

THE CORPORATION OF THE CITY OF BRAMPTON

BY-LAW

217-77

				
By-law	to	authorize	the execution	
•				

of an Agreement between The Corporation of the City of Brampton and Ecologistics Limited. (An Environmental & Recreation Study)

The Council of The Corporation of the City of Brampton ENACTS as follows:

That the Mayor and the Clerk are hereby authorized to execute an Agreement between The Corporation of the City of Brampton and Ecologistics Limited, attached hereto as Schedule 'A'.

READ a FIRST, SECOND and THIRD TIME and PASSED in Open Council this 22nd day of August, 1977.

James E. Archdekin, Mayor

Kenneth R. Richardson, Clerk

AGREEMENT

FOR

ENVIRONMENTAL AND RECREATION

PLANNING SERVICES

MEMORANDUM OF AGREEMENT dated the

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A.D. 19

BETWEEN:

THE CITY OF BRAMPTON

hereinafter called the "Client"

- AND -

ECOLOGISTICS LIMITED

hereinafter called the "Consultant"

WHEREAS the Client desires consulting services with respect to the potential after use of gravel pits and woodlot management in an urban context.

hereinafter called the "Project" and has requested the Consultant to furnish professional services in connection therewith;

NOW THEREFORE WITNESSETH that in consideration of the mutual premises and convenants contained herein, the Client and the Consultant mutually agree as follows:

ARTICLE 1 - GENERAL CONDITIONS

1.1 Retainer

The Client hereby retains the services of the Consultant in connection with the Project and the Consultant hereby agrees to provide the services described herein under the general direction and control of the Client.

1.2 Services

The services to be provided by the Consultant and by the Client for the Project are set forth in Article 2 and such services as changed, altered or added to, under Sections 1.8 and 1.9 are hereinafter called the "Work".

1.3 <u>Compensation</u>

The Client shall pay the Consultant in accordance with the provisions set forth in Article 3.

1.4 Staff and Methods

The Consultant shall use the best available methods in performing the Work and shall employ only skilled and competent staff theron who will be under the supervision of a senior member of the Consultant's staff.

1.5 <u>Drawings and Documents</u>

Subject to clause (e) of Section 3.3, drawings and documents or copies thereof required for the Work shall be exchanged between the parties on a reciprocal basis, and those prepared by the Consultant for the Client shall be the property of the Client free of all claims by the Consultant of any nature and kind whatsoever.

1.6 Records and Audit

- (a) In order to provide data for the calculation of fees on a time basis, the Consultant shall keep a detailed record of the hours worked by and salaries paid to his staff employed on the "Work".
- (b) The Client may inspect and audit the books, payrolls, accounts and records of the Consultant at any time with respect to any item which the Client is required to pay on a time scale or disbursement basis as a result of this Agreement.

1.7 Estimate of Fees, Schedule of Progress and Staff List

1.7.1 Preparation of Estimate of Fees, Schedule of Progress and Staff List

- (a) The work to be completed under this agreement shall not exceed \$18,955; subject to Appendix 1 Estimate of Fees (if attached).
- (b) Such work shall be completed subject to Appendix 2 Schedule of Progress (if attached).
- (c) Staff to be used on this Project are:

as noted under Section 3.2.1

1.7.2 Approval of Estimate of Fees, Schedule of Progress and Staff List

This Agreement constitutes approval of the estimate of fees, schedule of progress and staff list.

1.7.3 Subsequent Changes in the Estimate of Fees, Schedule of Progress and Staff List

The Consultant will require prior approval, in writing, by the Client for any of the following changes:

- (a) Any increase in the estimate fees beyond those approved under subsection 1.7.2.
- (b) Any change in the schedule of progress which results in a longer design period than approved in Subsection 1.7.2.
- (c) Substitution of individuals on the staff list as approved in Subsection 1.7.2.

1.7.4 Reporting of Progress

The Consultant shall provide the Client with a written report with each billing showing the portion of the Work completed in the billing period.

