

IN THE MATTER OF Sections 2 and 3 and 6(3)
of the Consolidated Hearings Act, 1981, S.O.
1981, c.20;

- and -

IN THE MATTER OF Section 12(2) of the
Environmental Assessment Act, R.S.O. 1980,
c.140;

- and -

IN THE MATTER OF Sections 30, 35 and 38 of
the Environmental Protection Act, R.S.O.
1980, c.141, as amended;

- and -

IN THE MATTER OF Sections 24 and 61(2) of
the Ontario Water Resources Act, R.S.O. 1980,
c.361, as amended;

- and -

IN THE MATTER OF Section 28(3) of, and
Regulation 164 under, the Conservation
Authorities Act, R.S.O. 1980, c.85, as
amended;

- and -

IN THE MATTER OF Sections 22, 34(11), and
40(12) of the Planning Act, S.O. 1983, c.1,
as amended;

- and -

IN THE MATTER OF Sections 62, 64 and 66 of
the Ontario Municipal Board Act, R.S.O. 1980,
c.347, as amended;

- and -

IN THE MATTER OF Section 193(5) and
Paragraph 84 of Section 210 of the Municipal
Act, R.S.O. 1980, c. 302, as amended;

- and -

IN THE MATTER OF Sections 6, 7 and 8 of
the Expropriations Act, R.S.O. 1980, c. 148;

- and -

IN THE MATTER OF an undertaking of the
Regional Municipality of Halton to provide
facilities for the purpose of receiving,
dumping and disposing of waste as required by
section 137 of the REGIONAL MUNICIPALITY OF
HALTON ACT, R.S.O. 1980, c.436, as amended,
by acquiring the land for, constructing,
operating and maintaining a landfill to
contain 7.96 million cubic metres of waste in
the Regional Municipality of Halton

- and -

IN THE MATTER OF an Order-in-Council
O.C. 332/87 authorizing a funding panel
established by the Environmental Assessment
Board to distribute certain funds among
eligible citizen group intervenors to the
hearing with respect to the above
application.

APPLICATION FOR FUNDING ON BEHALF OF
WEST BURLINGTON CITIZENS GROUP

1. Name of Individual or Organization:
West Burlington Citizens Group
(See TAB 1 for brief description)
2. Address:
c/o Mrs. June Anderson
President
West Burlington Citizens Group
685 Inverness Avenue
Burlington, Ontario
L7T 3S9
3. Telephone Number: (416) 634-0411 (Home)
(416) 528-2511 (Work)

4. n/a

5. If an organization or group, please list the names and addresses of the members of the Board of Directors or the Executives and identify the person who is to receive the funding on behalf of the organization or group and who will be responsible for submission of the final report to the Funding Panel.

EXECUTIVE OFFICERS FOR WEST BURLINGTON CITIZENS GROUP

Past President	Ron Luxon 111 Lynn Court Burlington, Ontario L7T 1B3 (416) 634-8310
President	June Anderson 685 Inverness Avenue Burlington, Ontario L7T 3S9 (416) 634-0411 (Home) (416) 528-2511 (Work)
Vice-President	Dorothy Pocock 534 Ann Avenue Burlington, Ontario L7T 2S6 (416) 632-5962
Secretary	June McCooey 471 Plains Rd. West Burlington, Ontario L7H 1H1 (416) 529-4363
Treasurer	Ron Fast Apt. 1107 20 North Shore Blvd. West L7T 1A1 (416) 632-5845 (Home) (416) 632-3553 (Work)
Publicity	Mary Jane Boelhouwer 925 Park Avenue West L7T 1N8 (416) 634-9395
Chairman of Solid Waste Management Committee	Dorothy Pocock 534 Ann Avenue Burlington, Ontario L7T 2S6 (416) 632-5962

Directors at Large Alex Adsett
 239 Oaklands Park Court
 Burlington, Ontario
 (416) 632-2624

Tony O'Connor
 560 Stillwater Road
 Burlington, Ontario
 L7T 3M7
 (416) 632-7429

Art Zimmerman
 1040 Unsworth Avenue
 Burlington, Ontario
 L7T 1R7
 (416) 527-2096

Funds should be made payable to the Canadian Environmental Law Association in trust.

Toby Vigod, Counsel
 Canadian Environmental Law Association
 243 Queen Street West
 Toronto, Ontario
 M5V 1Z4
 (416) 977-2410

will be responsible for the submission of the final report to the Funding Panel.

6. Reasons for requesting funding. Please explain how you or your organization satisfy the funding criteria set out by the Order in Council.

(a) Whether there is a clear ascertainable interest to be represented and a specific purpose for the assistance:

The West Burlington Citizens Group (WBCG) has, since 1983, established themselves as interested in waste management issues in the Region. The group has been concerned about the proposal for a regional landfill at Site F since 1983. The WBCG is concerned about locating another landfill on complex geology with a stream system passing through their community and ultimately draining to Burlington Bay. They are concerned about leachate springs and impacts on surface and groundwater. The group also is concerned about locating a site adjacent to an environmentally sensitive area. Other concerns include noise, air quality, traffic and the social impact of West Burlington becoming a dumping ground for the Region's waste.

The group will be specifically requesting funds to retain experts in the areas of hydrogeology, social impact and the biophysical impact of the site.

(b) Whether a separate and adequate representation of a particular interest would assist and substantially contribute to the hearing:

The WBCG has always represented itself as an independent organization throughout the environmental assessment process to date and through their involvement with waste management issues in the Region. The members of the WBCG will be affected directly if the proposed Site F is approved. They also have first-hand knowledge of the site, the creeks that flow from the site through their backyards, traffic, noise and other concerns that will be raised throughout the hearing. They have also taken an active role in monitoring the two existing sites adjacent to Site F and will be able to testify as to relevant problems with these sites. At the Environmental Protection Act hearing in 1984, the WBCG opposed the proposed expansion of the existing Burlington landfill. The City of Burlington changed its position just prior to the commencement of the hearing, leaving the WBCG as the only party in opposition. For that reason, the group does not feel they can totally rely on the City to present their point of view. The WBCG believes that the group must have separate representation and retain experts in the key areas of concern that will be dealt with in the upcoming hearing.

(c) Whether there is a need, and whether the group has tried to raise funds through other means:

The WBCG does not have the resources to attend a possible 100-day Joint Board hearing. Many of the members of the group are older people who are retired and living on a limited income. The Canadian Environmental Law Association (CELA) has represented the WBCG since 1984. CELA, which is funded by the Ontario Legal Aid Plan, provides legal services in the environmental law area to individuals and groups who would not otherwise have access to legal counsel. CELA, however, does not cover disbursements and expert witness fees. The WBCG would not have sufficient resources to appear at this hearing if funds were not made available for experts by the Government and this Funding Panel.

However, the WBCG has an active fund-raising committee and has been partially successful in its quest for funds. To date, the group has obtained a grant from the City of Burlington for \$12,000 to help prepare its case (see TAB 2 for copy of application to the City of Burlington and resolution approving the grant.) The group has \$9,165.25 remaining from that grant. The WBCG sends the city receipts for expenses incurred and receives the money back from the city.

The WBCG applied, unsuccessfully, for a grant of \$15,000 from the Region of Halton (see TAB 3 for a copy of the application to the Region of Halton and resolution refusing the group's request.)

The group also made its initial request to the Minister of the Environment for intervenor funding on April 10, 1986 when the group filed its submission on Halton's environmental assessment and the Ministerial review.

The group has also received the assistance of the Canadian Environmental Defence Fund (CEDF) in raising funds. While the CEDF has not funded the group directly, people contributing to the CEDF can have their donations ear-marked to the WBCG and can receive a tax receipt.

See TAB 4 for a copy of the WBCG's Treasurer's Report of February 2, 1987. As of that date, the group had \$10,950.37 in its bank account.

See TAB 5 and TAB 6 for examples of fundraising activities.

(d) Whether there is demonstrated a delineated purpose for expenditure of funds:

See budget, item 7 below.

(e) Whether there has been a coordinated effort to bring a number of interests within one representative group:

The WBCG has encouraged residents of West Burlington and neighbouring areas to join their organization and has been largely successful in their membership campaigns. The group continues to liaise with other groups who are involved in the landfill issue.

(f) Whether the particular group has established a record of concern and a demonstrated commitment in a responsible way to that concern:

The WBCG has been actively involved in waste management issues in the Region of Halton since 1983. In January 1984, the group retained CELA to represent them at the Environmental Protection Act hearing into the expansion of the existing Burlington landfill site which is located next to the proposed Site F. That hearing took place in June 1984. Since that time the group has played an active role in monitoring both the existing landfill and the leaking Bayview site which is located on the other site of the proposed Site F. The WBCG has been actively involved in the environmental assessment process. They have made numerous written and oral presentations to the Region of Halton, the City of Burlington and the Region's consultants. The group filed a written submission in response to the Ministerial review of the environmental assessment issued last April. The group has also made every effort to keep the public involved through a series of public meetings and interviews with the media.

See TAB 7 for a list of the WBCG's major activities from 1983 to the present.

See TAB 8 for a list of dates of submissions to City of Burlington, Region of Halton and the Province of Ontario on landfill related issues.

(g) Whether the group has in place the appropriate mechanisms to ensure accountability to the government and the community:

We suggest that any funds made available by the Funding Panel be made payable to CELA in trust. We would account for all expenditures in the normal course as is appropriate to any client trust account.

As far as the WBCG is concerned, they have a treasurer who keeps track of the expenditures of the group. The group's books are audited once a year. The group has an active executive and a fundraising committee. The membership of the group is kept apprised of developments through public meetings and events.

