., Monday through Saturday, including Statutory Holidays, with the exception of Christmas Day and New Year's Day,

to:

7:00 a.m. to 5:00 p.m., Monday to Friday, including Statutory Holidays, with the exception of Christmas Day and New Year's Day,

effective 1988 02 01.

4. THAT the City of Burlington and the Town of Oakville be requested to designate by 1987 10 31 a site or sites which can be used to transfer their municipally collected waste and waste from a local public container station, and that the Councils of those Area Municipalities fully support that site(s) for approval by Halton Region and the Ministry of the Environment.
5. THAT, further to recommendation 4 to Report CAO 163/87, Halton construct and operate a temporary transfer station(s) in the City of Burlington and Town of Oakville for the acceptance of municipally collected waste and waste from local public container stations, and maintain this system in operation until Halton's new landfill site is open.
6. THAT the Town of Milton be requested to transfer their municipally collected waste through Leferink's private transfer station in Halton Hills (Georgetown) by 1988 02 01, and continue to do so until Halton's new landfill site is open.

7. THAT the Town of Halton Hills be requested to continue to use Leferink's private transfer station in Halton Hills (Georgetown) to transfer their municipally collected waste until Halton's new landfill site is open.
8. THAT the Town of Halton Hills be requested to support applications to the Ministry of the Environment by both the Town of Milton and Leferink Transfer Limited, which would allow Leferink to accept municipal waste from the Town of Milton.
9. THAT the Ministry of the Environment be advised of the recommendations to deal with Halton's solid waste on an interim basis as set out in Report CAO 163/87.
10. THAT the Regional Chairman request the Minister of the Environment to provide the emergency approvals required by Halton Region and its Area Municipalities to implement the recommendations set out in Report CAO 163/87.
11. THAT notwithstanding the Purchasing By-law, staff be authorized to procure consulting services, purchase land, and construct temporary transfer station(s) as is necessary, to implement the interim waste disposal system as set out in Recommendation 5 to Report CAO 163/87.
12. THAT approval be given to hire a Supervisor of Solid Waste Operations, up to three temporary transfer station inspectors, and additional part time relief staff as required to implement the interim waste disposal system as set out in report CAO 163/87.

13. THAT staff be authorized to negotiate with ABC Ltd., operator of the existing transfer/loading station at Halton's landfill site in Burlington, changes to their existing contract in order to implement recommendation 2 to Report CAO 163/87.
14. THAT staff be authorized to negotiate an agreement with Leferink Transfer Company Limited to accept residential waste on behalf of Halton from the Town of Milton and the Town of Halton Hills commencing 1988 02 01, and deliver the waste to a disposal facility designated by Halton.
15. THAT the Commissioner of Finance and Regional Treasurer be instructed to prepare detailed cost estimates and funding implications associated with the implementation of the recommendations as set out in Report CAO 163/87, and submit those to Council not later than the point at which the Solid Waste 1988 Budget is to be considered.
16. THAT application be made to the Ministry of the Environment for funding under the Province's Financial Assistance Program for waste disposal facilities.

EXECUTIVE SUMMARY:

The Region's Solid Waste Disposal staff now project that the Burlington Landfill Site will reach its final approved contours by the end of January, 1988. This effectively places Halton in a position where it must, by that same date, rely exclusively on export to out-of-Region waste disposal sites.

This projection, earlier than that one made even a few months ago, arises as a result of the Ministry of the Environment's requirement for a hearing under The Environmental Protection Act for the Walker Brothers Quarries Limited component of our

export plan, and operational difficulties at the Occidental Chemical Corporation's energy-from-waste plant in Niagara Falls, New York.

Despite on-going efforts over many years, Halton now finds itself in a crisis position with regard to waste disposal. While we expect to have approval of the Walker Brothers component of the plan before the end of 1987, implementation of the 100% export plan requires a substantial increase in Halton's loading and transfer station capacity.

CAO 163/87 reports on the considerable work staff has carried out over the past several months in reviewing options to solve that problem, and presents a recommended course of action.

The least expensive and most quickly implemented option is an expansion of the existing transfer/loading facility at the Burlington Landfill Site. However, as a result of commitments made respecting the lifetime of that site, expansion of the Burlington transfer facility is not the recommended option. What is recommended is a joint Region/Area Municipality response to a very difficult problem. CAO 163/87 proposes the continued use of the Burlington Landfill Site on a scaled-down basis; a request that the City of Burlington and the Town of Oakville separately or together designate a site or sites for the construction of a temporary transfer station to receive residential waste from those Municipalities; a request to the Town of Milton and the Town of Halton Hills that the Leferink transfer facility in Georgetown be utilized by both those municipalities for the residential waste from those two municipalities; that the Regional Municipality of Halton absorb the costs in its solid waste budget for the construction and operation of all transfer stations which are part of the plan set out in CAO 163/87; and that the Councils of the Area Municipalities be asked to add their support to the Region in seeking the necessary emergency approvals from the Ministry of the Environment for this plan.

The financial implications, considering together the costs of 100% export and the increased transfer station capacities, are significant. The 1987 tipping fees of \$36.50 will go to much higher levels in 1988, possibly as high as \$66.

REPORT

As the Planning and Public Works Committee was recently advised, staff are currently reviewing options regarding the administration of Halton's solid waste management program in light of the fact that Halton's landfill site in Burlington will reach final approved contours earlier than planned. Committee will recall that Interim Waste Plan No. 5, which was the basis for preparation of the 1987 budget, proposed

that landfilling be limited to an average of 30,000 tonnes per year over the next three years. This limitation should have provided landfilling capacity at the site until the end of 1989. In order to limit the amount being landfilled, waste exports were to be increased to Halton's existing export component Occidental Chemical Corporation's energy from waste plant in Niagara Falls, New York. Further, inert wastes, generally non-burnable, were to be sorted and shipped to Steetley Industries Limited' industrial landfill site in Dundas, Ontario for disposal. The third component of the proposed export plan was to utilize Walker Brothers Quarries Limited (WBQL) landfill site in Niagara Falls, Ontario. The WBQL facility would essentially be utilized in the event of interruptions to Occidental's facility such as during planned maintenance plant shutdowns and when operational problems occur.

As Committee is aware, the Ministry of the Environment would not give emergency approval to WBQL to amend their landfill site certificate to allow acceptance of Halton's waste and advised that a hearing under Environmental Protection Act legislation would be required. WBQL have made application to the Minister for an amendment to their certificate with final documentation having been forwarded by WBQL's consultant. We expect the hearing to be held in late October or very early November, and are confident that it will be a short hearing and that Walker's application will be approved. Notwithstanding the above, it would appear that we will be unable to ship waste to WBQL until the beginning of 1988.

In addition to the above, there have been increased operational problems at Occidental's EFW plant resulting in less than originally forecast waste volumes being shipped to this facility. For instance, there will be a 3-week shutdown this October. The Steetley component of our export plan has been able to pick up some of the slack, with exports to this facility running approximately 50% ahead of planned quantities. However, Steetley's is a minor component of our plan and has been unable to cover the shortfall created by problems with utilization of the other two components.

The result of the above has been that we now project that some 90,000 tonnes of waste will be landfilled in 1987 in Burlington. At this rate of landfilling we now project that the site will reach its final approved contours by the end of January 1988, which is even earlier than our projection of just a few months ago. Based on the current status of the approval process for Halton's new landfill site, it would appear that the new site will not be operational before mid-1990. In light of the above, staff have been reviewing options that would allow for the continued management of the disposal system for non-hazardous solid waste generated within Halton through 1990 and requiring the use of out-of-Region disposal locations for the total waste stream.

Operational Considerations 100% Waste Export

Before getting into a discussion with regard to the specifics as they may affect Halton under a waste system that relies on 100% export, it is important that Committee be aware that each of the three proposed out-of-Halton disposal facilities differ with respect to hours of operation, acceptable waste, and delivery vehicles and cost.

1. Hours of Operation Under 100% export option, we will be required to adjust our hours of operation to blend in with those of the out-of-Halton disposal facilities. In this regard, Occidental can receive waste 24 hours a day, Monday through Saturday. However, they will from time to time restrict the receipt of shipments during the daytime if congestion occurs in their receiving hall. In this event, they will request suppliers of waste such as Halton, to delay shipments to later in the day.

Sometimes mechanical difficulties will lead to complete cancellation of waste shipments, in which case our waste must be disposed of at some other site.

Walker Brothers' landfill site is open Mondays through Fridays from 7:30 a.m. to 5:00 p.m., and Saturdays from 7:30 a.m. to 12 noon. Unlike Occidental, we believe that Walkers will be able to accept waste reliably within their normal hours of operation, and without restriction. It should be noted, however, that waste will have to leave Halton in sufficient time to ensure vehicles will arrive at Walkers prior to closing.

Steetley's hours of operation are from 7:00 a.m. to 5:00 p.m. Mondays to Fridays. Steetleys are not open on the weekend. As with Walkers, the waste must leave Halton in time to ensure disposal vehicles will reach the site prior to closing.

2. Acceptable Waste Walker's facility can essentially accept any waste acceptable at Halton's landfill site. Both Occidental and Steetley, however, are restrictive on the types of solid non-hazardous waste they can accept. In the case of Occidental, they are primarily interested in the municipally collected green bag garbage as they have a real fear that potentially explosive material or material hazardous to their shredding operation might be taken into their facility. They have in the past accepted some commercial/industrial waste, however they have required us to crush it at our loading facility prior to shipment. Further, we have had to carefully inspect and remove all compressed gas cylinders and any sealed containers, even small ones, that may contain volatile material.