1.8 Changes and Alterations

The Client may in writing and at any time before or after the execution of the Agreement or the commencement of the design of the Work, delete, extend, increase, vary or otherwise alter the design of the Work forming the subject of the Agreement, and if such action by the Client necessitates additional staff or work, the Consultant shall be paid in accordance with Section 3.2.1 for each additional staff employed directly theron, together with such expenses and disbursements as allowed under Section 3.3.

1.9 Additional Services

The Chient may require the Consultant to perform services in addition to those required in Section 2.1, and in such cases the Chient shall pay the Consultant in accordance with Section 3.2.1 for any of the Consultant's staff employ a directly upon such additional service, together with such expenses of t disbursements allowed under Section 3.3.

1.10 Pur agion or Termination

The Olient may at any time by notice in writing to the Consultant subjected or terminate the Mork or any portion thereof at any stage of the undertaking and the Consultant shall thereupon be entitled to payment in accordance with Section 3.2.1 for any of the Consultant's staff replayed directly thereon together with such expenses and directly thereon together with such expenses and directly accordance of the color J.D.

1.11 Damages

The Consultant shall indemnify and save harmless the Client from and against all claims, actions, losses, expenses, costs or damages of every nature and kind whatsoever which the Client, his employees, officers or agents may suffer as a result of the negligence of the Consultant, his employees, officers or agents in the performance of this agreement.

1.12 Assignment

This Agreement or any portion thereof shall not be assigned or sublet without the consent in writing of the Client.

1.13 Previous Agreements

This Agreement supersedes all previous agreements, arrangements or understandings between the parties whether written or oral in connection with or incidental to the Project or to the execution of the design thereof.

1.14 <u>Time</u>

The Consultant shall perform the Work expeditiously to meet the requirements of the Client and shall complete any portion or portions of the Work in such order as the Client may require and the Client shall have the right to take possession of and use any completed or partially completed portions of the Work notwithstanding any provisions expressed or implied to the contrary and in any event, the Consultant shall execute the Work and Deliver to the Client the completed drawings and documents required for the Project on or before the 31st day of October A.D. 19 77.

ARTICLE 2 - SERVICES

2.1 Consultant's Services

.The services to be provided by the Consultant are as follows:

as described in the appended proposal dated June 14, 1977 and letter of June 30, 1977.

2.2 <u>Client's Services</u>

The Client will provide the following information to the Consultant:

- (a) Access to and the use of existing plans, profiles, utility information, legal documents, and correspondence relevant to the Work.
- (b) Direction and approvals from time to time as necessary during the currency of this Agreement.

ARTICLE 3 - COMPENSATION

3.1 Definitions

For the purpose of this Agreement, the following definitions shall apply:

(a) Fee Calculated on a Time Basis:

The fee calculated on the basis of time means that the fee shall be calculated as set out in Subsection 3.2.1 herein.

(b) Payroll Costs

Payroll costs means salary plus provision for statutory holidays, vacations with pay, unemployemnt insurance, workmen's compensation, health and medical insurance, group insurance, pension plan and sick time allowance where such benefits are paid by the Consultant, but will not include any bonus or profit sharing system or any premium paid for overtime work, except for such overtime work as may be approved by the Client in writing in advance of the overtime hours being worked and only for the advancement of the date of completion of the work identified in Section 1.16. Payment of overtime premium shall be in accordance with The Ontario Employment Standards Act.

3.2 Basis of Payment

3.2.1 Fees Calculated on a Time Basis

The Client shall pay the Consultant a fee, calculated on a time basis, for the part of the Work described in Section 2.1. Fees on a time basis shall be according to the following schedule:

D.	J. Coleman	\$287.50	per	diem	(7.5	Hours)
R.	Powell	\$100.00	_			
D.	R. Cressman	\$250.00	per	diem	`, ,	•
W.	H. Houston	\$100.00	per	diem		
R.	B. Garrard	\$250.00	per	diem		
G.	A. Ferguson	\$225.00	per	diem		
A.	G. McLellan	\$300.00	per	diem		
R.	Jaakson	\$250.00	per	diem		
J.	A. Beechinor	\$100.00	per	diem		

3.2.2 Where Fee Calculated on a Time Basis

The Consultant shall submit an invoice every four weeks to the Client for any fee calculated on a time basis for that part of the Work completed during the immediately preceding four weeks.