(h) n/a

7. Proposed Budget

EXPERT WITNESSES

- To retaining the services of Mr. Paul Bowen, hydrogeologist, to comment on the hydrogeology reports prepared by the Region of Halton, City of Burlington, Town of Milton and Milton ratepayers, help with cross-examination, prepare a report and witness statement, attend at the hearing and give testimony \$20,000.00
 - To retaining the services of Mr. Reg Lang, Professor in Environmental Studies, to comment on the social impact studies prepared by the Region of Halton, to assist with cross-examination, prepare a report and witness statement, attend at the hearing and give testimony \$ 7,000.00
 - To retaining the services of Mr. Steven Varga, botanist to evaluate the biophysical reports prepared by the Region of Halton and others, and to assist in cross-examination. We may retain Mr. Varga or another botanist to testify \$ 5,000.00
- SUB TOTAL \$32,000.00

DISBURSEMENTS

- To telephone calls	\$ 1,000.00
- to photocopying, delivery and postage	\$ 2,000.00
- To travel, meals (based on 100 days of hearing)	\$ 2,200.00
- Miscellaneous	<u>\$ 1,000.00</u>
SUB TOTAL	<u>\$ 6,200.00</u>
CONTINGENCY: to retain additional experts	\$ 3,000.00
TO LEGAL FEES *(\$438.00 per day) 50 preparation, 100 hearing days	\$65,700.00
TOTAL ESTIMATED BUDGET	<u>\$106,900.00</u>
AMOUNT REMAINING IN CITY OF BURLINGTON GRANT	\$ 9,165.25
AMOUNT IN CELA TRUST	\$ 1,117.13
AMOUNT HELD BY WBCG	<u>\$ 10,950.37</u>
TOTAL	<u>\$ 20,025.62</u>

*CELA has requested and received fees in the past on a number of cases. As well, pursuant to the Legal Aid Act, we are obliged to request legal fees in all proceedings. These fees are returned to the Legal Aid Plan. CELA will ask for legal fees as part of its application for costs at the close of the hearing.

NOTE: An amount for transcripts has not been listed here. It is estimated the cost for transcripts for a 100 day hearing will be \$10,000.00. We were hopeful an arrangement can be reached with the Region of Halton.

8. Expert Witnesses

The WBCG at the present time intends to call experts in the areas of hydrogeology, botany and social impact. The major issue at this hearing will be the hydrogeology of the proposed sites and the ability of the landfills to be engineered to contain leachate on site. Our witness in this area will be Paul Bowen (see curriculum vitae attached at TAB 9). Social impact is a major concern to our clients. At this point in time we intend to call Mr. Reg Lang (see curriculum vitae attached at TAB 10). Finally, we have retained Mr. Steven Varga to review the biophysical reports filed by the Region (see curriculum vitae attached at TAB 11). We may call Mr. Varga or another witness in this area.

WEST BURLINGTON CITIZENS GROUP

The original citizens' group was established, as nearly as can be determined, in the early 1950s in what was formerly the Police Village of Aldershot. At that time there were a number of homes built so that today, in many parts of the area, there are homes 35-40 years old of an unpretentious nature with a large population of older people who are retired and living on a limited income.

The citizens' group has undergone several name changes throughout the years as both the membership and the boundaries changed. Membership fluctuated according to the issues, probably never surpassing about 60 members.

Membership today is probably about 600 members and this is due to the fact that when we have received a donation toward the landfill site issue, we have registered them as members. In addition, those from outside the area has been classed as associate members. The core of the group probably is at about 100 members with a small executive of about 6-8 which keep the group operating. Until the WBCG became involved in the landfill issue, the group had never been more than a small number of people concerned over local issues, such as road widenings, etc. that arise from time to time. Total revenue was usually about \$100 with membership selling for \$2.00.

Since 1983, the group as found itself involved in a situation whereby they were forced to become involved in full citizen participation with public presentations, fundraising, etc.

West Burlington Citizens' Group

J. M. Anderson
685 Inverness Ave.
Burlington, Ontario

January 13, 1986

The Corporation of the
City of Burlington
City Hall
426 Brant Street
BURLINGTON, Ontario

To Whom It May Concern:

The enclosed "Application For Grant" is submitted on behalf of the West Burlington Citizens' Group for consideration at your Committee Meeting on February 1st., 1986. In accordance with instructions on the form we have also included our last audited Financial Statement. To date we have been an unfunded, non-profit, volunteer community group, therefore no budgets are required or set.

We require \$12,000. for the preliminary hearings scheduled in april in order to oppose the Halton Region's selection of Escarpment Site F in Aldershot for their future landfill requirements.

It is our belief that strong citizen involvement and representation at these hearings is vitally important to the successful outcome of this issue, and would serve to support and complement the Official City's representation in a very real way.

This grant is needed to meet all expenses, retainer fees and financial commitments necessary to ensure the continuance of the professional and legal services required to represent us throughout the preliminary hearings. The resources of the West Burlington Citizens' Group are all but depleted partially due to our involvement and expenses related to the past Expansion Hearings, and partially as a result of our activity to date on the new landfill site issue i.e. Public awareness campaign to increase attendance at both city and Regional Public Meetings, partial payment for further legal advice and representation, and retainer fees for consultants reports.

We have not been an organization geared to raise the large sums of money required for representation at the preliminary and final hearings, and while we have had some measure of success in raising money in the past the funds raised are now gone. We are however, starting to move in this area by putting together a fund raising appeal that will generate sufficient resources to support our efforts and meet our long term needs.

Respectfully submitted
WEST BURLINGTON CITIZENS' GROUP

President: June Anderson

- P R E S E N T A T I O N -

WEST BURLINGTON CITIZENS' GROUP

SATURDAY - FEBRUARY 1, 1986

LADIES AND GENTLEMEN

SINCE 1982 THE WEST BURLINGTON CITIZENS' GROUP HAS BECOME DEEPLY INVOLVED IN WHAT HAS NOW BECOME ONE OF THE MAJOR ENVIRONMENTAL ISSUES THROUGHOUT THE CITY OF BURLINGTON.

WHAT STARTED OUT AS A PRIMARY CONCERN OF ALDERSHOT RESIDENTS REGARDING THE THREATENING ENVIRONMENTAL DANGERS TO THE COMMUNITY, HAS MUSHROOMED INTO WHAT IS NOW PROVEN TO BE ONE OF THE MOST CRITICAL ENVIRONMENTAL HAZARDS THREATENING EVERY CITIZEN THAT RESIDES IN OUR FAIR CITY. I REFER, OF COURSE, TO THE REGIONAL GARBAGE DUMP SITES GEOGRAPHICALLY LOCATED IN ALDERSHOT.

WE HAVE ADDRESSED AND APPROACHED THIS PROBLEM POSITIVELY AND FAIRLY FROM A STANDPOINT OF THE BEST INTERESTS OF THE ALDERSHOT RESIDENTS AND THE CITY OF BURLINGTON AS A WHOLE. OUR PREMISE HAS ALWAYS BEEN "IF YOU ARE NOT PART OF THE SOLUTION, YOU ARE PART OF THE PROBLEM", AND HAVE ACTED ACCORDINGLY.

OUR MAIN THRUST HAS FOLLOWED THE THREE GARBAGE DISPOSAL SITES WHICH HAVE A DEFINITE INTER-RELATIONSHIP TO THE SITUATION AS A WHOLE.

1. BAYVIEW, THE OLD BURLINGTON DUMP HARBOURS EXPLOSIVELY DANGEROUS LEACHATE SPRINGS AND UNDERGROUND RUN-OFFS THAT FIND THEIR WAY INTO THE NATURAL

WATERSHED SYSTEM, ULTIMATELY DIRECTING ITS PATHS TO THE LAKE AND OUR DRINKING WATER.

EXHIBIT POSTER - DID YOU KNOW THAT BURLINGTON IS ONE OF ONTARIO'S TOXIC HOT SPOTS? HERE IS THE PROOF--THIS POSTER WAS PUBLISHED BY POLLUTION PROBE, SHOWING WHERE THESE SITES ARE LOCATED.

POINTING TO SPOT - HERE IS BURLINGTON, RIGHT IN THERE WITH THE BEST OF THEM.

2. HALTON REGION HAD HOPED TWO YEARS AGO THAT THERE WOULD BE NO EXPANSION HEARING FOR THE PRESENT SITE. HOWEVER THE WEST BURLINGTON CITIZENS' GROUP INSISTED THAT THERE BE A HEARING DUE TO THEIR CONCERN OVER MANAGEMENT OF THE SITE, AND THEIR BELIEF THAT THE SITE SHOULD NEVER HAVE BEEN CHOSEN IN THE FIRST PLACE.

WE BECAME THE OFFICIAL OPPONENTS AT THAT HEARING, WHERE, ON ALL POINTS, OUR WORST FEARS WERE CONFIRMED. AS A RESULT SOME IMPORTANT POINTS WERE ESTABLISHED AND STRINGENT RULES WERE SET DOWN BY THE MINISTRY OF THE ENVIRONMENT.

WE WANT TO IMPRESS UPON YOU HOW STRONGLY AND UTTERLY OPPOSED WE ARE TO THE SELECTION OF THE ESCARPMENT SITE F AS THE PROPOSED SITE, IT IS TOTALLY UNSUITABLE FOR THIS PURPOSE. IT IS OUR BELIEF THAT ITS SELECTION WAS PRE-ORDAINED AND NOT BASED ON CONCRETE EVIDENCE. LOCAL CITIZENS, MANY WITH

TECHNICAL EXPERTISE, CRITIQUED THE ENVIRONMENTAL ASSESSMENT DOCUMENTS AND FOUND THEM TOTALLY LACKING IN SUBSTANCE TO BACK UP THE ARGUMENT THAT IT BE THE PREFERRED SITE. IN FACT, WE HIRED A HYDROGEOLOGIST TO PROVIDE US WITH AN INDEPENDENT REVIEW--THE CONCLUSION--SITE F SHOULD NEVER HAVE BEEN CHOSEN.

OVER THE PAST TWO YEARS THE CITIZEN'S GROUP HAS BEEN SUCCESSFUL IN RAISING ALMOST \$9,000., WHICH HAS COVERED CONSULTANT'S FEES, LEGAL EXPENSES, AND THE PRINTING AND DISTRIBUTION OF FLYERS FOR ALL THE PUBLICLY HELD MEETINGS.

THESE EXPENSES HAVE GRADUALLY USED OUR CASH RESERVES UNTIL THE FUNDS ARE ALL BUT DEPLETED.