Occidental have stated that they are only willing to accept waste from large transfer vehicles primarily due to traffic considerations at their receiving hall. Walkers would prefer to receive the municipal wastes in transfer vehicles in accordance with their application to the Ministry of the Environment. They are somewhat more flexible on the acceptance of commercial and industrial waste as the smaller loads provide better opportunity to identify non-acceptable material.

Steetley's Certificate of Approval restricts them to the acceptance of inert, non-putrescible waste. The waste is carefully inspected when received by them, and undesirable waste will be reloaded on the delivery vehicle for transportation to another site. In this regard, Steetley have requested that we do not ship waste in municipal-type packers, both to facilitate inspection and to allay any fears of the Ministry or the public that they are accepting the 'green bag' municipal waste. Thus, a 100% export system requires careful screening of the waste prior to shipment, especially in the case of Steetley and Occidental.

3. System Cost At this time the least expensive disposal facility for residential waste is Occidental. Tipping fees currently range from \$6 to \$10, depending on the time of year. However, we do anticipate a substantial increase in the fees in mid 1988 when our current agreement expires.

Providing, of course, that WBQL obtains approval to accept waste from Halton, we propose to ship residential waste to WBQL when Occidental is closed. The tipping fees charged by Walkers are considerably higher than at Occidental, ranging from \$23 to \$25 per tonne in 1988. Steetley's tipping fees are in the \$16-\$18 per tonne range, which places them between Occidental and Walkers. The shipping distances to Steetley are shorter which affords transportation savings; however, there are additional handling costs involved in sorting out the materials acceptable at Steetleys.

Thus, a 100% export system requires flexibility to be able to quickly divert waste shipments on short notice from Occidental to Walkers and vice versa.

Disposal Options

In order to implement 100% waste export, expansion of the transfer system capacity is required. Staff have considered and investigated a number of options set out as follows to accommodate the increased waste exports.

1. Expansion of the existing open air transfer facility at the Burlington landfill site or construction of a supplementary facility on the site.
2. Construction of temporary transfer station(s) in a suitably zoned industrial location(s) and not at the Burlington landfill site.
3. Redirect approximately 10,000 tonnes of municipal/residential refuse from the Milton area through Leferink's private transfer station in Halton Hills (Georgetown).
4. Place an embargo on the acceptance of waste from commercial/industrial sources.
5. Construction of a new transfer station in Halton by a private group.

In the process of staff review, discussions have been held with members of the Burlington Landfill Advisory Committee (BLAC), with staff of the local District Office and the Approvals Branch of the Ministry of the Environment, with the Area Directors of Public Works, with private waste haulers and operators of our proposed out of Halton disposal facilities. The following provides details on the options under consideration and the responses of the various groups who reviewed the option.

1. **Expansion of transfer capacity at Burlington Landfill Site.**

Expansion is required to increase our transfer capacity from the current 700 tonnes per day to approximately 1,100 tonnes per day. It is noted that this option will require an amendment to the Ministry's Provisional Certificate of Approval for this site as well as a site plan amendment approval by the City of Burlington. It should be noted that the existing Provisional Certificate of Approval covers all operations at the site, including both landfilling and transfer operations, and the Certificate expires when the landfill reaches final approved contours.

In order to increase capacity, there are two options under consideration. One would be an expansion of the existing open air transfer station. In this regard, the most feasible option is to expand in a westerly direction by about 150 ft. as well as adding two truck loading bays. Sufficient space is required to allow sorters to inspect the waste. Of prime concern here is a careful inspection of waste that we ship to Occidental to ensure that no wastes are shipped to that facility which could

affect their operation. Also, the tipping pad must allow sufficient room for the sorting of the inert waste which will be shipped separately to Steetley. The remaining waste which is not acceptable to either Steetley or Occidental would be shipped to Walkers. Normally loading of transfer vehicles can be accomplished using one loader, however, during peak period i.e. during spring months, a second loader may be required. One constraint on the site's operation is that no waste can be stored overnight at the facility. Staff do not propose to store waste, however, it should be noted that with increased waste exports, the operation at the loading facility will have to be extended and at times may operate on a 24-hour basis. Our haulage contractor, Jarsno, would be required to add at least 4 additional tractor-trailer units to his fleet.

The estimated cost for the proposed expansion of the transfer station is \$400,000. This estimate is based on maintaining the design of the existing facility, without enhancements. This option could be implemented in a 4 month period.

A variation of this option would be the construction of a supplementary facility on the site. In this regard it would be proposed to construct an enclosed facility to handle the residential waste component only. The existing facility will be dedicated for commercial/industrial waste and would accommodate the sorting required to identify waste suitable for the Steetley facility. The advantages of an enclosed facility would primarily address litter and vector (gull) control, as well as provide improved operations during inclement weather. The estimated cost for the enclosed temporary facility, including engineering, is in the range of \$1,000,000. It is estimated it will take five months for construction of only the enclosed facility. The completion date will be influenced by the extent of engineering design work and approvals required.

It must be stressed that the above two estimates are preliminary as no detailed design work has been carried out.

Comments

The idea of an expansion of the transfer capacity at Halton's landfill site in Burlington was discussed at the 1987 06 09 meeting of BLAC. Following discussion, the Committee moved the following resolution:

"THAT Burlington Landfill Advisory Committee go on record as being categorically opposed to any expansion or alteration to the transfer facility at the Regional Landfill Site in Burlington, and that there be no future activities at the site after it

reaches capacity, with the exception of monitoring and rehabilitation as provided in Council's after-use plan."

The Council of the City of Burlington, on 1987 08 24, enacted Resolution No. EM-36-87-2. The resolution expressed the City's opposition to continued operations at the landfill site beyond the time it reaches final contours, including opposition to continued transfer operations. A copy of the correspondence from the Deputy Clerk setting out the City's resolution is attached as Schedule A to this report.

Schedule B to this report includes a further resolution from Burlington City Council (EM-42-87) which forwards the staff report to EM-36-87; and Schedule C is a letter from the Canadian Environmental Law Association, on behalf of the West Burlington Citizens Group, also expressing opposition to expansion.

MOE staff were originally of the opinion that this may be the most expeditious option to follow, considering the others under consideration. However, they now advise that in light of the opposition of the City of Burlington to this proposal, it is more difficult for them to give us guidance with respect to determining a preferred option from an approvals point of view.

2. Construction of Temporary Transfer Station(s) Not at Burlington Landfill Site

It is not logical to construct a large temporary transfer station in another area of Halton to handle the total wastestream. Considering the interim disposal period involved, costs alone preclude this option. The siting of such a facility is likely to be subject to the same intense opposition as there is to the Burlington landfill facility. Finally, we do not believe a large facility capable of handling all of Halton's waste could be operational in time to meet our current needs. Thus this report proposes the use of a series of smaller transfer stations to serve each municipality. Some restriction could be placed on the waste type accepted at the facility such as solely for the acceptance of industrial/commercial waste, or solely for municipal/residential waste. These satellite station(s) would still require operation of the existing transfer/loading facility at the Burlington landfill site.

The construction of such off-site facilities would require the replacement or duplication of some of the support infrastructure that we have currently in place at the Burlington landfill site. Most notably, it may require the installation of scales.

However, if the satellite facilities are to accept only municipal waste from one municipality, no scales should be required. In this event, Halton would charge the Area Municipality for the waste as weighed at the ultimate disposal facility.

A small temporary enclosed transfer station capable of handling up to 300 tonnes per day and located in a suitably zoned industrial area will cost approximately \$2,500,000 which includes the purchase of approximately 5 acres of property. A separate station is proposed for Oakville and Burlington. As discussed in Option 3, it may not be necessary to build a transfer station in Milton if a private transfer station in Halton Hills (Georgetown) can be used.

This option would require the continued operation of the Burlington transfer station for the acceptance of privately hauled domestic, commercial and industrial waste only. As previously discussed, the commercial/- industrial waste must be carefully inspected and separated to ensure acceptance at either Walkers, Steetleys, or Occidental. A large area is required to separate out and stockpile the waste. The existing transfer/loading facility at the Burlington landfill site is satisfactory for this operation. The size of these satellite stations, the costs involved, including the need for scales, and neighbourhood impact would be substantially increased if the facilities were sized to accommodate commercial/industrial waste.

Comments

It has been previously suggested that Halton consider the construction of a permanent transfer facility as a component of our long term waste management system. Such a facility could complement our EFW strategy, depending on the plant's location. For instance, if the long term arrangements with Occidental became a preferred option, a permanent transfer station would be required. However, it is difficult to evaluate Option 2 in the context of a permanent facility until that study is completed, and further, until the site for Halton's new landfill has been confirmed. Considering that we are seeking an interim solution for a 3-year period, considering cost alone, a large or permanent facility is difficult to justify at this time.

Although more expensive than Option 1, Option 2 is "fairer" in that it decentralizes waste transfer around the Region, thus minimizing the impact to any one municipality or location. Although maintaining transfer operations at the Burlington landfill site beyond the

site reaching final contours and into 1990, operations at the site would certainly be reduced. In fact, due to the hours of operation of Walkers and Steetley, operations at the Burlington site should be restricted to Monday to Friday, daytime only. The facility could be closed down on Saturday for the receipt of waste, although some loading out on Saturdays will be required to clean up material that couldn't be transported on Friday.