3.3 <u>Disbursements</u>

The Client shall reimburse the Consultant for the following:

- (a) Toll charges paid by the Consultant for long distance telephone calls, telegraph messages and similar telecommunications in connection with the Work.
- (b) Amounts paid by the Consultant for reasonable out-of-town living and travelling expenses of the Consultant's personnel employed directly in connection with the Work where such travel has been approved by the Client.

- (c) Amounts paid by the Consultant for other specialized consulting services provided that prior approval is obtained in writing from the Client.
- (d) The cost of electronic digital computers and associated equipment used with the consent of and at rates approved by the Client where, in the opinion of the Client, they have been used in lieu of the staff of the Consultant where the use of such staff would have entitled the Consultant to a fee on a time basis.
- (e) The cost of reproducing drawings, photographs, reports and similar documents required by the Client.

ARTICLE 4 - SPECIAL CLAUSES

None.

IN WITNESS WHEREOF the parties hereto have caused to be executed those presents by their officers properly authorized in that behulf on the day and year first above written.

SIGNED, SEALED AND DELIVERED

In the presence of:

M. E. Baldwin

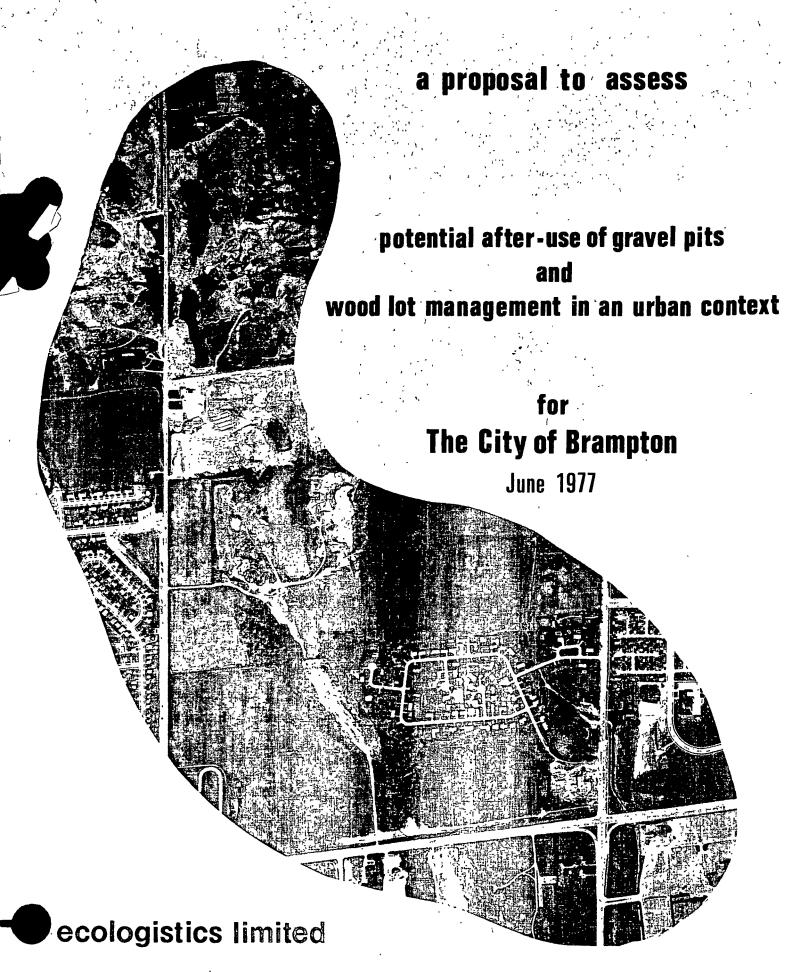
for D. J. Coleman

PRESIDENT, ECOLOGISTICS LID.

THE CORPORATION OF THE CITY OF BRAMPTON.