WE ARE NOW FACED WITH BOTH A PRELIMINARY AND A FULL HEARING WHICH IS GOING TO BE COSTLY. WE KNOW IT IS CRITICAL THAT CITIZENS BE INDEPENDENTLY REPRESENTED AT THESE HEARINGS AND FEEL IT IMPERATIVE THAT WE BE THERE IN FULL FORCE. OUR EXPERIENCE AT THE ENVIRONMENTAL PROTECTION ACT HEARING CLEARLY INDICATED THAT BOARD MEMBERS EXPECT CITIZENS TO BE A VITAL PART OF THE HEARINGS, IN FACT, THEY WOULD, WITHOUT DOUBT, QUESTION OUR ABSENCE AFTER OUR PREVIOUS INVOLVEMENT.

THIS HAS A TWO-FOLD EFFECT, AS INDEPENDENT REPRESENTATION FROM THE COMMUNITY WOULD BOTH SUPPORT AND COMPLEMENT THE STAND TAKEN BY THE CITY.

WE HAVE ESTABLISHED A FUND RAISING COMMITTEE WHO ARE TAKING UP THE CHALLENGE OF RAISING MONEY IN ORDER TO ACHIEVE OUR LONG TERM GOALS. IN ADDITION, IF THE HEARING IS HELD UNDER THE CONSOLIDATED HEARING ACT WHICH PROVIDES PARTIAL FUNDING FOR CITIZENS GROUPS, WE INTEND TO APPLY, HOWEVER THESE GRANTS

ARE NOT GUARANTEED AND ARE PAID ONLY AT THE CONCLUSION OF THE HEARINGS.

IN OUR APPLICATION WE REQUESTED \$12,000 IN ORDER TO ENSURE THAT WE HAVE THE CONTINUED PROFESSIONAL AND LEGAL REPRESENTATION NECESSARY FOR OUR PARTICIPATION IN THE HEARINGS. THIS WOULD HELP COVER THE COSTS FOR OUR IMMEDIATE NEEDS AND PROVIDE RETAINERS REQUIRED FOR THE HYDROGEOLOGIST, AND LEGAL REPRESENTATION, THEREBY ALLOWING US LEAD TIME TO PREPARE FOR THE TREMENDOUS COSTS OF THE FULL HEARING WHICH WE ANTICIPATE WOULD REACH \$75,000. OR MORE BASED ON:

- A. INFORMATION GIVEN TO US BY THE CANADIAN ENVIRONMENTAL LAW ASSOCIATION, AND OUR HYDROGEOLOGIST.
- B. OUR OWN EXPERIENCE AS A RESULT OF THE LAST HEARING.
- C. THE EXPERIENCE OF OTHER GROUPS HAVING BEEN INVOLVED IN THE HEARING PROCESS, e.g. THE RED HILL CREEK GROUP

ANOTHER MAJOR CONSIDERATION IS THE PROBABLE LENGTH OF THE HEARINGS AND WHERE THEY ARE TO BE HELD.

WE ARE APPEALING TO THE CITY FOR HELP BECAUSE IT IS CLEAR THAT CITIZENS ARE AN IMPORTANT PART OF THE ENVIRONMENTAL HEARING PROCESS. THIS IS BEING RECOGNIZED AS FUNDING BECOMES AVAILABLE TO CITIZENS GROUPS ON A VOLUNTARY BASIS, FOR EXAMPLE, THE ONTARIO WASTE MANAGEMENT CORPORATION IS MAKING FUNDS AVAILABLE FOR CITIZEN PARTICIPATION, AND PEEL REGION HAS ASSIGNED \$50,000. TO RESIDENTS LOCATED NEAR THE SEVEN POTENTIAL SITES FOR THEIR NEW LANDFILL

FACILITIES NEARLY TEN YEARS DOWN THE ROAD.

ALTHOUGH INITIALLY THE MATTER MAY HAVE BEEN REGARDED BY MANY TO HAVE BEEN AN ALDERSHOT PROBLEM, THIS IS NO LONGER TRUE, IT IS A BURLINGTON PROBLEM--DRINKING WATER AFFECTS US ALL, AND THIS WITHOUT A DOUBT WOULD BE THE ULTIMATE PRICE WE HAVE TO PAY.

WE NEED YOUR ASSISTANCE TO HELP US OVER THE HURDLE. WE HAVE WORKED HARD AND HAVE AN IMPORTANT TASK TO PERFORM THAT WILL BE OF IMMENSE BENEFIT TO ALL OF BURLINGTON.



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
760-04 & 445-01
File No.:

February 25, 1986

Ms. June Anderson, President
West Burlington Citizens' Group
685 Inverness Avenue
Burlington, Ontario
L7T 3S9

Dear Ms. Anderson:

SUBJECT: Request for Grant by the West Burlington Citizens' Group

Please be advised that the Council of the Corporation of the City of Burlington at its regular meeting held on February 24, 1986, enacted the following resolution being Item No. EM-12-86:

THAT the Corporation of the City of Burlington grant to the West Burlington Citizens' Group an allowance of up to \$12,000 to cover professional retainers, fees and disbursements incurred in preparing and delivering its case at the forthcoming Environmental Assessment Act Hearing into the Region of Halton's proposed permanent landfill site(s);

and that grant payments be made from Account 770-0144-3610 in the amounts of invoices for expenses incurred submitted to the Director of Finance.:

A member of our Finance Department will be in contact with you in the near future in reference to this matter.

Yours truly,

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

KM/dt

c.c. - Mr. Sid Chumley, 595 Kingswood Place, Burlington, L7T 2W6
- Mr. M. Boggs, Chief Administrative Officer
- Mr. A. Ramsay, Environmental Management Co-ordinator

1149c

West Burlington Citizens' Group

J. M. Anderson
685 Inverness Ave.
Burlington, Ontario

January 31, 1986

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

To Whom It May Concern:

The enclosed "Grant Application" form is submitted on behalf of the West Burlington Citizens' Group for consideration at your Committee Meeting. In accordance with instructions on the form we have also included our last audited Financial Statement. To date we have been an unfunded, non-profit, volunteer community group, therefore no budgets are required or set.

The \$15,000. requested will enable us to meet our expenses, retainer fees and financial commitments which will ensure the continuance of the professional and legal services required to maintain independent representation throughout the preliminary and final hearings in connection with Halton Region's proposed landfill site.

The resources of the West Burlington Citizens' Group are all but depleted partially due to our involvement and expenses related to the past Expansion Hearings, and partially as a result of our activity to date on the new landfill site issue i.e. Public awareness campaign to increase attendance at both city and Regional Public Meetings, partial payment for further legal advice and representation, and retainer fees for consultants' reports.

We have not been an organization geared to raise the large sums of money required for representation at the preliminary and final hearings, and while we have had some measure of success in raising money in the past the funds raised are now gone. We are however, starting to move in this direction and are putting together a fund raising appeal that will generate sufficient resources to support our efforts and meet our long term needs.

It is our belief that strong citizen involvement and representation at these hearings is vitally important in order to achieve a decision that will be mutually satisfactory to all concerned, in fact, our absence at such a hearing would undoubtedly be questioned, due to our involvement in the Expansion Hearing. It would also have a beneficial effect in helping to regain citizen confidence with respect to Regional activities in the City of Burlington.

Respectfully submitted
WEST BURLINGTON CITIZENS' GROUP

President: June Anderson

PRESENTATION TO HALTON REGIONAL COUNCIL
BY
THE WEST BURLINGTON CITIZENS GROUP - MAY 7, 1986

Thank you for the opportunity of appearing before you in regard to the West Burlington Citizens Group's request for funding assistance with respect to the Environmental Assessment Hearing slated for later this year. As you are aware, the regional solicitor recommended that funding not be approved. However, at the Solid Waste Management Committee meeting on April 28th, it was agreed by all that there are no legal restrictions and that the Region may grant funds if it so desires. At that time, there were several concerns expressed and I would like to take a moment to comment on them.

One thought was that the Region would be setting a precedent - true - it may set a precedent with the Region but, as you also know, other municipalities have already provided funding as part of the public participation process. Let us examine an excerpt from the General Guidelines for the Preparation of Environmental Assessments:

" During the planning process....the proponent is strongly advised to involve the public....It can be of great assistance to the proponent in preparing the environmental assessment document, and in facilitating its passage through the review process and public hearings..of the Environmental Assessment Board. The proponent is likely to be on firmer ground if evidence can be presented of previous consultation with those likely to be affected by the undertaking."

This clearly indicates the importance of public consultation. However,

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listen to a quote from the West Burlington Citizens Group's submission to the Minister of the Environment regarding this aspect of the Region's Environmental Assessment document:

" ...it is noted that the Tremaine-Britannia Interest Group raised the issue that while the Region acknowledged the input from public and interest groups, these concerns were not always addressed during the study process. The West Burlington Citizens Group has also raised this concern many times during the past three years...The group maintains that the Region's consultant did not reply satisfactorily to the concerns raised by it and the general characterization of the consultant's attitude was one of intransigence.....The West Burlington Citizens Group contends that consultation and participation must mean more than an opportunity to have input into the process, but should involve a meaningful dialogue where concerns are dealt with in a substantive and timely fashion. "

Therefore, as the Region enters the hearing process it does not have a good track record with regard to public participation. The provision of funding to the West Burlington Citizens Group and to any other group involved in this hearing would indicate that the Region really cares and is not just paying lip service to this important item.

Another concern expressed was that the cost of providing the group with funds would add to the tax burden. While this attitude is to be commended as nobody wants to see their taxes going up, it hardly seems appropriate at this time in view of the money that has been already spent, and will continue to be spent, before a new landfill site is in place. Without any additional outlay to us, taxpayers are looking at a 5 million dollar

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3.....

price tag - that's where you might see taxpayer revolt!

A third point was that because the City of Burlington and the West Burlington Citizens Group were both opposing the escarpment site "F" proposal, there was basically no difference in their stand and therefore we could be represented by the City. While it is true that there is agreement on our opposition, both parties will approach the hearing as separate entities, a fact that is borne out by the City's grant to us in order for us to appear independently.

The idea of intervenor funding is a relatively new concept in Ontario and its role in the environmental assessment process is currently under consideration by the provincial government. In addition, a newly formed organization "The Canadian Environmental Defence Fund" has been created in an attempt to help redress the unfair odds of the David and Goliath situation in which citizens' groups find themselves when they oppose large government agencies and corporations. However, funding from such as these may or may not be available in time for the hearing.