This option will also allow Halton to continue to serve the needs of the business community. The existing transfer pad is satisfactory for the sorting of commercial waste, thus the most economical mix of waste for shipment to Occidental, Walkers, and Steetley can be made.

One drawback to this option is the operational difficulties which will be posed with waste being shipped from four or five different locations in Halton. As mentioned at the start of this report, operations in a 100% export mode will be difficult, even if all the waste is being shipped from one central location. The additional stations will make it difficult to redirect or delay the shipping of waste, as sometimes is the case with Occidental. In this regard, Halton will have to add to its staff a person to act as an overall coordinator of transfer operations and additional staff at each transfer station to inspect the waste received to ensure that all waste shipped from the facilities meets the strict requirements of the various disposal facilities.

3. Redirect Milton Municipal Waste to Leferink's Private Transfer Station

Although this option will not completely address Halton's needs, it could form a component of one of the other options under consideration. Milton generates 10,000 tonnes of waste through their municipal collection program. This waste is currently sent to our Burlington site where it is reloaded for disposal at Occidental. In the past Leferink had hauled Halton Hills' municipal wastes directly to Occidental. Once we receive approval to use WBQL, we propose to have Leferink ship the Halton Hills' component directly to that facility. Leferink advise that they could handle Milton's municipal component but may have to increase their fleet of equipment to handle peak quantities. Halton has paid Leferink the equivalent that it would cost to ship waste from the Burlington facility to Occidental. The Town of Halton Hills has had to absorb the additional cost for use of Leferink's transfer

facility. With a potential increase in volume as a result of wastes coming from Milton and with Halton Region continuing to pay for the add on cost to ship from Burlington to Walker Brothers, Leferink have advised that their transfer station costs would be approximately \$20/tonne. Halton would pay Leferink for transfer station charges for acceptance of Milton's municipal waste.

Comment

We believe MOE approval for this change would be relatively easy with the support of Halton Hills. Both Leferink and the Town of Milton's waste systems certificate would have to be amended. To implement this option we would request that Halton Hills support the use of Leferink's transfer station for the acceptance of municipal waste from Milton. It should be noted that since the opening of Leferink's transfer station, the Town of Halton Hills has been responsible for the payment of transfer station fees. Under this option the Region would become obliged to pay these fees as we propose to do for the Town of Milton.

The prime advantage of this option is that it will mitigate the impact of the other options under consideration.

4. **Embargo on Acceptance of Waste from Private Haulers**

An embargo on accepting waste from commercial/industrial sources would limit the volumes of waste accepted at the existing transfer facility at the Burlington landfill site and avoid the need for expansion of the facility at this location. This option would require private haulers to find their own disposal locations for commercial/industrial waste generated within Halton. In this regard we would encourage the private sector to make their own arrangements with private landfill operators to accept waste from Halton. Steetley's industrial landfill site and Walker Brothers' site are potential disposal locations. Halton would no longer take responsibility for the disposal of industrial and commercial wastes until our new landfill is available. We would propose under this option to accept only municipal waste from Halton's four municipalities. It may be possible, in fact, to implement this option some time before the site actually reaches final contours in order to leave Halton with an emergency disposal location in the event of problems with our export option.

The Commissioner of Legal Services advises that in his opinion our municipal legislation would allow Halton to put in place such an embargo. Reference in this context is made to the City of St. Catharines who also do not take responsibility for the disposal of waste from the commercial/industrial sectors, but essentially handles only municipally collected waste at their municipally operated disposal site.

Comment

The implementation of this option would greatly simplify Halton's waste disposal operations. However, the reduced waste volumes would require renegotiation of contracts with our hauler and our station operator. The impact on the private waste hauling industry would be significant. Costs will increase for the haulers, and ultimately their commercial/industrial customers. Costs will also increase due to decreased system efficiency. The private haulers would now have to either develop their own transfer capability or directly haul smaller loads to out of Halton transfer facilities. The interim period of this arrangement may not justify the construction of transfer facilities by the private hauler. The disposal locations that the private sector has available to them are limited. Municipal landfills adjoining Halton are restricted to waste generated within their own jurisdictions.

Our review of the impact of this option on our three disposal sites indicates that there are no serious implications for them. However, the impact on the private haulers is another matter.

Only limited discussions have been held with the private haulers regarding this option, however those discussions indicate that such an embargo would place a considerable strain on the haulers and the entire industrial/commercial waste disposal system. This option would certainly be extremely difficult to implement for industry.

In staff's opinion, implementation of this option, although feasible, would not see Halton acting responsibly with respect to serving the waste disposal needs of industry. Further, we feel this option may discourage industrial and commercial development in the Region.

5. Construction of a Transfer Station in Halton by a Private Group

Preliminary discussions have been held with two private companies to investigate the feasibility of developing a private transfer station in Halton. One of the firms has dropped the idea. The other firm, although still considering the option, is a long way off from implementing the development of the transfer station in this Region. In any event, such development would not be in the near future. However, it should be noted approvals can be obtained more easily by the private sector than municipalities for development of waste disposal facilities.

Comment

It is unlikely a private firm could justify the construction of a facility large enough to meet Halton's 1,100 tonnes per day requirement over the next years without long term use commitments in place. Even a small facility of 400 tonnes per day that would meet our transfer capacity shortfall may not make economic sense for a 3-year period. As previously mentioned, it is difficult for Halton to commit for a longer time frame until our EFW options(s) have been confirmed, as well as the location of our new landfill determined.

Recommended Transfer Option.

If cost and operation were the only consideration, Option 1, i.e. expansion of the existing transfer facilities at Halton's landfill site in Burlington, would be the preferred option. However, other matters such as commitment to close the Burlington landfill site when it reaches final contours, and sharing of responsibility between Halton and its four Area Municipalities for dealing with waste during this interim period, come into play. Thus Option 2, the development of a satellite transfer system for the acceptance of municipal/-residential waste is recommended. As previously discussed, this option would propose the construction of temporary transfer station(s) in Burlington and Oakville, with Milton and Halton Hills using Leferink's private transfer station in Halton Hills (Georgetown). Halton would continue to operate its current transfer/loading facility in Burlington to accept and sort commercial/industrial wastes. Under this scenario, both waste quantities, traffic, and hours of operations would be reduced at Halton's waste disposal facilities at the Burlington Landfill Site. It must be made clear, however, that the Burlington Landfill Site loading/transfer facility would continue to operate under this option. In addition, Burlington's container station for small loads of residential waste would also continue to be located at that site, at least in the interim period.

Hours of Operation - Halton's Transfer/Loading Station, Burlington.

The landfill site and transfer/loading station are now open Monday through Saturdays from 8:00 a.m. to 5:30 p.m. in summer and 8:00 a.m. to 4:30 p.m. in winter, and on most Statutory Holidays. The future hours of operation at Halton's Burlington landfill transfer/loading station will be influenced by two factors: the hours that the out-of-Halton disposal sites are open, and that waste storage at the open air station should be minimized. With those constraints in

mind, it is recommended that the station be closed on Saturdays, except for the receipt of residential waste from the public container stations.

Waste delivered to the station after 3:00 p.m. each day, including Fridays, would be loaded on transfer vehicles for delivery first thing the following morning. Thus some transfer vehicles would make shipments from the station on Saturday mornings.

From time to time some overnight storage on the pad may be required. Every attempt will be made to minimize storage. Stored waste will be covered to prevent blowing litter from escaping.

The landfill site is now open from 8:00 a.m. to 5:30 p.m. in Summer and 8:00 a.m. to 4:30 p.m. in Winter, and most Statutory Holidays. To encourage the receipt of waste earlier in the day we would recommend the station open one hour earlier Monday through Friday. Thus the proposed new hours of operation would be 7:00 a.m. to 5:00 p.m. Monday to Friday.

We have been advised by private haulers that it is difficult for many of their customers to store waste for more than 2 days. Businesses of concern are restaurants and hotels which do a large portion of their business on weekends. Thus it is recommended that the station continue to be open on Statutory Holidays, when these fall on Mondays or Fridays, so a 3-day closing will not occur. Arrangements can be made with Walkers to receive waste on holidays, although an overtime premium would have to be paid.

Hours of Operation - Municipal Waste Transfer Stations

The hours of operation of the temporary municipal waste transfer station(s) proposed for Oakville and Burlington will be set to accommodate the waste collection schedules of the two Area Municipalities, generally 8:00 a.m. to 4:00 p.m. Monday to Friday, for the acceptance of waste. The waste will be shipped to Occidental for disposal with all waste received being loaded out the same day to minimize storage. Thus, transfer vehicles will be leaving the station up to 8:00 p.m. in the evenings. Further, as proposed below, the station will be open Saturdays 8:00 a.m. to 4:00 p.m. for the acceptance of residential waste from private residents, similar to our current public container station operation. Over weekend storage of waste received on Saturdays will be required.

Public Container Stations

Halton's four public container stations are solely for the receipt of residential waste. Committee will recall report

PW 83/87 regarding the container stations. No changes are proposed with regard to either the Milton or Halton Hills container stations. It may be feasible for the Burlington and Oakville public container station to be relocated to the proposed new satellite transfer station(s). This change would allow Halton's existing transfer/loading station in Burlington to be closed down Saturdays.