James E. Archdekin, Mayor

Kenneth R. Richardson, Clerk



133 Wynford Drive, Don Mills, Ontario · M3C 1K1

Tel. (416) 429-3411

June 14, 1977.

Mr. John Marshall, Manager, Official Plan Task Force, City of Brampton, 24 Queen Street East, Brampton, Ontario. L6W 2A7

Dear John:

RE: Studies of Potential After-Use of Gravel Pits and Woodlot Management in an Urban Context

Attached you will find our proposals for the above noted studies.

We have appreciated the opportunity to meet with you and others at the City and to prepare this submission. In the proposal, we have attempted to respond to two of the important elements that you will consider and resolve in your preparation of an official plan.

Our experience with woodlots and gravel pits is broad. I feel that we can offer you professional advice on these matters from our unique perspective.

I would be pleased to provide you with any further information should you require it in your deliberations.

Yours sincerely,

D. J. Coleman, Ph.D., M.C.I.P., R.P.F. President.

DJC/kds

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WOODLOT MANAGEMENT IN AN URBAN CONTEXT

Trees make important contributions to our urban environments. Because of these contributions, they deserve more attention in the planning and development sequence than presently received. There are two aspects to this requirement. First, trees are biological, living entities. They have certain environmental requirements and interrelations. This makes them sensitive to the disturbances caused by development of the landscape. In the past, such development has been insensitive to the trees. Thus, the first aspect is that during the development process attention should be paid to the sensitivities of the vegetation. The second aspect is that the potential contribution of the vegetation to the urban environment is not often maximized.

A typical sequence in development of a property with a remnant woodlot on it would see the woodlot dedicated as open space if it is unsuited to building (and recreation) or overbuilt with condominiums. In either case, the land use is not compatible with the qualities of the environment.

This proposal is for a study which will introduce a little more sanity to the development of land with trees on it. The

solution, as we see it, includes three elements:

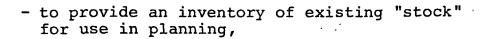
- an inventory of the characteristics of the vegetation, an evaluation of its sensitivities and a suggestion as to desirable landuses;
- a guidebook demonstrating how natural vegetation can be incorporated into the urban environment;
- a handbook, including regulations, outlining procedures for protecting trees on development sites.

This information will complete the environmental sensitivity input to the hazard lands section of the official plan. The studies being conducted by the C.V.C.A. and M.T.R.C.A. are at a regional scale. The local environmental features, still important to a quality environment, such as woodlots are being ignored in this scale of study. Thus, this proposal for an inventory and supplementary books will fill in this important gap and suggest measures for implementation.

These elements are described further in the following subsections.

<u>INVENTORY</u> - Any problem can be either avoided or lessened if it can be anticipated. Thus, we suggest that an overview

inventory of the woodlots within the Municipality be undertaken in order to provide this insight. The objectives are several:



- to assess which areas are so sensitive or significant that they should be protected,
- to recommend for those stands which can withstand some development pressure what suitable land uses and management practices are acceptable.

The inventory conducted by the Municipality last summer is a start in this direction. However, it possesses weaknesses in that little information on the stand is presented, soil and vegetation subunits are not identified and there are few definite recommendations on individual stands. Thus, we suggest an integrated biophysical inventory which would cover the following stand features:

- vegetation species mixtures with semiquantitative measure of abundance,
 - size class
 - density of overstory
 - understory characteristics
- soils materials drainage
 - slope

With this inventory information, ratings of the stand potential in an urban context (recreational, large lot, small lot) can be created and recommendations given on the management of each property. The major products of the study will be a map of the Municipality showing recommendations on each property and a statistical summary of the information. An individual report on each woodlot will be submitted to the Municipality.

GUIDEBOOK - A part of tree preservation and protection is a "selling job" to land owners, developers and planners. During this part of the study, a document will be developed outlining the benefits of vegetation in the urban context. This will include discussion and presentation on:

- aesthetics and visual benefits
- microclimate amelioration
- air pollution reduction
- noise control
- wildlife and natural features

The objective is to create the rationale for tree preservation. The guidebook will be illustrated to demonstrate the major points. It will include guidelines for urban design.