Although there is a likelihood that the original motion will be passed here today, I would like to think that one of you might make the following:

.....4

WHEREAS The Environmental Assessment process
 includes citizen participation as
 as part of the process, and,

WHEREAS the hearing is part of the above and
 therefore citizen participation should
 be a part of it, and,

WHEREAS there is no intervenor funding in
 place at this time,

It is hereby recommended that Regional Council grant
a maximum of \$15,000 each to the West Burlington
Citizens Group and to any other group that is
concerned about any other designated site and who
wishes to be a part of the hearing process.

Denied funds, group will appeal

citizen groups commenting on re-

regional plans), she said. "They may say it's

They may say it's a precedent but it's not, it's only a precedent for Halton. Peel Region has already made \$50,000 available to seven groups for hydrogeological studies at seven possible landfill sites there."

The Citizens' Group has already persuaded the Canadian Environmental Law Association to represent it at no charge at the hearing but accommodation and travel must still be paid for.

Dorothy Pocock, vice-president of the citizen's group, said yesterday she will be back seeking a \$15,000 regional grant when Halton council meets May 7.

The region's solid waste management committee has already refused the group \$15,000 in so-called intervenor funding — a move Mrs. Pocock said didn't surprise the citizens' group.

"The regional councillors are very much afraid of setting this precedent (of awarding money to

Two strikes against citizens' group

By JEFF McFADDEN

So far the West Burlington Citizens' Group has two strikes against it, in its effort to get \$15,000 from Hallon to help fight a possible new dump for Aldershot.

The first strike against what is called 'intervenor funding' came with a no vote, Monday, by the Region's solid waste management committee. The second strike was delivered by the planning and public works committee, Wednesday.

The group's last chance will come at the council meeting, May 7. A no there will mean the group strikes out. Intervenor funding is usually a grant from a government, or agency, which enables a group to present its views at hearings. Without this money, many groups could not afford to be heard, in the face of better funded opponents.

In this case, the West Burlington

Group wants funding to help finance this case during the upcoming environmental assessment hearing. The hearing will decide where Halton's new landfill will be located. The two sites proposed by the Region are in Burlington and Milton. The group, which needs about \$100,000 for its fight, has already received a \$12,000 grant from the City of Burlington. It also has legal counsel from the Canadian Environmental Law Association, on an expenses-only basis. The \$100,000 is needed to pay the expenses of the association and to retain a hydrogeologist and other experts, if needed. Towards that end, they are preparing a fund-raising drive. So far the group's only champion at the regional level has been Aldershot Councillor Walter Mulkeewich. However, his proposal that groups

reimbursed for expenses, up to \$15,000 each, has been voted down at both the solid waste and planning and public works committees. Arguments against intervenor funding have ranged from setting a dangerous precedent, to the fact the group is already represented through the political process. Liz Behrens, of Oakville, worries the Province would forever depend on the Region to provide intervenor funding, if Halton did so this time. Halton Hills' Pam Sheldon told the planning and public works committee that by giving the West Burlington Group a grant, the Region would be financing both sides of the argument, thereby wasting taxpayers' money. She also said people elect politicians to do their talking for them on such issues.



THE REGIONAL MUNICIPALITY OF HALTON

OFFICE OF THE CHIEF
ADMINISTRATIVE
OFFICER

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

1986 05 20

Ms. June Anderson, President
West Burlington Citizens Group
685 Inverness Avenue
Burlington, Ontario
L7T 3S9

Dear Ms. Anderson;

Regional Council at its meeting held May 7, 1986, passed the following Resolution as it relates to the grant request of the West Burlington Citizens Group for intervenor funding.

At its meeting the following Resolution was passed:

"THAT Report RS 20/86 concerning the Legal background and status of the issue of intervenor funding in the Province of Ontario be received for information.

AND THAT the grant request by the West Burlington Citizens Group for "intervenor funding" with respect to the Region's Landfill Approvals Process not be approved at this time".

Yours very truly

David J. Varley
David J. Varley
Regional Clerk

DJV:sm

c.c. K.S. Anderson
Regional Solicitor

WEST BURLINGTON CITIZENS GROUP
TREASURER'S REPORT
FEBRUARY 2, 1987

Prepared By	Initials	Date
Approved By		

CASH BALANCE at last report
Sept. 29, 1986

8409.27

RECEIVED:

C. E. D. Fund

5092.00

+ 795

Proceeds of bridge party

190.50

Bank interest

217.76

5500.26

DISBURSED

Fund raising - general mailing

1007.92

Garbage committee expenses

190.12

Sundry expenses

479.2

Bank charges

820

1254.16

CASH BALANCE DECEMBER 8, 1986

12655.37

+ 795.00
- 1000.00

General Fund balance

1506.66

Dump Fund balance

8355.19

Fund-raising Fund

2793.52

- 1500.00

12655.37

City of Burlington Defence
Commitment balance

9165.25

Commitment to Paul Bowen

10000.00

Balance in trust at COLA

117.13

+ 1000.00

CHANGES AS OF FEBRUARY 18, 1987

Cash balance	\$12,655.37
Donations	+ <u>795.00</u>
	\$13,450.37
Less CELA retainer	1,000.00
Less printer's bill for 12,000 flyers	<u>1,500.00</u>
	\$10,950.37

West Burlington Citizens' Group

P.O. Box 38, Burlington, Ontario L7R 3X8
Telephone 634-0411

Dear Burlington Neighbour:

The Region of Halton is seeking approval to landfill 11.3 million cubic yards of solid waste. This will require an area twice as large as the current area in use. This will service twenty years of garbage.

Two locations are preferred sites; "Site D" in the Town of Milton or "Site F" located on the edge of the escarpment in Aldershot in Burlington.

The West Burlington Citizens' Group has been a consistent advocate for a sane approach to Halton garbage disposal problems. We oppose the selection of Site F for clear and supportable reasons:

Site F is hydrogeologically unsuitable (and therefore unsafe) for use as a landfill;

Site F may not have sufficient capacity to accommodate the forecast garbage disposal requirement;

Site F is the highest cost alternative.

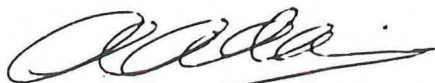
Halton's proposal is entering a new and critical phase. A hearing is likely to be called in the fall.

We hope to continue to represent you at any hearings. We believe that strong and constructive representation by private citizens will be a critical element in achieving a fair result. The City of Burlington, which also opposes selection of Site F, has endorsed our involvement with a grant of \$12,000.

Participation in all hearings will be very expensive. Effective representation demands expert witnesses. Costs range from \$400 to \$1,000 per day for each witness and the hearings are expected to last six months or longer. This representation is projected to cost in excess of \$100,000. The Hearing Board's decision will impact all of us, our children, our grandchildren.

Now is the time to get involved. The West Burlington Citizens' Group needs your financial support to continue to seek a sane solution to the garbage problem.

We have obtained the support of the Canadian Environmental Defence Fund. They will receive your donation and issue a receipt for income tax. Please give generously. Your support is needed to secure experts to speak on your behalf. Please send your cheque in the attached envelope.



Fund Raising Committee
West Burlington Citizens' Group

SITE 'F' IS WRONG

EXECUTIVE
OFFICERS

June
Anderson

Dorothy
Brocock

June
McCooey

Ron Fast

Mary Jane
Boelhower

Steve
Sawell

Alex Adsett

Tony
Connor

Ant
Zimmerman

June
McDonnell

FUNDRAISING
COMMITTEE

A. Sandy
Adam

Reg Bullock

Jim Coppack

Ken Fast

Richard C.
Harris

Fred Hill

Paul Pirie

Leslie
Sawell

CANADIAN ENVIRONMENTAL DEFENCE FUND

Honourary Board of Directors

June Callwood
Norman Cousins
Jack McClelland
Farley Mowat
David Suzuki

Board of Directors

President
Roger Cotton
McCarthy & McCarthy's

Secretary/Treasurer
Sarah Miller
Canadian Environmental Law Assoc.

Wendy Bauer
West Scar. Environmental Committee

Joe Castrilli
Barrister at Law

Robert Fishlock
Blake, Cassels & Graydon

Doug Macdonald
Canadian Environmental Law
Research Foundation

Anna Russell
Scarborough One Community Assoc.

Advisory Committee

John Bailey
Yellowknife, N.W.T.

Chesley Crosbie
St. John's, Nfld.

Jules Dufour
Chicoutimi, Quebec

Linda Duncan
Edmonton, Alberta

Janice Brown Harvey
Fredericton, N.B.

Marilyn Kinsky
Vancouver, B.C.

Nancy Macpherson
Whitehorse, YK

Elizabeth May
Ottawa, Ontario

Murray Rankin
Victoria, B.C.

David Schindler
Winnipeg, Manitoba

Bruce Wildsmith
Halifax, N.S.

Dear Friend:

Please find enclosed a letter from the West Burlington Citizens' Group. They are asking for your help to enable them to participate in the upcoming Environmental Assessment Hearing dealing with the issue of solid waste disposal in Halton.

The Canadian Environmental Defence Fund was created in order to assist groups such as the West Burlington Citizens' Group. The lack of sufficient funds for citizens who wish to be involved in protecting their environment often prevents them from fully participating in public forums. Clearly there needs to be more government financial assistance to intervenors. In the meantime our organization is doing what we can to assist some groups in their fund-raising efforts.

Proponents usually can afford to hire lawyers, consultants, and expert witnesses to ensure that their side of the case is presented in the best possible light. The disparity in funds seriously undermines the effectiveness of such public forums and many important cases do not receive a fair hearing.

The Canadian Environmental Defence Fund is a national, incorporated, registered charity, independent of any other legal or environmental organization. It is governed by a Board of Directors and case selection is done by a national Advisory Committee. Five well-known Canadians serve on our Honourary Board of Directors.

We are now raising funds on behalf of the West Burlington Citizens' Group. Please make your cheque out to The Canadian Environmental Defence Fund if you wish to receive a charitable receipt for income tax purposes. Your donation will go directly to the West Burlington Citizens' Group. We will not take any portion of your money for the Defence Fund. It is our policy to pass any donation ear-marked for a specific case directly to that case. Please fill out the coupon below and mail to the address indicated. A charitable receipt will be issued promptly.