Current contracts for the operation of Burlington and Oakville public container stations extend to the end of 1988. There will be costs involved to make an early termination of the contracts. Thus Halton should continue to operate the container station at their existing locations until the end of 1988. The additional time will also allow time to establish our new transfer systems prior to moving the stations.

It should be noted that once the waste collected at the public container stations is mixed with and weighed with waste from regular municipal collection, the Area Municipalities would be charged tipping fees based on total tonnage. This will result in an additional 2,000 tonnes of waste per year charged to each Area Municipality. The cost of disposal for this waste is currently absorbed by the Region.

Implementation and Emergency Approval

Halton's landfill is projected to reach final approved contours in January 1988. It is unlikely that we will be able to implement the proposed transfer system by this date, with the exception of the Milton component.

We believe that, due to the lower waste volumes in the February through April period, and without Milton's residential waste, we should have sufficient capacity at the loading/transfer station to handle, but with some difficulty, the Oakville and Burlington residential waste, as well as industrial/commercial waste, until the end of April. After that date, with the seasonally increased waste volumes, sufficient capacity is not available. Thus we must have the Oakville and Burlington satellite stations in place by 1988 05 01.

Due to this very tight schedule, Oakville and Burlington should identify the preferred and approvable site to transfer their municipal waste by the end of October 1987. In order to implement the recommendations in this report in the limited time available, emergency approval of the Ministry of the Environment is required. It is recommended that the Regional Chairman request support from the Minister of the Environment for the required emergency approval.

Further, staff must have full authority to proceed as quickly as possible to obtain the necessary property, design the

temporary facilities, build the facilities, and have them operational by 1988 05 01. If we follow Halton's normal tendering procedures as set out in the Purchasing By-law, we will not be able to meet this tight schedule. Thus we are recommending that staff be authorized to select and issue a purchase order for the services of a consulting engineering firm to carry out the necessary design work and construction management, issue contracts and purchase orders to suppliers and contractors to build the facilities, and further, authorize the Property Manager to purchase necessary lands on which to construct the facilities. All of these activities, especially land purchases, would be reported for Council as we proceed; however, it must be clear that the time frames are very tight, and that some degree of flexibility is essential. The capital costs for land, consulting services and facilities for two stations, are estimated at \$5,000,000. We caution Committee that these are preliminary cost estimates.

Staffing Requirements

The operation of satellite transfer stations and the strict "acceptable waste" standards set by Walkers, Steetley, and Occidental, will require the hiring of additional staff. We would propose to continue to contract out the operation of transfer station(s) and public container station(s). However, we will require at least one member of the Waste Disposal Division staff at each satellite transfer station to inspect the waste as it is loaded to ensure unacceptable waste is not shipped out. Inspection and sorting of commercial/industrial waste is more intensive and thus we will maintain the present staff complement of three Regional sorters (temporary staff) at our existing transfer/loading facility. These positions initially will be filled on a temporary/contract basis.

Further, we will now require a Supervisor to direct the operation of the expanded waste transfer system. The Supervisor should be hired on a permanent basis as this person will be required during the development and operation of our new landfill site. This additional staff will be required in 1988 as the new transfer stations open. Relief staff will also be required due to the extended hours of operation of the loading facilities beyond the normal 40 hour work week, as well as for vacation fill in.

Financial Implications

Finance staff have reviewed the implication of the various export options set out in this report, in the context of funding requirements for the entire Solid Waste Management program in 1988. Details of these calculations are set out on Schedule D attached. In summary, based on preliminary

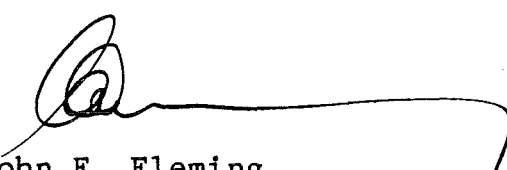
estimates the requirement to export all solid waste out of the Region will cost at least \$42 per tonne in 1988, not including any required capital expenditures. With the need for new capital facilities (either one or two new transfer facilities) these costs could be as high as \$53 per tonne. These costs are related only to the export portion of the waste management program and therefore do not include such additional costs as source separation, site rehabilitation, overheads etc.

At the present time it is forecasted that approximately \$965,000 of unallocated reserves would be available to moderate increases in tipping fees in 1988. Therefore, with the full utilization of these available reserves, the total tipping fee increases can be expected to range between 42% (to \$52/tonne) under the option of expanding the existing Regional landfill site open transfer facility; through an increase of 69% (to \$61/tonne) for one new station; to a possible increase of 81 % (to \$66/tonne) if two new enclosed transfer stations are built.

Several further points must be raised. First, the option to expand the present transfer facility can be fully financed in 1988 given available reserves. However, in the case where one or two new transfer facilities are required, capital costs must be debentured, resulting in related debt charges totalling as much as \$3.2 million in future years (1989 and 1990). Also, the tipping fee increases utilize all available landfill reserves including surpluses anticipated in the 1987 solid waste operating budget. This will therefore require that all non-export capital requirements in 1988 will have to be debenture financed, and absolutely no cushion will exist should operating costs exceed estimates in 1988.

As noted above, these estimates are preliminary. Recommendation 15 instructs the Commissioner of Finance and Regional Treasurer to refine these estimates for inclusion in the 1988 Solid Waste Management budget, to be presented for consideration in late October. Recommendation 16 provides for a request for MOE assistance in funding a portion of the exports expenditures, but financial calculations have made no allowance for receipt of these funds.

Respectfully submitted



John E. Fleming
Chief Administrative Officer

JRM:sw
Attach.



City of Burlington

420 Grant Street, Burlington, Ontario, Canada
Mailing Address: 335-7705
P.O. Box 5013, Burlington, Ontario, Canada L7R 3Z6

Telephone: 335-7705
File No.: 760-05

SCHEDULE "A" TO REPORT CAO 163/87

August 27, 1987

Mr. David Varley, Clerk
Regional Municipality of Halton
1151 Bronte Road, P.O. Box 7000
Oakville, Ontario
L6J 6E1

Dear Mr. Varley:

SUBJECT: Opposition to Extension of Burlington Landfill Site

The Council of the Corporation of the City of Burlington at its regular meeting held on August 24, 1987 enacted the following resolution being Item No. EM-36-87-2:

WHEREAS City of Burlington residents have previously been assured by the Region of Halton that the Burlington Landfill Site and Transfer Station would not be extended beyond the approved contours, the City of Burlington wishes to indicate to the Region of Halton and the Minister of the Environment that the City expects the Region of Halton to honour its commitments and will oppose any application to extend the existing certificate of approval.

File: 760-05

In accordance with the above resolution please accept this letter as the City of Burlington's formal opposition to any application to extend the existing certificate of approval for the Burlington Landfill Site and Transfer Station.

Yours truly,

Ronald S. Lathan, A.M.C.T., C.M.C.
DEPUTY CITY CLERK

RCL/sb
3439c

- c.c. - Mr. M. Fenn, Chief Administrative Officer
- Mayor Roly Bird
- Alderman W. Mulkewich, Chairman of Environmental Management Committee
- Mr. A. Ramsay, Environmental Management Co-ordinator
- Mr. Mike McQuaid, Weir and Foulds, Barrister and Solicitor, Suite 1600, Exchange Tower, P.O. Box 480, #2 First Canadian Place, Toronto, M5X 1J5

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The Corporation of the
City of Burlington

City Hall:
426 Brant Street, Burlington, Ontario, Canada
Mailing Address:
P.O. Box 5013, Burlington, Ontario, Canada L7R 3Z6

Telephone: 335-7697
File No.: 760-04-B

RECEIVED

A.M. P.M.

September 15, 1987

Mr. David Varley
Regional Clerk
Regional Municipality of Halton
P.O. Box 7000, 1151 Bronte Road
Oakville, Ontario
L6J 6E1

CHIEF ADMINISTRATOR
REGIONAL MUNICIPALITY
OF HALTON

Dear Mr. Varley:

SUBJECT: Development and Operation of the Burlington Landfill Site

The Council of the Corporation of the City of Burlington at its regular meeting held on September 14, 1987 enacted the following resolution being Item No. EM-42-87 (Motion 236):

THAT, as a follow up to Council Resolution EM-36-87-2, dated August 24, 1987, regarding opposition to the extension of the Burlington Landfill Site, the City Clerk be directed to forward a copy of Chief Administrative Officer's Report CAO-37/87, dated September 9, 1987 providing information on the Development and Operation of the Burlington Landfill Site to the Regional Clerk;

and that the Regional Clerk be requested to place CAO Report 37/87 and Council Resolution EM-36-87-2 on the agenda for the upcoming meeting of the Region's Solid Waste Management Committee to be held at the end of September, 1987.

File: 760-04B

In accordance with the above resolution I have enclosed a copy of CAO Report 37/87 and certified true copies of Council Resolutions EM-42-87 and EM-36-87-2. Please place these items on the agenda for the Region's Solid Waste Management Committee for their meeting to be held at the end of September.

Thank you for your consideration.