HANDBOOK - The problem with trees in the planning process is not simply recognizing their value, but providing concrete methods for protecting them during the building/construction phase. There are various techniques available. These will be compiled and presented with illustrations. Specific requirements will be suggested for the Municipality to implement in its approval process. These will be tied to the problems and situations identified in the inventory phase.

With these three elements - inventory, guidebook, handbook - Brampton will be able to optimize the use of its remaining natural vegetation.

POTENTIAL AFTER-USE OF GRAVEL PITS

The major physical feature in Brampton is the "esker" and its associated deposits. This mineral aggregate resource is currently being mined for building materials. Currently this extraction zone is designated as open space. However, the potentials and problems related to the deposit and its after-use have not been fully resolved.

Thus, a study is required which address the two major aspects of the problem. First, what is the nature and extent of the deposit and what are the plans for mining it? Second, what potentials and problems are there, given this situation, for the after-use of the pits. particularly for recreation?

The results of the study will be integration of these two elements into firm recommendations on how to deal with the situation from a planning viewpoint. The details of these two subsections are described in the following.

MINERAL RESOURCES - There are three parts to this section of the study.

First, all surface and subsurface information available concerning the quantity and quality of the remaining resource and its horizontal and vertical distribution will be assembled. Consideration of this information is pertinent to obtaining an accurate picture of maximum extraction and surface impact of a plan for total or judicious partial extraction. It will also allow a total dollar value to be established for the resource - thus, indicating the amount of money that will be available for rehabilitation.

Other objectives are to (1) develop a differential quality statement on the resource allowing a selective extraction plan to be developed which responds to the value of the resource as well as other appropriate considerations;

(2) to allow a defensible argument to be developed if resources are to be left in the ground; and (3) to help to assess the distribution and elevation of the groundwater table and any possible impacts through extraction.

The second major element is to assemble all information concerning the extraction plans that aggregate producers (present and potential) have or anticipate. This will be done in three ways - by examining the site plans filed with M.N.R., by interviews with the pit owners and operators, and by discussions with M.N.R. personnel. It is likely that the site plans were filed individually, and, thereby, are in no way conducive to comprehensive planning. They will, however, indicate the extent, sequence and timing of operations.

Also, while inadequate for integrated planning, these site plans conform to the Provincial and local regulations. Any amendments must be negotiated. This requires a comprehensive understanding of the situation. Benefits to the producers in terms of increased extraction, removal of setbacks and support of additional licensed acreage which strengthen rehabilitation goals in the public interest can be used to negotiate enhanced plans for the sites.

The third part to this section concerns a review of possibilities for the Municipality. In the near future, the new legislation will probably mean that a new source of funds will be available. This study will produce a step by step plan for managing the resource whereby the Municipality can obtain and optimize the expenditure of the money. It is likely that Brampton well be the first municipality in a position to obtain such money and will be the first municipality to work in a positive way with the aggregate producers in producing a sound and effective plan.

<u>DESIGN POTENTIALS</u> - The gravel properties present a substantial potential for urban-oriented after-use because they will contain water - a scarce commodity. We safely can assume that well-designed water-oriented recreation opportunities in

Brampton will be used and are needed. Thus, it is not our intention to dwell on the demand side of the recreation equation. Our study instead takes the approach that the requirement is to examine the supply implications of the recreation potential of the pits. Thus, we will provide answers to the following questions:

- what are the physical site limitations of the pits for recreational or urban development?
- what are the constraints to use of the pits from surrounding land uses, traffic circulation, and adjacent activities?
- what special recreation activities can the rehabilitated lands provide, and how does this potential relate to the other recreation opportunities in Brampton?
- schematically, what are the design alternatives for the sites?

Our approach will be to examine the sites in the field, to take inputs from the mineral and woodlot sections of this study and to gather relevant information from the City. We will assimilate this information and prepare general alternatives for the properties. The advantages and disadvantages will be spelled out for each alternative and evaluations conducted. Final recommendations will

emphasize the directions for the City to take in encouraging rehabilitation of the properties to suit the design potentials.