Yours truly,

Marilyn Churley

Marilyn Churley
Executive Director



West Burlington Citizens' Group

P.O. Box 38, Burlington, Ontario L7R 3X8
Telephone 634-0411

September 5, 1986

AN INVITATION TO WALK SITE 'F'

The fundraising committee of the West Burlington Citizens' Group is seeking ways to publicize our concerns with regard to the choice of Site F as the location for Halton Region's new landfill. To this end we are planning to host a walk around the site on the morning of Saturday, October 4, 1986.

This walk will be captured on film thanks to the generosity of Lois Hill (Hill's T.V.) The idea is that the video tape would be screened at a later date on cable television with suitable persons present to present the citizens' case regarding Site F.

We hope that this effort, timed to coincide with the release of Halton's latest reports, will provide a heightened sense of awareness as we embark on our major fundraising campaign this fall.

I hope that your schedule will permit you to join us on the 4th to participate in this activity.

Yours truly,

A. Adam

SITE 'F' IS WRONG

EXECUTIVE OFFICERS

June Anderson

Brothy Pocock

McCoey

Ron Fast

Mary Jane Joelhower

Steve Sawell

Alex Adsett

Don Connor

Ant Zimmerman

June McDonnell

FUNDRAISING COMMITTEE

A. Sandy Adam

Reg Bullock

Tim Coppack

Ron Fast

Richard C. Harris

Fred Hill

Paul Pirie

Leslie Sawell

- Two reasons for meeting here today: 1) Press release
- 2) A walk to show past, present and proposed landfill sites

We are now at the stage in the Environmental Assessment process where the Region is gathering together more detailed information for their case at the hearing expected in the spring. The stack of consultants' reports on the table were made public on September 22nd and the public has been asked to respond at a public meeting on October 8th at Regional Headquarters. It is impossible to do this as it is too short a time to examine technical data and secondly two NB reports are not available - the cost analysis and the comparative analysis of Sites D & F. HOWEVER, we will be there - we intend to use every opportunity to fight Halton's attempts to landfill for another 20 years in Burlington.

Yesterday I attended a day long meeting at Regional Headquarters where the consultants presented these reports and answered questions from a joint committee. Two thoughts came to mind:

1) Consultants, although expert, are limited in 2 ways: 1) by their area of expertise and/or by their terms of reference. For eg. an expert will talk about the % of leachate going into the sewage treatment plant, but what about the other end of the pipe? If the International Joint Commission has designated Hamilton Harbour as their #1 priority in water quality cleanup, why will there be leachate from a third site going into the Bay? The goal of the WBCG is to maintain and improve the quality of life in West Burlington and this is why it is absolutely imperative that we take on the role of stewardship by ensuring that NB questions are asked about such matters that are not being addressed and to ensure that we receive satisfactory answers or aim to effect changes. We must be sure that every aspect is addressed.

As you will recall, we were opponents at the expansion hearing for the present landfill site, 2½ years ago. One of the reasons was that we felt precedents could be set that would make it easier for the Region to justify a new site adjacent to it. My fears were realized when 1) the weigh scale, which was deemed to be only temporary and to be moved when the present landfill site is closed, was discussed as a means of cost saving for Site F as it was so close. 2) Because garbage predictions have been lowered we were told that the height proposed for Site F would be 5 metres lower than the present site - our own Halton mountain! However, should garbage exceed

predictions or an Energy from Waste plant not come on stream at the time predicted, they can always increase the height to match it!

Contrast this thinking with Peel Region - in its search for a landfill site, the region has stipulated that any area that already has a landfill site is eliminated from the running. In Peel, the two present sites we have here would be used as a means of eliminating our area for another site. In Halton they are being used as a means of justification for another site.

ACTIVITIES

<u>Date</u>	<u>Location</u>	<u>Subject</u>
June 15, 1983	Halton Region Planning & Public Works	Urged them to take advantage of every option, including export, to extend the life of present landfill site
June 6, 1983	Halton Region Solid Waste Management(SWMC)	as above as well as recycling
Sept. 28, 1983	Aldershot High School Halton Region SWMC	WBCG sent out flyers, telephoned residents re meeting about expansion of present site
October 24, 1983	Halton Region Council	followup on June 6 & 15th meetings
April, 1983	Minister of Municipal Affairs & Housing, Minister of MOE, Burlington City Council Halton region Council	petition of 3341 names of residents opposed to expansion of site and possible future site adjacent to it
January, 1984	residents of Aldershot area	carried out fundraising campaign in order to prepare for EPA hearing
March, 1984	WBCG annual meeting	flyer, telephone campaign for residents to attend meeting re landfill site
March, 1984	City of Burlington	concern over expansion proposals as well as long term plan
March, 1984	Minister of MOE	concern over Halton Region's request to bypass an EPA on basis of emergency

June-July, 1984	EPA Hearing	WBCG was the single opponent to the Region's request for expansion to the site
November, 1984	City of Burlington	letter with coloured photos re closed site (Bayview) showing erosion and exposed garbage
March, 1985	Region Solid Waste Advisory Committee	member of WBCG on this committee in order to explore the possibilities of EFW plan
March, 1985	City of Burlington	expressed views over selection of Burlington site as preferred site for Region
August, 1985	Minister of the Environment	as above
March, 1985	Aldershot area	prepared and distributed over 2,000 flyers for public information
July 10, 1985	Royal Botanical Gardens Halton Region consultants	organized public meeting for residents to hear proposal re proposed landfill site
July 15, 1985	Minister of the Environment	letter re Ford Company EFW operation
Sept., 1985	Canadian Environmental Law Association (CELA)	hired hydrogeologist to prepare independent report in order to apply for the services of CELA
Feb 1, 1986	City of Burlington	presentation to request funds to assist in WBCG presence at EAA hearings
April, 1986	Minister of the Environment	formal response to the EAA document
May 7, 1986	Halton Region Council	presentation to request funds to assist in WBCG presence at EAA hearings
Sept., 1986	Canadian Environmental Defence Fund	WBCG request for assistance in fundraising accepted

ACTIVITIES

October, 1986	Aldershot area	mailed 800 flyers to homes for fundraising on a selected basis
October, 1986	Bayview Park	Public press conference held at closed dump site TV, radio & newspaper coverage rented bus & provided guided tours of past, present & proposed sites
November, 1986	Cam Jackson, MPP newsletter	submitted article to be included in MPPs newsletter
November, 1986	Aldershot Presbyterian / Church	card party - fundraising
November, 1986	Aldershot area	further mailing to expand on previous fundraising 12,000 flyers
November, 1986	Great Lakes United Water Quality Task Force	submission
January, 1987	Minister of the Environment Environment Advisory Committee	submission re proposed policy for interim expansion of municipal landfill sites

In addition to the above, members of WBCG have attended municipal and regional SWMC and council meetings as observers on a fairly regular basis to monitor meetings.

Following the approval of the expansion of the present site, a member of WBCG has continued to attend regular meetings of the Burlington Landfill Site Advisory Committee to provide input into the day to day management of the present site and to ensure that regulations put in force following the hearing were followed through

In addition to the formal response to the EA document for the proposed site(s), members of the WBCG have submitted responses to the ongoing consultants' reports throughout the entire process.

A member of the WBCG is a stakeholder at the Hamilton Harbour Water Quality committee.

WEST BURLINGTON CITIZENS GROUP
(INCLUDING SOLID WASTE MANAGEMENT COMMITTEE)

SUBMISSIONS

TO CITY OF BURLINGTON, REGION OF HALTON AND THE
PROVINCE OF ONTARIO

LIST OF DATES (not necessarily complete), LANDFILL RELATED ISSUES

<u>1983</u>	<u>1984</u>	<u>1985</u>	<u>1986</u>	<u>1987</u>
Feb. 9	Feb/Mar.(?)	Mar. 23	(See	Feb. 11
Mar. 5	Mar. 1	Mar. (?)	Attached)	(Preliminary
Mar. 10	Mar. 5	Mar. 25		Hearing)
Apr. 28	Mar. 12	Apr. 1		
Apr. 29	Mar. 12	May 8		
Apr. 29	Mar. 20	July 15		
May 19	Mar. 23	July 15		
Aug. 23	Mar. 25			
Sept. 6	Mar. 25			
Sept. 26	Mar. 26			
Oct. 12	Apr. ?			
Oct. 13	May 2			
Oct. 14	May 7			
Oct. 24	May 29			
Nov. 9	May 30			
Nov. 14	Aug. 29			
Nov. 18	Sept. 7			
Dec. 5	Oct. 17/			
Dec. 12	Nov. 13			
	Nov. 7			
	Nov. ?			
19	23	7		

WBCG (including SWMC) Submissions etc., 1986 (incomplete)

- A. Region of Halton's SWAC, Sid Chumley for WBCG
No. of meetings - 20
- B. Formation and participation in "Hamilton Harbour
Shareholder' Committee"
No. of meetings - 6
- C. Miscellaneous:
 - 1. Jan/Feb., Applied for grants re Halton Region landfill
EAA Hearing to (a) City of Burlington
(b) Region of Halton
 - 2. Jan. 17 (Sid Chumley) re Afteruse of Landfill Site(s)
 - 3. Feb. 12 (H. Kreplin) re Official Plan Amendments proposed
(Halton)
 - 4. Mar. 14 (H. Kreplin) re Official Plan Amendments proposed
(Halton): Brief
 - 5. Apr. 10 (CELA) Submission to Minister of Environment on
Halton's Environmental Assessment and MOE Review and
request for hearing under Consolidated Hearings Act
 - 6. Oct. 4 (WBCG) Press conference at Bayview re consultants'
reports
 - 7. Oct. 8 (D. Ward) Asking Halton's SWMC to delay approval of
reports until also seeing reports on (a) costs,
(b) comparison of sites
 - 8. Oct. 15 (WBCG) same as (7) above, to City of Burlington
 - 9. Fundraising appeal letters to households

Prepared by Hans Kreplin, West Burlington Citizens Group
February 15, 1987

CURRICULUM VITAE

PAUL W. BOWEN, P.ENG

EDUCATION

B.A.Sc., University of Toronto, 1977
Department of Geological Engineering and Applied Earth Science
Geotechnical Division

M.A.Sc., University of Waterloo, 1984
Department of Civil Engineering
Hydrogeology and Geotechnical Engineering

AFFILIATIONS

Registered Professional Engineer, Province of Ontario
Designated Consulting Engineer, Province of Ontario
Member, National Water Well Association
Member, Engineering Institute of Canada
Member, Canadian Geotechnical Society
Member, American Society of Civil Engineers
Member, International Society of Engineering Geology

PROFESSIONAL EXPERIENCE

1984 to date
Terraprobe Limited Brampton, Ontario

Vice-President responsible for coordination and technical direction of geotechnical and hydrogeologic investigations for civil, industrial, environmental, and mining fields. Areas of involvement in hydrogeology include site selection for municipal and hazardous waste landfills, mine tailings areas, instrumentation to monitor groundwater quality and contaminant movement, modelling of contaminant migration, groundwater resources development, and ground water control and dewatering. Areas of involvement in geotechnical engineering include site investigation and terrain analysis, foundations and settlement analysis for structures, design of earth embankment dams and lagoons, analysis of slope stability.