Yours truly,

Helen MacRae, M.P.A.
CITY CLERK AND DIRECTOR OF
ADMINISTRATIVE SERVICES

LB/sb
3526c

- 44 -

CLERK'S OFFICE			
COPIED TO			
TO: Mayor		TO: Council	
TO: CAO	X	TO: Committee	✓
TO: Solid Waste		TO: Rep.	✓
TO: M.C.		TO: Rep.	X
TO: Solid Waste	X	TO: Rep.	
TO: Solid Waste	X	TO: Rep.	
TO: Solid Waste	✓		
TO: Solid Waste			
TO: Solid Waste			
TO: Solid Waste			

S. ROGERS X

DATE September 14, 1987

MOVED Alderman Mulkewich

SECONDED Alderman Cowman

* EM-42-87

OPERATION AND DEVELOPMENT OF THE BURLINGTON
LANDFILL SITE

THAT, as a follow up to Council Resolution EM-36-87-2, dated August 24, 1987, regarding opposition to the extension of the Burlington Landfill Site, the City Clerk be directed to forward a copy of Chief Administrative Officer's Report CAO-37/87, dated September 9, 1987, providing information on the Development and Operation of the Burlington Landfill Site to the Regional Clerk;

and that the Regional Clerk be requested to place CAO Report 37/87 and Council Resolution EM-36-87-2 on the agenda for the upcoming meeting of the Region's Solid Waste Management Committee to be held at the end of September, 1987.
File: 760-04B

CERTIFIED A TRUE COPY

[Signature]

CITY CLERK

- 45 -

"R. L. BIRD" MAYOR

DATE August 24, 1987

MOVED Alderman Cowman

SECONDED Alderman Mulkewich

EM-36-87-2

OPPOSITION TO EXTENSION OF LANDFILL SITE

WHEREAS City of Burlington residents have previously been assured by the Region of Halton that the Burlington Landfill Site and Transfer Station would not be extended beyond the approved contours, the City of Burlington wishes to indicate to the Region of Halton and the Minister of the Environment that the City expects the Region of Halton to honour its commitments and will oppose any application to extend the existing certificate of approval.

CERTIFIED A TRUE COPY

[Signature]

CITY CLERK

- 46 -

"P. I. BIRD" MAYOR

CITY OF BURLINGTON

C.A.O. 37/87

September 9, 1987

Chairman and Members of the
Environmental Management Committee:

Subject: Development and Operation of the Burlington Landfill
Site
File: 760-05

RECOMMENDATION:

None - For Information Only

REPORT:

The purpose of this report is to provide Committee members with additional information regarding the development and operation of the Burlington Landfill Site.

Appendix 1 contains a chronology of the key events surrounding the development and operation of Burlington Landfill Site. Appendix 2 contains a listing of the closure dates for the Burlington Landfill Site as estimated by Regional staff.

In summary, during the 15 years that the site has been operated the boundaries and/or fill capacity have been expanded three times, a temporary loading facility has been constructed and expanded, and five interim waste disposal plans have been adopted by the Region of Halton. All of these events have occurred in the midst of Halton's efforts to establish a new landfill facility for the Region.

The first expansion at the Burlington Landfill Site occurred in 1980. This expansion, which increased the size of the site from 45.0 Hectares to 63.8 Hectares and increased the fill area from 22.3 Hectares to 29.3 Hectares, was an integral part of Halton's first interim waste disposal plan. The general aim of Interim Waste Display Plan No. 1 and the expansion of the Burlington Landfill Site was to provide Halton with disposal facilities through 1984.

The second expansion of the site took place in 1984 during an emergency situation. In the summer of that year Halton was in a situation where its only operating disposal facility was within a few days of reaching capacity. The Ministry of the Environment approved Halton's application to continue to fill at the Burlington Landfill Site on a limited emergency basis. At the same time, Halton was also seeking approval for a major 4-phase expansion of the site's capacity. As a result of a 1984 Environmental Assessment Board Hearing the capacity of the site was expanded by approximately 750,000 tonnes. This expansion was part of Halton's second interim waste disposal plan. The objective of this plan was to continue operations at the Burlington Landfill Site until early 1987.

The staff and consulting reports prepared in support of the Region's 1984 expansion application gave the indication that, if this application was approved, the Burlington Landfill Site would be closed in 1987. In addition, the evidence given at the hearing by the then Regional Chief Administrative Officer, Mr. D. Perlin, also indicated it was Regional Council's intention to close the Burlington Landfill Site in 1987. The following are excerpts from the 1984 expansion hearing:

1. Page 1593 - Transcript - 1984 Region of Halton
Landfill Expansion Hearing

Mr. Perlin. A: ...I really cannot say to this Board other than we have made or this Council has made its commitment and in fact the advice of our professionals to us as staff and to Council has been that that is it for this site.

2. Pages 1593-1594 - Transcript - 1984 Region of Halton
Landfill Expansion Hearing

Mr. Jeffrey. Q: What do you expect would happen if you don't have an alternative site in 1987? Suppose it is just not available? Would you be coming back for further extension here?

Mr. Perlin. A: It would be my opinion we would not be back for extension to this location and we have engineered this site to what is environmentally safe and suitable. That is my opinion and I believe that Council will stick to that commitment. It had a questionable interim expansion which we will be getting to shortly I guess in Oakville about whether that interim expansion that took place in Oakville, and I will address that in more detail I guess in a little while, whether it should have taken place but Council made the commitment that if it did take place in 1980 there would be no further and Council did not go back to look again at Oakville because Council respected the commitment that that is the last that should be done in the way of landfilling at the Oakville site and really respected the opinion from its consultants and did not go back this time.

3. Pages 1596 - 1597 - Transcript - 1984 Region of Halton
Landfill Expansion Hearing

Mr. Chairman (Eisen) Q:...will there be a commitment not to extend it or is that given?

Mr. Perlin. A:All I can say is that Council has indicated that that is its commitment, this Council, this Council cannot bind future councils, but I have indicated to you that in the case of Oakville which was a previous council this Council respected the previous council's commitment and we have gone after what we can. Now, what would happen in 1987; I don't know what will happen in 1987 and as to where we would go. It is all speculation as to what we could do and where we could go.

4. Pages 1643 - 1845 - Transcript - 1987 Region of Halton
Landfill Expansion Hearing

Mr. Brown. Q:has there been a regional commitment that there be no more interim applications for filling in the Burlington Site?

Mr. Perlin. A: ...Basically it would be my indication that this Council is indicating that this is the program for Halton and this is it at this particular site and they are prepared to enter into an agreement that would not only fix it at the four phases but say that we would attempt to go to the new site as soon as the new site is found and is operable.

5. Page 1648 - 1649 - Transcript - 1984 Region of Halton
Landfill Expansion Hearing

Mr. Brown. Q: Mr. Perlin, would it be your recommendation to Regional Council that if a decision is not made on the other applications at the time that the capacity of this application is used up, that Regional Council look somewhere else.

Mr. Perlin. A: We would have to look elsewhere and that would be my recommendation to Regional Council and I can't see it changing and us continuing at the existing Burlington site.

Immediately following the 1984 expansion hearing the Region adopted its third interim waste disposal plan. The approach taken by the Region in this plan was to divert approximately 50,000 tonnes of waste to an Energy From Waste (EFW) Plant. In order to facilitate the transfer of waste to the EFW Plant a transfer station was required. Notwithstanding opposition by the City of Burlington a temporary loading facility was approved by the Ministry of the Environment for the Burlington Landfill Site on a six-month trial basis. The approval of this station was further extended by the Ministry of the Environment.

Over the next two years the Region adopted two additional interim waste disposal plans. The basis for each of these plans was to prolong the operating life of the Burlington Landfill Site by increasing the amount of waste being diverted to other disposal facilities located outside of the Region. Under the current plan, Interim Waste Disposal Plan No. 5, approximately 85% of Halton's waste is to be disposed of outside of the Region. To facilitate the increased volume of waste being exported from Halton the temporary loading facility has been expanded twice. The current facility now has a loading capacity of 600 tonnes/day and operates 14 hours/day. A detailed description of Interim Waste Disposal Plan No. 5 was previously presented to Committee in Confidential CAO Report 33/87.

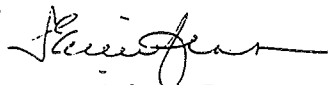
September 9, 1987

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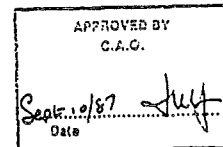
From the above it is apparent that during the period 1980 to 1987 the continuation of operations at the Burlington Landfill Site has been one of the Region's principal ways to deal with its waste disposal responsibility.

Respectfully submitted,


J. Allan Ramsay
Environmental Management Co-ordinator


W. Michael Fenn
Chief Administrative Officer

WMF:JAR:sb
6101u
attch.