STAFF, BUDGET AND TIMING

We have prepared the following proposal for staff, budget and timing based upon the technical requirements for the study outlines in the previous sections.

STAFF - We propose to treat the two sections of the study, woodlots and gravel, as distinct entities to be conducted in parallel, with cross-inputs when necessary.

Our proposed organization reflects that duality. Detailed curricula vitae of the individuals mentioned below are appended.

Woodlots Subproject Staffing

- Dr. D. J. Coleman, President Ecologistics Limited will act as study director, responsible for overseeing the project and liaision with the Municipality.
- C. P. Cecile, Environmental Planner (vegetation) will conduct the vegetation field inventories.
- J. C. Fox, Environmental Planner (land resources) will carry out the soils analyses.

- W. H. Houston, Landscape Technician will aid in drafting the report.
- R. B. Garrard, Urban Planner will advise on design potential and problems related to the difficult sites.

Gravel Subproject Staffing

- G. A. Ferguson, Senior Environmental Planner will supervise the work and liaise with the Municipality.
- Dr. A. G. McLellan, Scientific Associate will advise on the mineral deposits and extraction plans.
- Dr. R. Jaakson, Principal will conduct the recreation aspects of the study.
- R. B. Garrard, Urban Planner will advise on the physical design limitations of the site.
- J. C. Fox, Environmental Planner (Land Resources) will collect the information on the mineral resources.
- W. H. Houston, Landscape Technician will help in the preparation of the report.

BUDGET - Our time estimates, per diems and total cost estimates for the study are as follows:

Woodlots Subproject

- D. J. Coleman	10 days at \$287.50	\$ 2,875.00			
- C. P. Cecile	30 days at \$110.00	\$ 3,300.00			
- J. C. Fox	15 days at \$115.00	\$ 1,725.00			
- W. H. Houston	15 days at \$100.00	\$ 1,500.00			
- R. B. Garrard	2 days at \$250.00	\$ 500.00			
- Secretarial	4 days at \$ 85.00	\$ 340.00			
- Travel, Telephone, etc.	\$ 850.00				
- Report (100 copies, 50 pa	ages)	\$ 250.00			
- TOTAL ,		\$11,340.00			

Gravel Subproject

• -	· •	•
- G. A. Ferguson	10 days at \$225.00	\$2,250.00
- A. G. McLellan	4 days at \$300.00	\$1,200.00
- R. Jaakson	5 days at \$250.00	\$1,250.00
- R. B. Garrard	3 days at \$250.00	\$ 750.00
- J. C. Fox	5 days at \$115.00	\$ 575.00
- W. H. Houston	5 days at \$100.00	\$ 500.00
- Secretarial	4 days at \$ 85.00	\$ 340.00
- Travel, Telephone, etc.	\$ 500.00	
- Report (100 copies, 50	\$ 250.00	
- TOTAL	\$7,615.00	

We are willing to treat the total (\$18,955.00) as an upset limit, not to be exceeded without approval.

TIMING - We are prepared to start the study as soon as it is awarded. We will complete the final report three months after initiation. Two major meetings are planned with the Municipality. One mid-way through the project to report on progress, and one at the end in order to discuss the draft report.

EXPERIENCE

Ecologistics Limited has worked on many different types of environmental planning problems in six of Canada's provinces.

Of particular relevance to this study are:

- woodlot and tree conservation studies in
 - Waterloo Lakeshore Village
 - Kitchener Beechtree
 - Bramalea Res 10
 - Pickering Highbush
 - Ottawa Niven's Woods
- environmentally sensitive area studies
 - Hamilton-Wentworth Region
 - Halton Region
 - Credit Valley Conservation Authority
- environmental input to major site plans
 - South East Ottawa City (13,000 acres)
 - Abbey Glen (2,000 acres)
 - Townsend New Community (14,000 acres)
 - Grand River South (500 acres)
 - Hidden Valley (200 acres)

- pit and quarry rehabilitation
 - Lake Ontario Cement, Erin
 - Matthews Group, London
 - Dufferin Materials, Paris
 - Consolidated Sand and Gravel, Guelph
 - Canada Cement Lafarge, Belleville
 - Flintkote, Oneida

We have, as well, a broader experience which is summarized in the following pages.