1982 to 1984
Golder Associates Mississauga, Ontario

Hydrogeologist/Geotechnical Engineer, responsible for technical administration of projects for hazardous and municipal waste management facilities in Canada and U.S.A, including design of monitoring well systems, supervision of groundwater sampling programs, leachate characterization programs, assessment of geochemical behaviour, attenuation and transport of contaminants in the groundwater system. Responsible for studies of hydrogeologic impact of quarry operations, prediction of groundwater inflow into

underground mines and open pits, and recommendations for groundwater control. Analysis of infiltration through landfill covers, and assessment of leachate production rates. Geotechnical studies of stability of containment dykes.

1979 to 1981

Golder Associates Mississauga, Ontario

Geotechnical Engineer, responsible for supervision of major geotechnical investigation of tailings management area for uranium mill, design of tailings containment dams, analysis of dynamic stability, assessment of borrow materials, laboratory testing of low permeability dam core materials. Responsible for geotechnical investigations and recommendations for remedial measures for several slope failure/ movements in Southern Ontario, and dam failure in northern Ontario.

1977 to 1979

Bruce A. Brown Associates Limited Toronto, Ontario

Geotechnical Engineer, involved in numerous field investigations for building foundations, aggregate resource surveys, septic system studies, municipal water well development and pumping tests.

SELECTED PROJECT EXPERIENCE

Study of over 120 abandoned landfill sites in Ontario as part of a federal government inventory. The study comprised a detailed review of local and regional hydrogeologic conditions, interviews with former site operators and local residents, and detailed site inspections. A priority rating system was established to indicate the relative impact and hazard of each site. The highest priority sites were chosen for later, detailed investigation.

Development of sampling program for an industrial waste disposal facility near Chatham, Ontario. Specialized stainless steel monitoring wells were installed through closed former lagoons which once received liquid wastes. The wells were specially cleaned and prepared to permit sampling for priority pollutants at trace levels. The results of the sampling were used to characterize leachate composition for design of treatment facilities.

Investigation of the rate of leachate production at a municipal landfill in Essex County was assessed using a water balance analysis, which was modified to suit the particular site conditions. The model was verified by comparing predicted leachate production with existing production rates for the site. The model was further implemented to predict leachate production rates for a number of closure alternatives. Recommendations were presented for the most suitable alternative, and for appropriate design measures to minimize leachate production rates.

Hydrogeologic investigation of a major industrial waste processing and disposal facility near Toledo in Northern Ohio. The investigation included installation of over 30 monitoring wells to assess the nature and source of possible ground water contamination at the site; detailed sampling and water quality analyses for priority pollutants and volatile organic compounds in the parts per billion range; meetings and presentations to state and federal agencies regarding proposed monitoring programs and remedial measures for site upgrading; assessment of stability of lagoons and dykes containing hazardous waste; recommendations for closure of operating lagoons and stabilization of contained sludges; evaluation of mobility and attenuation of contaminants in the subsurface, and evaluation of compatibility of native clay soils with organic and inorganic wastes.

Study of lime residue materials at former disposal area located on Fighting Island in the Detroit River. The loose saturated nature of the materials required development of specialized procedures for access and sampling. The samples were analysed for priority pollutants and volatile organic contaminants. Specialized cleaning, sampling, handling, and quality control techniques were utilized to ensure the quality of the samples.

Assessment of the hydrogeologic impact of a proposed quarry operation in the Niagara Escarpment was studied. The study included review of available geologic, topographic, and water well data, to assess the effect of the quarry on local water supplies, and on local wetland areas which had been designated as environmentally sensitive. The possibility of regional lowering of groundwater levels, stream capture, and deterioration of water quality as the result of pumping from the quarry were studied.

Study of mine water inflows for gold mine in Northern Quebec. An underground pumping test was conducted during the development stages of the mine, using existing drillholes and pump capacity, to assess the hydraulic properties of the bedrock. A simple analytical model was developed to predict groundwater inflows during mine development and operation, and to determine the rate of depressurization for use in rock mechanics stability studies. Recommendations were also presented for appropriate pumping capacity for the mine.

Hydrogeologic assessment of existing municipal located on Niagara Escarpment, near Beamsville, Ontario. Included detailed drilling and sampling program to determine site geology/hydrogeology; installation of monitoring wells to sample ground water quality, and establishment of key surface water monitoring points. Detailed recommendations were presented regarding limitation of waste types accepted at the site, and probable future impact of the site.

Hydrogeologic assessment of municipal landfill near Thorold, Ontario. The study included installation of monitoring wells to sample ground water quality, and detailed sampling of surface water courses in the vicinity of the site, to determine possible impacts of leachate migration from the site. Recommendations were presented for a long term monitoring program for the site, and the possible effect of the site on ground and surface water resources in the area.

Investigation of the properties of glacial till materials for use as low permeability cores for containment dams for an active uranium tailings facility in Elliot Lake, Ontario. A detailed parametric study of the effect of water content, degree of compaction, and overburden pressure on the permeability of the soil was undertaken. Recommendations and design specifications were produced for proper construction of the dam cores.

Study of migration of cyanide waste from an industrial disposal area in Windsor, Ontario. Monitoring wells were installed and soil samples were obtained from the vicinity of a former waste disposal area which was alleged to contain cyanide wastes. Detailed monitoring indicated that cyanide wastes were not present in the soil or groundwater in the vicinity of the site.

Prediction of rates of contaminant diffusion through an unconsolidated chalk deposit near Noxubee, Alabama. The results of laboratory diffusion tests on natural chalk materials from a hazardous waste facility were examined, and a predictive model of transport of the waste through the formation was made. The model indicated that contaminant transport through the chalk may be governed largely by diffusive processes. Additional laboratory testing using actual waste materials was recommended.

Recommendations and design for 6 tailing impoundment dams of up to 20 m (65 ft.) height for uranium tailings area, Elliot Lake Ontario, including assessment of stability under earthquake loading, requirements for foundation grouting, and design requirements for staged construction.

Study of failure of 20 m (65 ft.) high slope in Don Valley. Included assessment of causes of failure, monitoring of slope movement using surface benchmarks and slope indicator casing, and recommendations for design of remedial stabilization measures.

Subsurface investigation and assessment of stability of 25 m (80 ft.) high slopes for existing and post development conditions for proposed condominium development near Georgetown, Ontario.

Investigation of failure of embankment dam which occurred during installation of mini-hydro turbine unit, and design recommendations for and inspection of remedial reconstruction measures. Near Chapleau, Ontario.

Subsurface investigation and design recommendations for flood control levees near Drayton, Ontario. Included recommendations for design of relief well systems to control seepage and piping in alluvial soils beneath the dykes.

REGINALD STEPHEN LANG

Reg Lang

Professor in Environmental Studies
York University
4700 Keele St.
North York Ontario M3J 1P3
(416)736-5252 ext 2634

Residence:
85 Spruce St.
Aurora, Ontario L4G 1S2
(416)727-4177

Education

Bachelor of Science (Civil Engineering), University of Saskatchewan, 1957.
Master of Science (Community Planning), University of Manitoba, 1963.

Professional

1957-62: Sewer Design and Construction Engineer, City of Regina, Engineer's Department.

1963-65: Central Mortgage and Housing Corporation, Planning Research Group, Ottawa, and Assistant Branch Planner, Halifax.

1965-71: Director of Community Planning, Nova Scotia Department of Municipal Affairs. Responsible for 20-25 person multidisciplinary planning team administering the Town Planning Act and providing assistance to urban and rural municipalities across the province. Study Director for Town Planning Act Review, 1968-69, which resulted in a new Planning Act.

1971 to present: Consultant to various agencies concerning urban and regional planning and policy, social and environmental assessment, environmental planning, energy planning and management, resource management and professional development. Recent clients have included:

Federal Environmental Assessment Review Office, 1977-80: member of three environmental assessment panels reviewing Eldorado Nuclear Limited proposals to build uranium hexachloride refineries at five sites in rural Ontario and Saskatchewan.

Environment Canada, Lands Directorate, 1979-80: assistance with organizing and conducting a national symposium on energy conservation through land use planning in Montreal, and conduct of a workshop on land use impacts.

Canada Mortgage and Housing Corporation, 1980: preparation of feasibility study for handbook on energy conservation through urban planning.

Indian and Northern Affairs Canada, 1981: participation in Northern Land Use Planning Workshop, Mont Ste. Marie, Quebec.

Ontario Ministry of Transportation and Communications, 1981: survey of transportation energy-conserving activities of Ontario municipalities.

Ontario Ministry of Energy, 1981-83: preparation of guide to community energy profiling as part of "Handbooks for Planners" series; and design of microcomputer program to estimate community energy consumption.

Energy, Mines and Resources Canada, 1982: design of training program for municipal energy managers.

The Banff Centre School of Management, 1983-1985: development and conduct of two one-week seminars on "Integrated Approaches to Resource Planning and Management".

Atomic Energy of Canada Ltd., 1984: review of social impact analysis of pre-closure concept of federal Nuclear Waste Management Program.