APPENDIX 1
BURLINGTON LANDFILL SITE
CHRONOLOGY

July, 1971	Application for a Certificate of Approval for a waste disposal site filed by the then Town of Burlington.
May, 1972	Provisional Certificate of Approval No. 210201 issued for Burlington Landfill Site. Site subsequently opened.
January, 1974	Inception of Regional Government
July, 1974	Application to amend Certificate of Approval submitted by Halton Region to change site ownership.
September, 1974	Amended Certificate of Approval issued to Halton Region.
1978	Halton Region adopts Interim Waste Disposal Plan No. 1. In part, the Plan involved the proposed expansion of the Burlington Landfill Site. The planning period extended through 1984.
April/May, 1980	Environmental Assessment Board hearing and decision approving expansion of the landfill area and site capacity at the Burlington Landfill Site.
October, 1980	Ministry of the Environment amends the Certificate of Approval to incorporate the EA Board decision.
March, 1983	Halton Region authorizes studies to examine the potential of continued and expanded use of the Burlington Landfill Site.
December, 1983	Halton Region approves studies which recommend the expansion of the capacity of the Burlington Landfill Site (Interim Waste Disposal Plan No. 2). The planning period was June, 1984 to June 1988 with the continuation of the Burlington Landfill Site to early, 1987.
February, 1984	Halton Region submits application to expand the capacity of the Burlington Landfill Site. Supporting documents indicate the planning period extends through 1987 if necessary. Regional Council enacts a resolution confirming "..... that only as many of the proposed four phases as are necessary will be utilized until commencement of operation of the long-term landfill component for Halton."

Regional staff indicate in PW 18/84 ".... other concerns have been voiced by the West Burlington Ratepayers Group and the neighbours of the site include the fact the present expansion was to have been the last one in 1980, and yet here we are back applying for further continuation in 1984. People are asking what assurance there is that the Region won't carry on landfilling at the existing site after the present Continuation Plan has run out..... The (site plan) agreement could also formalize the commitment that there would be no further landfilling beyond Phases A, B, C & D....."

Regional Council enacts a resolution stating "That this Council hereby confirms its commitment to the four-phase Continuation Plan for landfilling at the existing Burlington Landfill Site as part of Interim Waste Disposal Plan 1983 and reconfirms its rejection of the Export Option to the Occidental Energy From Waste Plan.....".

May/June, 1984 Environmental Assessment Board hearing into Region's proposal to expand site capacity.

June, 1984 Halton Region submits an "Emergency" application to permit landfilling operations to continue at the Burlington Landfill Site because of the limited remaining capacity.

July, 1984 Ministry of the Environment amends Certificate of Approval on an emergency basis to permit landfilling operations to continue (pending outcome of EA Board hearing).

July, 1984 Environmental Assessment Board decision released. The Region's 4-phase landfill expansion plan is approved subject to various conditions.

September, 1984 Ministry of the Environment amends the Certificate of Approval to incorporate the decision of the EA Board. Closure of the Burlington Landfill Site directly related to achieving final contours rather than a specific calendar date.

December, 1984 Halton Region adopts Interim Waste Disposal Plan No. 3. The Plan diverts 50,000 tonnes of waste to the Occidental Energy From Waste Plant and requires the construction of a transfer station with a loading capacity of 400 tonnes/day at the Burlington Landfill Site. The planning period for the Plan was 1985, 1986 and 1987, if necessary.

Regional staff advise City staff that the temporary loading facility will be used to export up to 400 tonnes/day in 1985, 1986 and 1987, if necessary.

January, 1985 Ministry of the Environment amends the Certificate of Approval permitting the operation of a temporary loading facility for a trial period of six months ending July 31, 1985.

June, 1985 Regional staff indicate in PW 161/85 that "...in view of the interim nature of the facility (transfer station) we recommend that the facility not be enclosed at this time".

July, 1985 Ministry of the Environment amends the Certificate of Approval extending the operating life of the temporary loading facility to January 31, 1986.

Regional Council defers consideration of the following recommendation originating in CH 6/85:

"THAT the Regional Solid Waste Management Committee be authorized to meet with the Burlington Solid Waste Management Committee to discuss the placement of an enclosed transfer station at the existing Regional Landfill Site in Burlington, the interim use of the existing open air loading facility and the future use on a back-up basis of the existing Regional Landfill Site in Burlington."

August, 1985

Halton Region adopts Interim Waste Disposal Plan No. 4. The Plan diverts an additional 50,000 tonnes of waste to Occidental (total diversion 100,000 tonnes) and requests the expansion of the transfer station to permit the loading of an additional 60 tonnes/day at the Burlington Landfill Site (total loading in Burlington 460 tonnes/day). The planning period is August, 1985 to August, 1988.

December, 1986

Halton Region adopts Interim Waste Disposal Plan No. 5. The Plan diverts an additional 70,000 tonnes of waste (total diversion 170,000 tonnes) and requires expansion of the transfer station to permit the loading of an additional 140 tonnes/day (total loading 600 tonnes/day). The planning period is January, 1987 to December, 1989

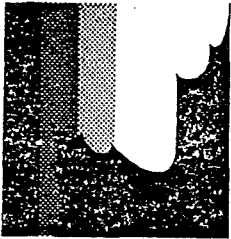
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APPENDIX 2
BURLINGTON LANDFILL SITE
ESTIMATED CLOSURE DATES

<u>Regional Report</u>	<u>Date of Report</u>	<u>Estimated Closure Date</u>
CAO 219/83	July, 1983	A projection for that particular site (Burlington Landfill Site) is that it will reach presently approved contours in the period June to August, 1984.
PW 19/84	February, 1984	"The latest estimated site closure date is August, 1984.
CAO 351/84	November, 1984	Capacity at the Burlington Landfill Site is expected to be exhausted in early 1987.
CAO 248/85	August, 1985	"... (as a result of Interim Waste Disposal Plan No. 3) the existing Regional Landfill Site in Burlington can be extended through August, 1988.
Landfill Closure and After-Use Report	December, 1985	" It is presently forecasted that it (Burlington Landfill Site) will reach capacity in Aug/Sept. 1988..." The closing date at this time has been forecasted to be August 31, 1988".
CAO 167/86	April, 1986	"It is now expected that capacity at the existing Landfill Site in Burlington, even with the increased use of the Occidental Energy From Waste Plant (Interim Waste Disposal Plan No. 4) in the years 1986 through 1988 will be reached by January, 1988 or perhaps as late as April '88". ----- "Halton will be fortunate to have a new landfill in operation by 1991."
PW 145/86	April, 1986	" We now anticipate that the landfill (Burlington Landfill Site) will be at capacity in early 1988 with a closure date forecast between January and April of that year."
PW 292/86	August, 1986	".... estimated the Burlington Landfill Site will be filed by late fall, 1987".
PW 291/86	September, 1986	"The landfill life gained through the increased diversions (Interim Waste Disposal Plan No. 5) coupled with increased recycling would make the landfill (Burlington Landfill Site) last to the end of 1989.

<u>Regional Report</u>	<u>Date of Report</u>	<u>Estimated Closure Date</u>
PW 358/86	November, 1986	"....Interim Waste Disposal Plan No. 5 essentially proposes to prolong the life of the Site (Burlington Landfill Site) until the end of 1989.
PW 69/87	April, 1987	"Based on the present rate of landfilling, the site will reach its final approved contours by mid-1988

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THE REGIONAL LANDFILL BOARD
Canadian Environmental Law Association
L'Association canadienne du droit de l'environnement

243 Queen Street W., 4th Floor, Toronto, Ontario M5V 1Z4 telephone (416) 977-2410

BY COURIER

September 18, 1987

Chairman and Members of the Solid Waste
Management Committee
Region of Halton
1151 Bronte Road
Oakville, Ontario
L67 6E1

Dear Sirs/Mesdames:

We are writing on behalf of the West Burlington Citizens Group in relation to the existing Regional Landfill in Burlington. According to the Certificate of Approval issued in 1984, the site is to close when it reaches its final contours. It is our understanding that this will occur early in 1988. The Joint Board presently hearing the application for a new regional site will probably continue until early 1988, and a new site will therefore not likely be open until 1989 or 1990.

Our clients are concerned that the Region will apply to expand the existing Burlington landfill and/or the transfer station. They wish to register their opposition to any such application at this time. We would urge the Region to adhere to public commitments made in the past that the site would not be expanded. In particular, at the expansion hearing in 1984, the Chairman of the hearing Board questioned Mr. Perlin as to whether the Region would be applying for any further expansion at the existing site should a new Regional site not be established at the time the existing site was filled. Mr. Perlin testified that the Region would "not be back for extension to this location" (Transcript, p. 1594). Mr. Perlin also agreed that the maximum capacity for the existing site had been applied for in the 1984 application (Transcript, p. 1648). The Environmental Assessment Board in its 1984 report on the expansion hearing discussed commitments made in the past by the Region and expressed sympathy for the views held by our clients that commitments to close the site should be honoured. It is also clear that the transfer station was to be a temporary station and in fact the Region has taken the position that a transfer station would not be needed as part of a future waste management system.

We would therefore urge this committee and council to adhere to their commitments and to make alternative arrangements for garbage handling and disposal. It is our position that the existing landfill should be closed as soon as capacity is reached, so that revegetation can be commenced in a timely fashion. We do not believe that the site should be kept open indefinitely to take a small amount of residual waste.

We would appreciate being informed of any action taken by the Region in relation to the existing site or transfer station.