David Estrin, Barristers and Solicitors, 1985-86: expert witness on impact assessment, Waste Not Wanted v. The Queen; and critical evaluation of Regional Municipality of Peel's waste management master planning process, emphasizing site selection, social impact assessment and public participation.

Volunteer advisor to various community and environmental groups.

Academic

1971-1977: Associate Professor, Faculty of Environmental Studies, York University. Promoted to Professor, July 1977.

Courses taught, all to graduate students, have included lectures, seminars and workshops in: introduction to planning; introduction to urban/regional planning; planning theory and methods; planning/design/management; policy analysis; environmental planning; environmental considerations in urban and regional planning; environmental impact assessment; energy in urban settlement; interventionist roles and responsibilities; creative problem-solving; and synthesis skills. Also, supervision of numerous directed readings, independent studies, major papers and field experience, and participation in oral general and final examinations. Advisor to 20-30 graduate students per year.

Thesis evaluator, Osgoode Law School (environmental impact assessment). Ph.D. examiner, University of Waterloo. Guest lecturer at York University, University of Toronto, Queen's University, McGill University, Concordia University, Dalhousie University and Technical University of Nova Scotia.

Program Coordinator, Dean's office, Faculty of Environmental Studies, York University, 1973-1976. Membership on various Faculty and University committees. F.E.S. representative to Association of Canadian University Planning Programs, Associated Collegiate Schools of Planning, and American Planning Association. F.E.S. liaison to Canadian Institute of Planners and Ontario Professional Planners Institute. Elected member of York University Development Corporation's Advisory Council.

Non-degree courses taught in impact assessment, planning and energy conservation.

University of Nairobi, 1982: course in environmental impact assessment for graduate students and civil servants in the Kenya government.

University of California, Davis, 1979: Research Associate, Faculty of Agricultural and Environmental Sciences (sabbatical leave).

Awards

Research Fellowship, Faculty of Environmental Studies, York University, 1984.

Queen's Silver Jubilee Medal, 1977, for "worthy and devoted service" to the planning profession in Canada.

Nuffield Travelling Fellowship, 1969-70, to study regional development planning in Europe, based at Centre for Environmental Studies, London.

Town Planning Institute of Canada, Certificate of Distinction, 1963.

Memberships

Member, Canadian Institute of Planners, since 1964. National Councillor, 1967-70. National Examiner, 1970-72.

Member, Ontario Professional Planners Institute, since its inception in 1986.

Member, Association of Professional Engineers of Ontario, since 1971.

Member, American Planning Association.

Recent Research

Resources for Environmental Planning. Preparation of a resourcebook for environmental planners and managers in Canada; included theoretical background to environmental problems and planning, description of key environmental resources and activities, elaboration of an environmental planning/management approach, extensive documentation of the literature, and development of 99 case studies using a network of practitioners across Canada. Funded by Environment Canada, 1977-78.

Energy in the Community. Evaluation of the California experience with energy planning and management at the local level; included an on-site two-month case study of Davis, California, funded by Ontario Ministry of Energy, 1979. Report on energy conservation and the municipal planner, including a review of energy and land use relationships, a classification of energy-conserving measures available to planners and a survey of Canadian practice, funded by

Energy, Mines and Resources Canada, 1979-80. Documentation of 40 case studies of energy conservation through land use planning in Canada and the United States, funded by Environment Canada, 1980-81. Study of concepts and methods of community energy profiling, 1980-83. Evaluation of Ontario's Energy Conservation Through Land Use Planning Grant Program, 1984-86. Study of relationship between energy and residential density, funded by Canada Mortgage and Housing Corporation, 1985.

Social Impact Assessment. Study of concepts and practice of social impact assessment and implications for the federal Environmental Assessment and Review Process, 1979-80.

Integrated Resource Planning and Management. Editor of a book on integrated approaches to resource planning and management in Canada (including survey of the field and preparation of two papers), for the Banff Centre. Study of integrated land/water planning and management in the Great Lakes Basin, underway.

Other Research Interests. Planning as a way of thinking and acting. Reframing planning practice. The achievable energy-efficient community. Environmental negotiation. Ethics of intervention.

Recent Presentations

Conferences, lectures and seminars during the past five years include:

"The Review Side of EIA: Lessons from a Panel Member", paper to continuing education course, York University, February 1981.

"Energy Profiling in Community Energy Planning and Management", presentation to Cities Energy Conference, Hamilton, April 1982.

"Politics of Conservation", presentation to Soil Conservation Society of America, Ontario Chapter, Cambridge, March 1983.

"Integrated Resource Management: What It Is and Why It's Needed", presentations to seminars at the Banff Centre, November 1983 and January 1985.

"Achieving the Energy-Efficient Community: The Planner's Role", paper to Annual Conference of Canadian Association of Planning Students, Halifax, January 1984.

"Contingent Theory and Planning Practice", paper to Annual Conference of Association of Collegiate Schools of Planning, New York City, October 1984.

"Rural Planning and the Future", presentation to University School of Rural Planning and Development, University of Guelph, March 1985.

"Conflicts in Codes of Ethics", panel presentation to Workshop on Ethical Issues in Natural Resources, sponsored by Occupational Ethics Group, University of Toronto, April 1985.

"Planning for Integrated Development: Strategic and Interactive", paper to Conference on Integrated Development Beyond the City, Mount Allison University, Sackville, June 1986.

Publications

Publications over the past ten years have included:

Lang, R.S. and Armour, Audrey. **Municipal Planning and the Natural Environment**. Toronto: Ontario Planning Act Review Committee, 1976. 90 pp.

Lang, R.S. "Impact Planning for Village Development", *Urban Forum*, Fall 1976, pp. 42-49.

Lang, R.S. "Environmental Assessment: Ontario Prospects". In *Proceedings of Geographical Inter-University Resource Management Seminar*, 1976. Waterloo: Waterloo Lutheran University, Geography Department, 1976.

Lang, Reg and Armour, Audrey. "The Process of Environmental Assessment: Making It Work for Canada". In *Environmental Impact Assessment in Canada: Processes and Methods*, edited by M. Plewes and J. Whitney. Toronto: University of Toronto, Institute for Environmental Studies, 1977.

Lang, Reg. "Environmental Assessment Changes Planning". *Plan Canada* 17 (March 1977): 59-69.

Lang, Reg. "The Natural Environment Component in Ontario's Municipal Plans", pp. 145-153. In *Ecological (Biophysical) Land Classification in Urban Areas*, edited by E.B. Wiken and G. Ironside. Ottawa: Environment Canada, 1977.

Lang, Reg and Armour, Audrey. "Preserving the Environment Comes First". *Canadian Chemical Processing* 62 (Feb. 1978): 21-25.

Lang, Reg. "Environmental Assessment: Reform or Rhetoric?", pp. 233-255. In *Ecology Versus Politics in Canada*, edited by William Leiss. Toronto: University of Toronto Press, 1979.

Armour, Audrey and Lang, Reg. **Impacts of Urban Railways**. University of Toronto/York University Joint Program in Transportation, March 1979. 267 pp.

Lang, Reg. "Environmental Information in a Planning/Management Context", pp. 285-294. In *Applications of Ecological (Biophysical) Land Classification in Canada*, edited by C.D.A. Rubec. Ottawa: Environment Canada, 1979.

Lang, Reg and Lounds, John. **Information Resources for Municipal Energy Planning and Management**. York University, Faculty of Environmental Studies, 1979. 125 pp.

Lang, Reg and Armour, Audrey. **New Directions in Municipal Energy Management: The California Experience**. Toronto: Ontario Ministry of Energy, 1980. 185 pp.

Lang, Reg and Armour, Audrey. **Environmental Planning Resourcebook**. Montreal: Multiscience, 1980. 335 pp.

Lang, Reg and Armour, Audrey. **Sourcebook: Energy Conservation in 20 Canadian Cities**. Toronto: City of Toronto, 1980. 126 pp.

Lang, Reg and Armour, Audrey. **Energy Conservation and the Municipal Planner**. Ottawa: Energy, Mines and Resources Canada, 1980. 199 pp.

Lang, Reg and Armour, Audrey. **The Assessment and Review of Social Impacts**. Ottawa: Federal Environmental Assessment Review Office, 1980. 163 pp.

Lang, Reg and Armour, Audrey. **Planning Land to Conserve Energy: 40 Case Studies from Canada and the United States**. Ottawa: Environment Canada, 1982.

Lang, Reg and Armour, Audrey. **The Community Energy Profile: Concepts, Methods, Applications**. Toronto: Ontario Ministry of Energy, 1983. 101 pp.

Lang, Reg and Armour, Audrey. **Guide to Community Energy Profiling**. Toronto: Ontario Ministry of Energy, 1983. 199 pp.

Lang, Reg. **Review of Environmental Strategy and Action: The Challenge of the World Conservation Strategy** by Peter Jacobs. *Plan Canada* 23 (June 1983): 26.

Lang, Reg. "The Review Side of EIA: Lessons from a Panel Member", pp. 88-104. In **Issues in Environmental Impact Assessment**, edited by Audrey Armour. York University, Faculty of Environmental Studies, 1983.

Lang, Reg. "Achieving the Energy-Efficient Community: The Planner's Role", pp. 29-37. In **Energy: New Horizons for Canadian Planning**. Canadian Association of Planning Students Conference Proceedings, 1984. Halifax: Nova Scotia College of Art and Design and Technical University of Nova Scotia, 1984.

Lang, Reg. **Energy & Density**. Ottawa: Canada Mortgage and Housing Corporation, 1985. 101 pp.

Lang, Reg, ed. **Integrated Approaches to Resource Planning and Management**. Calgary: University of Calgary Press, 1986.

Lang, Reg. "Achieving Integration in Resource Planning". In **Integrated Approaches to Resource Planning and Management**, ed. Reg Lang. Calgary: University of Calgary Press, 1986.

CURRICULUM VITAE

STEVEN VARGA

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Willowdale, Ontario
M2M 3T8

Phone: 416-223-4151

Citizenship: Canadian

Date of birth: Nov. 24, 1954

RECENT EDUCATION

1979-1986 Completing, on a part-time basis, a Masters Program at the University of Toronto, Department of Botany, Erindale College.
Thesis title: Phytosociology of forests along the Niagara Escarpment from the Niagara River to Manitoulin Island.