Yours truly,

CANADIAN ENVIRONMENTAL LAW ASSOCIATION

Toby Vigod

Toby Vigod
Counsel

/lg

cc: Honourable James Bradley

Implication of Export Options
on 1988 Solid Waste Management Operating Budget

<u>Required Expenditures</u>	<u>Expansion to Existing Transfer Facility</u>		<u>Construction of One New Transfer Facility</u>		<u>Construction of Two New Transfer Facilities</u>	
	\$ (000)	\$/tonne	\$ (000)	\$/tonne	\$ (000)	\$/tonne
1) <u>Export Plan</u>						
Additional Staff	\$ 0	\$ 0	\$ 75	\$ 0.38	\$ 110	\$ 0.55
Transfer Stn. Op. Costs	1,860	9.30	2,110	10.55	2,180	10.90
Debt Charges	0	0	818	4.02	1,622	8.11
Haulage Costs	2,880	14.40	3,060	15.30	3,060	15.30
Tipping Fee	3,730	18.65	3,730	18.65	3,730	18.65
Sub-Total	\$ 8,470	\$ 42.35	\$ 9,793	\$ 48.97	\$10,702	\$ 53.51
2) <u>Other Waste Disposal Costs</u>	2,523	12.62	2,523	12.62	2,523	12.62
3) <u>Transfer from Reserves</u>	(565)	(2.83)	0	0	0	0
<u>Total Operating Budget</u>						
<u>Expenditure (recoverable from Tipping Fees)</u>	<u>\$10,428</u>	<u>\$ 52.14</u>	<u>\$12,316</u>	<u>\$ 61.58</u>	<u>\$13,225</u>	<u>\$ 66.13</u>
<u>Required Increase in 1987 Tipping Fee</u>		<u>+ 42.8</u>		<u>+ 68.9</u>		<u>+ 81.2</u>

NOTE: Expansion of the Existing Facility requires no debt charges, since all capital costs are paid immediately.

Construction of One New Facility requires payment of additional debt charges totalling \$1.6 million in future years (corresponding to a \$4.00 cost per tonne in each of 1989 and 1990).

Construction of Two New Facilities requires payment of additional debt charges totalling \$3.2 million in future years (corresponding to an \$8.00 cost per tonne in each of 1989 and 1990).

THE REGIONAL MUNICIPALITY OF HALTON

Report to The Chairman and Members of the Solid Waste
Management Committee

From John E. Fleming
Chief Administrative Officer

Date 1987 09 24

Report No CAO 156/87

Re: Report to Council on the Status of the Consolidated
Hearing on Halton's Landfill Site Selection -
Budget Review

RECOMMENDATION:

- 1 a) THAT the revised Hearing Budget set out in Appendix "A" to CAO 156/87 be approved and that the required budget adjustment of \$324,779.00 be transferred from the Landfill Reserve Fund.
- b) THAT \$49,000.00 from the existing contingency contained within the Environmental Assessment Hearings Budget be used to finance part of the additional requirements included on Appendix "A" to CAO 156/87.
2. THAT the Landfill Approvals Coordinator's position be extended to April 30, 1988.
3. THAT the Landfill Approvals Coordinators Operating Budget for the period of September 1, 1987 to April 30, 1988 be approved, and that the additional operating budget requirement of \$47,484.00 be transferred from the Landfill Reserve.

REPORT

EXECUTIVE SUMMARY

The Consolidated Hearing into Halton's Site Selection Process commenced on May 5, 1987. Halton commenced the hearing by calling some twelve witnesses in support of its case. Due to the illness of the Chairman of the Joint Board at the end of June, the hearing was adjourned until September 14, 1987. The hearing has now reconvened and the Chairman is well enough to participate in this hearing.

Over the course of preparation for and attendance at the hearing, some of the major issues have evolved. As a result of the summer adjournment, and the progress of the hearing, it is anticipated that the hearing will last until the end of March, 1988.

It is now some ten months since the original Hearing Budget was approved. In accordance with the original intention of staff, a revised Hearing Budget is now being presented for approval.

Additionally, it has become apparent that the Landfill Approvals Coordinator position will be required until at least April of 1988. As a result thereof a new Landfill Approvals Coordinator Operating Budget has been submitted for approval by Council.

Consolidated Hearing Progress

On May 5, 1987, the Consolidated Hearing on Halton's Landfill Site Selection Process commenced. The hearing is being held on the main floor hall, facing Lakeshore Boulevard, of the new commercial/residential Granary building.

After preliminary procedural matters were completed, Halton commenced the presentation of evidence in support of its case. The following witnesses were called in support of Halton's case.

- | | | |
|-----|---------------------------------------|-----------------------------|
| 1. | C.N. Watson & Associates - | Waste Quantities and Needs |
| 2. | Bird & Hale - | Biophysical |
| 3. | Ecological Services
for Planning - | Agricultural Rehabilitation |
| 4. | Giffels - | Transportation |
| 5. | Landplan Inc. - | After Use |
| 6. | Landplan Inc. - | Heritage Evaluation |
| 7. | Landplan Inc. - | Visual Assessment |
| 8. | Senes Consultants - | Air Quality |
| 9. | J.E. Coulter & Associates - | Noise Evaluation |
| 10. | Schiff & Associates - | Social Assessment |
| 11. | Museum of Indian
Archaeology - | Archaeological Assessment |
| 12. | Trow Hydrology Consultants - | Hydrogeology |

By the end of June, Trow Hydrology Consultants Ltd. had given the Hydrogeological evidence in chief, and cross-examination of these witnesses had commenced. Unfortunately, in the middle of cross-examination of Trow Hydrology Consultants by counsel for the Town of Milton, the Chairman of the Board became seriously ill.

As a result of the Chairman's illness, the hearing was adjourned for three days, and subsequently, the Board heard representations from all parties as to how the hearing should proceed in the event that the Chairman did not recover sufficiently from his illness to return to the hearing.

After hearing representations from all parties, the Board issued a decision that the hearing would be adjourned until September 14, 1987, at which time the hearing would reconvene and proceed with the Chairman if the Chairman recovered, or with the remaining two members of the Board should the Chairman not recover sufficiently to return to the hearing.

Happily, the Chairman of the Joint Board has recovered sufficiently to return and participate in the Consolidated Hearing. Thus, the hearing reconvened on September 14, 1987. The cross-examination of Trow Hydrology Consultant's hydrogeology witnesses is continuing. To date, the hydrogeology witnesses have been on the stand some four weeks. It is anticipated that these witnesses will be subject to cross-examination for another three weeks at least.

Hearing Issues

Throughout the time required for the preparation of the hearing, and the time spent in presenting Halton's evidence at the hearing, it has been possible to attempt to ascertain what matters will be key issues at this hearing. However, the key issues cannot be determined with any degree of accuracy due to the procedural rules being followed in this hearing.

Halton has received no material from any other parties participating in the hearing in respect to the information they propose to present to the Board or in respect to what witnesses will be called. The procedural rules dictate that witness statements must be issued some thirty days prior to a witness giving evidence. Given that it is anticipated Halton's evidence will continue for at least another two months, there is no requirement for any other party to provide this information to Halton, at this time.

Therefore, any attempt to ascertain what the key issues will be in this hearing can only be made by a review of the number and scope of questions posed by the parties to the hearing through interrogatories and by virtue of the cross-examination of Halton's witnesses by other parties.

It has become clear that:

- A. Hydrogeology and Design & Operations are viewed as the key issues by all other parties. This means that the Hydrogeology and Design & Operations evidence preparation, hearing attendance, time spent on answers to questions posed by parties and reviewers, and assistance to counsel has become much larger than ever anticipated and will continue to be the largest part of the hearing both in terms of evidence presented, time spent and cost to Halton.
- B. Hydrogeochemistry has become a key issue. Hydrogeochemistry was part of the background work completed by a sub-consultant for Trow Hydrology Consultants Ltd. in order for it to prepare its Hydrogeology technical report.

- C. The Plume Delineation Study commissioned by the Region from Gartner Lee Consultants Inc. MAY become an issue, and Gartner Lee may have to be called to give evidence in that regard. However, this can not be determined with any degree of certainty at this point.
- D. This hearing may continue until the end of March. However, with no material or information on what evidence and what witnesses will be called by other parties, this again cannot be predicted with any certainty.

Hearing Budget

During the summer adjournment, the Landfill Approvals Coordinator requested that all consultants provide up-to-date invoices to the end of June plus their best estimate of future costs to the end of the hearing. Again, it must be stated that even consultants' estimates of future costs cannot be predicted with any degree of certainty, in the absence of any definite knowledge by Halton legal counsel as to what evidence and what witnesses will be called in this hearing by other parties. It is, however, anticipated that most witnesses who have been called to give evidence in support of Halton's case, may be required to attend and assist legal counsel from time to time in the future as the other parties call evidence pertaining to that particular witness's expertise.

As a result of:

- (a) the evolution of issues at the Consolidated Hearing;
- (b) information and advice that came from legal counsel;
- (c) information and estimates received from the consultants;
- (d) the summer adjournment; and
- (e) the estimated length of this hearing being extended to March of 1988;

a revised Hearing Budget is proposed as set out in Appendix "A" to this report. Appendix "A" incorporates the budget variance information which has been regularly presented to Council and also details of the budget revisions now required. With respect to the budget variance, Appendix "A" notes that to August 31, 1987 \$852,000.00 or 48% of the originally approved budget had been expended. With respect to budget revisions \$325,000.00 of additional funds will be required which represents an 18% enhancement.

It will be noted that the original budget approved in November of 1986 was projected some six months in advance of the commencement of the hearing. It will also be noted that the budget estimates approved in the fall of 1986 anticipated a six month hearing with little to no adjournment involved.