Thesis objectives:

- to quantitatively describe and classify the forests along the Niagara Escarpment
- to find the major environmental variables influencing Escarpment forest composition.
- to determine if Escarpment forest stands are floristically distinct from the surrounding forest regions.

1974-1978 B.S.C. University of Toronto, St. Michael's College
(Zoology Specialist, Minor in Botany)

WORK EXPERIENCE (over the past 10 years)

1985- Field botanist, Management Committee of the Backus Group, funded
1986 by the Ontario Heritage Foundation and the Ontario Ministry of Natural Resources

Competitively awarded a contract to inventory the vegetation of Backus Woods - a provincially significant tract of carolinian forest. The study included: vegetation descriptions, mapping of rare plant species and community types, and an annotated plant checklist.

1985 Field botanist

Assisted Gartner Lee Associates Limited in a botanical study of the Holland Landing Prairie, funded by the Ontario Ministry of Natural Resources.

1984 Lab instructor, University of Toronto, General Ecology course

1983 Field botanist, Parks Canada, Ontario Region

Competitively awarded a contract to study 16 rare plant species at Point Pelee National Park. For each species the contract entailed: mapping and censusing, basic population ecology, critical habitat description, possible limiting factors responsible for species rarity, active/passive management recommendations, and a monitoring program.

REFEREED PUBLICATIONS

- Riley, J.L. and S. Varga. 1984. Draba reptans (Lam.) Fern. 1 page in G.W. Argus and C.J. Keddy, eds. Atlas of the rare vascular plants of Ontario. National Museum of Natural Sciences, Ottawa.
- Riley, J.L., S. Varga and M.J. Oldham. 1981. Additions and changes to the checklist of vascular plants of the Rouge River valley in Metropolitan Toronto and Durham Region. Ontario Field Biologist 35(1): 25-34.
- Varga, S. 1983. County/regional vascular plant checklists for southern Ontario: an update. The Plant Press, Field Botanist of Ontario Newsletter. Vol 1(4): 69-75.
- Varga, S. 1980. Progress on the Preservation of Metro's Natural Areas. P. 144-162. In Protection of Natural Areas in Ontario, eds. S. Barrett and J. Riley, Proceedings of Conference co-sponsored by the Botany Department, University of Toronto and Faculty of Environmental Studies, York University, York Univ., Faculty of Environmental Studies, Working Paper No. 3, 185 pp.
- Tant, M.S., S. Varga, M.A. Fleming and M.A. Bryant. 1977. Biological Documentation, Natural Features in Regional Municipality of Halton. An Experience 77 Project from the Ontario Ministry of the Environment. Joint Publication of the Regional Municipality of Halton Planning Department and the Royal Botanical Gardens. 74 pp.

NON-REFEREED PUBLICATIONS

Articles that have appeared in the Toronto Field Naturalists Newsletters :

- Varga, S. 1982. Environmentally significant natural areas in Metro Toronto. No. 348, p. 9-18.
- _____. 1981. High Park: the plant communities of Spring Road Ravine. No. 342, p. 12-17.
- _____. 1981. Plant Communities of High Park, No. 338, P. 13-19.
- _____. 1980. Rare plants of the Lower Rouge River Marshes. No. 333, p. 15-20.
- _____. 1980. Rare plants of the Rouge River Valley. No. 332, p. 14-18.
- _____. 1980. Rare plants of the Rouge River Valley: hemlock slopes. No. 331, p. 8-11.
- _____. 1980. Rare plants of the Rouge River Valley: streambank meadows. No. 330, p 14-18.
- Riley, J. and S. Varga. 1980. A white pine stand in the Rouge River Valley - what can we make of it? No. 329, p. 6-12.

- Varga, S. 1979. Will the natural areas on the Toronto Islands be preserved? No. 327, p. 12-13.
- _____. 1979. Rare plants on the Toronto Islands - woodlands and prairie communities. No. 327, p. 10-12.
- _____. 1979. Rare plants on the Toronto Islands - beach strands. No. 326, p. 24-25.
- _____. 1979. Rare plants on the Toronto Islands - wet meadows. No. 325, p. 30-31.
- _____. 1979. Toronto Islands - the mowing down of rare plants. No. 328, p. 19.
- _____. 1979. Metro Toronto - is it destined to become a biological desert? No. 328, p. 20-21.

Toronto Field Naturalists publications:

- Varga, S. 1984. Carex sedges of upland woodlands in Metropolitan Toronto and York Region, Toronto Field Naturalists, 8 pp.
- _____. 1984. A key to the violets of the Toronto Region. Toronto Field Naturalists, 2 pp.
- _____. 1987. Toronto Islands: plant communities and noteworthy species. Toronto Field Naturalists, 22 pp.

GOVERNMENT SPONSORED REPORTS - UNPUBLISHED

- Varga, S. 1986. Vegetation inventory of Backus Woods. Unpublished report prepared for the Management Committee of the Backus Group (copies available at the London Office of the Ontario Ministry of Natural Resources, Southwestern Region, and the Ontario Heritage Foundation) 335 pp. + 1:5,000 maps.
- _____. 1984. Status and species habitat management analysis for 16 rare plant species. Point Pelee National Park. Unpublished report prepared for Ontario Region, Parks Canada. 226 pp. + 1:10,000 maps.
- _____. 1979. A biological inventory of the Toronto Islands, an Experience 78 Project prepared for the Ontario Ministry of Natural Resources, Maple District Office. (copies available at the Maple District Office and the Royal Ontario Museum, Botany Department) 115 pp.

REPORTS - UNPUBLISHED

- Varga, S. 1984. A key to the common grasses of Metropolitan Toronto and York Region. 9 pp.
- _____. 1985. A key to the bullrushes of Metropolitan Toronto and York Region. 5 pp.
- Varga, S., P.M. Catling, A.A. Reznicek, S.M. McKay and K.L. McIntosh. 1987. Vascular plant checklist of the Regional Municipalities of York and Metropolitan Toronto (York County), Ontario.

PRESENTATIONS

Toronto Field Naturalists, Botany Group:

- ' The natural history of the Toronto Islands ' 1980
- ' Vegetation communities at Olympic National Park ' 1981
- ' Environmentally Significant Areas in Metropolitan Toronto ' 1981
- ' Vegetation communities at Grasslands National Park ' 1982
- ' Ferns in Ontario ' 1983
- ' Violets of the Toronto Region ' 1983
- ' Significant natural areas in Metropolitan Toronto and York Region ' 1984
- ' Pondweeds in Ontario ' 1984
- ' Common grasses in Metropolitan Toronto and York Region ' 1984
- ' Upland sedges in Metropolitan Toronto and York Region ' 1984
- ' How to identify bullrushes ' 1985
- ' The flora of Backus Woods ' 1986
- ' Alvars in Ontario - our famous limestone barrens ' 1986
- ' Identification of winter twigs in Ontario ' 1987

Toronto Field Naturalists, Monthly General Meetings:

- ' Natural Areas along the Niagara Escarpment ' 1983
- ' Natural Areas on Toronto's waterfront ' 1980

Toronto Field Naturalists, Junior Club:

- ' Natural areas along the Niagara Escarpment ' 1984
- ' Natural areas in Western Canada ' 1981

Brodie Club and the Hamilton Field Naturalists:

- ' Environmentally significant areas in the Regions of Metropolitan Toronto and York ' 1982 and 1983

Conference on the 'Protection of Natural Areas in Ontario', co-sponsored by the Department of Botany, University of Toronto and the Faculty of Environmental Studies, York University. April 12, 1980.

- ' Progress on the preservation of Metro's natural areas '

University of Toronto, Botany Department, Graduate Student Seminar Series:

- ' Ecology of forests along the Niagara Escarpment ' 1982

University of Toronto, Department of Environmental Studies, Lunch Time Seminar Series:

- ' Vegetation communities of the Toronto Islands ' 1979

' What is so special about Backus Woods? ' - a sight and sound tour of one of Canada's finest Carolinian forests given by Mary Gartshore, Kevin Kavanagh, Mark Stabb and Steve Varga.

Norfolk Field Naturalists, Simcoe 1986

McIlwraith Field Naturalists, London 1986

Toronto Field Naturalists, Toronto 1987

Federation of Ontario Naturalists and the Botany Conservation Group at the University of Toronto, Toronto 1987

Canadian Botanical Association Conference, Fredericton, 1984

' Forest ecology along the Niagara Escarpment from the Niagara River to Manitoulin Island'

Canadian Botanical Association Conference, Regina, 1982

' Phytosociology of forests along the Niagara Escarpment from the Niagara River to Manitoulin Island'

Wildflower Symposium, Humber Arboretum, May 3, 1985

' The importance of natural areas'

Pickering Naturalists Club and the Halton-North Peel Naturalists

' Natural areas along the Niagara Escarpment' 1985 and 1986

CONFERENCES

One of the organizers for the 1984 weekend conference of the Field Botanists of Ontario at Red Bay Lodge.

The chief organizer for a 1980 conference on the 'Protection of Natural Areas in Ontario', co-sponsored by the Botany Department, University of Toronto and the Faculty of Environmental Studies, York University.

MEMBERSHIPS

- Central Waterfront Planning Committee, City of Toronto Planning Board (member on board 1978-1984)
- Botany Conservation Group at the University of Toronto (founding member 1979-)
- Federation of Ontario Naturalists (director-at-large 1983- , chairman of the Conservation Committee 1986-)
- Ontario Field Biologist (member on editorial board 1983-1986)
- Toronto Field Naturalists (member on board 1979-1982, Botany Group leader 1983-)
- Canadian Botanical Association
- Coalition to Save the Niagara Escarpment
- Ottawa Field Naturalists
- Bruce Trail Association
- The Plant Press
- The Ontario Field Ornithologist
- Brodie Club

AWARDS (over the past 10 years)

1983 Conservation Achievement Certificate, Federation of Ontario Naturalists

1982 University of Toronto Conservation Scholarship

1981 University of Toronto Scholarship

1980 University of Toronto Conservation Scholarship