The revised Hearing Budget reflects the importance of the Hydrogeology and Design & Operations issues, the new issues which have arisen during the course of the hearing, and reflects projection of costs to the end of March of 1988.

The revised new hearing budget will require a transfer of funds from the Landfill Reserve Fund of \$324,779.00. This transfer will result in a balance available in this Reserve of approximately \$345,000.00.

Also, Recommendation 1 b) is necessary since Council approval is required for use of contingency funds with the Environmental Assessment Hearings Budget.

Landfill Approvals Coordinator's Operating Budget

Council will recall that the Landfill Approvals Coordinator was appointed in April of 1986 and an Operating Budget was approved in May of 1986 and was intended to last until April 14, 1987.

That budget together with an additional salary allocation approved as part of the Hearing Budget has been used and has lasted to the end of August, 1987 some four months longer than originally anticipated. As of August 31, 1987, there remains in that budget some \$21,261.00.

It appears now that the Landfill Approvals Coordinator position should remain in place until at least April 30, 1988, allowing for the end of the hearing, time for a decision, appeal and wind up of project management.

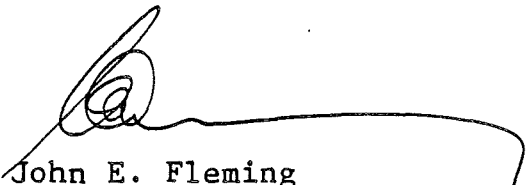
In that it is recommended that the Landfill Approvals Coordinator position be extended, it is appropriate at this point to approve a new Landfill Approvals Operating Budget. That budget has been prepared for the four months from September 1, 1987 to December 31, 1987, and for the four months from January 1, 1988 to April 30, 1988. This budget allows for the operating expenses required by the position, the Landfill Approvals Coordinator's salary and secretarial services.

The following appendices to this report relate to the Landfill Approvals Coordinator's Operating Budget.

- i Appendix "B" represents money spent and monies remaining in the Landfill Approvals Coordinator's Operating Budget as of August 31, 1987.
- ii Appendix "C" is the Landfill Approvals Coordinator's proposed Operating Budget from September 1, 1987 to December 31, 1987 and the Landfill Approvals Coordinator's proposed Operating Budget from January 1, 1988 to April 30, 1988.

Staff is seeking approval of the budget for the Landfill Approvals Coordinator through to the end of April 30, 1988, at which time it is anticipated that no further fund will be required. In this regard, Recommendation 3 provides that an approved transfer of \$47,484.00 be made from the Landfill Reserve to fund the anticipated requirement of \$13,839.00 for 1987 and the additional anticipated requirement of \$33,600.00 in 1988. These transfers would further reduce balances in the Landfill Reserve to \$293,600.00

Respectfully submitted,



John E. Fleming
Chief Administrative Officer
JEF:SDR:rad

APPENDIX "A"

HEARING BUDGET - REVISED SEPTEMBER 1987

CONSULTANTS	APPROVED CAPITAL BUDGET CAO 216/86 & FIN 165/86	SPENT (TO 1987/08/31)	PROJECTED TO COMPLETION	AVAILABLE OR (REQUIRED)	REVISED BUDGET
*A. Walker, Wright, Young	\$154,000	\$ 57,859	\$ 96,141	\$ 0	\$154,000
*B. Trow (Hydrogeology)	108,000	139,388	210,000	(241,388)	349,388
*C. Trow (Design & Operations)	94,000	84,064	50,000	(40,064)	134,064
Giffels	67,000	21,386	5,000	40,614	26,386
Ecological Services for Planning	22,000	18,789	20,000	(16,789)	38,789
*D. Pollutech	50,000	5,323	60,000	(56,726)	65,323
Cantox	0	6,403	35,000		41,403
Landplan - After Use	36,000	9,662	5,000	21,338	14,662
Landplan - Heritage	11,000	5,798	2,000	3,202	7,798
Landplan - Visual Assessment	56,000	23,812	7,000	25,188	30,812
Senes Consultants	44,000	28,996	5,000	10,004	33,996
J.E. Coulter & Associates	36,000	3,682	2,000	30,318	5,682
Bird & Hale	34,000	9,901	5,000	19,099	14,901
*E. F.H. Theakston	12,000	0	0	12,000	0
C.N. Watson & Associates	91,000	43,219	52,000	(4,219)	95,219
Myra Schiff & Associates	<u>30,000</u>	16,044	5,000	8,956	21,044
Museum of Indian Archaeology	6,000	5,112	1,000	(112)	6,112
*F. Osler, Hoskin & Harcourt	564,000	303,000	450,000	(189,000)	753,000

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EXPENDITURE	BUDGET	SPENT (TO 1987/08/31)	PROJECTED TO COMPLETION	AVAILABLE OR (REQUIRED)	REVISED BUDGET
*G. Gartner Lee	Ø	Ø	55,000	(55,000)	55,000
*H. Applied Groundwater Research	Ø	Ø	35,000	(35,000)	35,000
*I. Hall Rental	29,000	20,100	50,000	(41,100)	70,100
Printing/Photocopying	50,000	8,950	20,000	21,050	28,950
*J. Notices	20,000	39,536	Ø	(19,536)	39,536
Transcripts	184,000	614	50,000	133,386	50,614
Contingency	<u>89,000</u>	<u>Ø</u>	<u>40,000</u>	<u>49,000</u>	<u>40,000</u>
TOTALS	<u>**1,787,000</u>	<u>851,638</u>	<u>1,260,141</u>	<u>(324,779)</u>	<u>2,111,779</u>

* Letters refer to Budget Notes on next page.

** Excludes \$22,000 for Internal Staffing. (See Appendix "B").
(Total approved budget pursuant to CAO 216/86 & FIN 165/86 was \$1,809,000).

BUDGET NOTES

- A. Given the status of the hearing it is not possible to give a more accurate estimate of Walker, Wright, Young & Associates' hearing budget.
- B. Substantial costs incurred due to the length, nature and scope of interrogatories, meetings and discussions with reviewers, and due to the length of time spent, and projected, for the giving of evidence. Includes hydrogeology and hydrology (storm water management).
- C. Includes Site F Redesign as authorized by FIN 184/86.
- D. Cantox was a sub-consultant to Pollutech in the Landfill Technical Study and will be required to give evidence as a separate entity on the part of the study completed by Cantox. Costs of this consultant have been billed to Pollutech's budget to date.
- E. It was determined that this consultant was not required to give evidence.
- F. Originally budgeted for a 10 month period of full-time hearing preparation and attendance, now extended to an 18 month period.
- G. Potential preparation and attendance re: Plume Delineation Studies on existing Burlington landfill.
- H. Applied Groundwater Research Inc. was a sub-consultant to Trow Hydrology in respect to the hydrogeochemistry background for the Hydrogeology Technical Report. Now required to prepare, and present evidence and assist legal counsel, as a separate expert.
- I. Reflects extended hearing time and unanticipated cost of hearing supplies for Joint Board.
- J. Reflects requirement of Joint Board to issue two full and comprehensive notices of the Consolidated Hearing.

APPENDIX "B"

LANDFILL APPROVALS COORDINATOR
PROJECTED OPERATING BUDGET TO DECEMBER 31, 1987

Cost Centre 703 1300	LANDFILL APPROVALS COORDINATOR				
		1987 BUDGET (A)	EXPENDITURES (TO 1987/08/31)	REMAINING UNEXPANDED BALANCE	PROJECTED REQUIREMENT (SEPT-DEC)
<u>PERSONNEL SERVICES</u>					
TOTAL PERSONNEL SERVICES		49,300	35,517	13,783	30,800
<u>MATERIALS AND SUPPLIES</u>					
TOTAL MATERIALS AND SUPPLIES		1,400	621	779	400
<u>PURCHASED SERVICES - EXTERNAL</u>					
TOTAL PURCHASED SERVICES		7,500	2,128	5,372	3,100
<u>INTERDEPARTMENT CHARGES</u>					
TOTAL INTERDEPARTMENT CHARGES		800	514	286	600
<u>CAPITAL EXPENDITURES</u>					
TOTAL CAPITAL EXPENDITURES		<u>1,000</u>	<u>104</u>	<u>896</u>	<u>100</u>
TOTALS		<u>60,000</u>	<u>38,884</u>	<u>21,116</u>	<u>35,000</u>

(A) Includes \$10,942 carried forward from 1986, and;
\$22,000 salary allocation approved with hearing
budget pursuant to CAO 216/86 & FIN 165/86.

\$13,884
Required Budget
Enhancement

Summary: Incremental Operating Budget Requirement
to December 31, 1987 = \$13,884
Source of Financing: Environmental
Assessment Capital Project

APPENDIX "C"

LANDFILL APPROVALS COORDINATOR

PROJECTED OPERATING BUDGET

January 1, 1988 - April 30, 1988

1988 PROJECTED
OPERATING BUDGET

PERSONNEL SERVICES

TOTAL PERSONNEL SERVICES 29,400

MATERIALS AND SUPPLIES

TOTAL MATERIALS AND SUPPLIES 400

PURCHASED SERVICES - EXTERNAL

TOTAL PURCHASED SERVICES 3,400

INTERDEPARTMENT CHARGES

TOTAL INTERDEPARTMENT CHARGES 400

CAPITAL EXPENDITURES

TOTAL CAPITAL EXPENDITURES 0

TOTAL 33,600