CURRICULA VITAE

Dr. D. J. Coleman

G. A. Ferguson

Dr. A. G. McLellan

Dr. R. Jaakson

J. C. Fox

C. P. Cecile

W. H. Houston

R. B. Garrard

133 Wynford Drive, Don Mills, Ontario - M3C 1K1

Tel. (416) 429-3411

June 30, 1977

Ms Margaret Buchinger City of Brampton Planning Department 24 Queen Street East Brampton, Ontario L6W 2A7

Dear Margaret:

Re: Study of Woodlot Management in an Urban Context_____

Attached are 30 collated copies of the revisions to the above study proposal, as requested by John Marshall earlier this morning.

These revisions are briefly as follows:

- a) Page 4: a clarification that woodlots would be given a priority ranking as to significance for management/conservation;
- b) Page 4: a clarification that Tree Corridors along major roads would be assessed with regard to maintenance in future road widening projects;
- c) Page 5 : further explanation of the purpose of the Guidebook and its components.

None of these revisions will affect the timing or budget for such a study and are completely in keeping with the intent and program for the study.

I shall be pleased to provide you with any further information should you require it.

Yours very truly,

Gail A. Ferguson, M.Sc. (Pl), M.C.I.P.

Manager, Toronto Office

With this inventory information, ratings of the stand potential in an urban context (recreational, large lot, small lot) can be created and recommendations given on the management of each property. The major products of the study will be:

- a) an individual report on each woodlot systematically detailing the inventory information for future reference and recommendations for management
- b) a ranking of the woodlots as to priority for preservation. This ranking will be based on a set of criteria approved by the client
- c) a map of the municipality indicating recommendations on each property
- d) a statistical summary of the information

As well, the study will provide for the identification and condition rating and significance ranking of "Tree Corridors" along major roads in the City of Brampton. Such tree lines are an important aesthetic element of the urban infrastructure. In order to maximize the maintenance of such tree lines as the City grows and as road widenings are required, a set of guidelines will be prepared to assist the planning and engineering staff in assessing each situation as it arises.

GUIDEBOOK - An important implementation aspect of tree preservation and protection is explaining the merits of the process to landowners, developers and planners. As well, the components of the process must be clearly specified so that all persons involved are fully aware of the factors involved. During this part of the study, a document will be developed outlining the benefits of vegetation in the urban context. This will include discussion and presentation on:

- aesthetic and visual benefits
- relationships and benefits to adjacent property owners (including the known property value benefit).
- benefits of vegetation to adjacent properties in terms of moderating temperature, wind, storm and sun conditions on a microclimatic scale.
- benefits of vegetation in terms of moderating air pollution conditions.
- usefulness of vegetation in moderating noise.
- the value of vegetation in maintaining wildlife, birds and other natural elements in the urban environment.

The Guidebook will follow logically from the Inventory stage of the study by explaining the study to those individuals who will be directly involved or affected by a woodlot management program in Brampton. An additional factor in the Guidebook will be to explain the replacement costs (in terms of capital expense, management and time) that would potentially be incurred by the

City in the long-term if a woodlot management program was not instituted.

The objective is to create the rationale for tree preservation.

The guidebook will be illustrated to demonstrate the major

points. It will include guidelines for urban design.

HANDBOOK - The problem with trees in the planning process is not simply recognizing their value, but providing concrete methods for protecting them during the building/construction phase. There are various techniques available. These will be compiled and presented with illustrations. Specific requirements will be suggested for the Municipality to implement in its approval process. These will be tied to the problems and situations identified in the inventory phase.

With these three elements - inventory, guidebook, handbook - Brampton will be able to optimize the use of its remaining natural vegetation.





	AUGUST Week of		-		SEPTEMBER Week of			OCTOBER Week of						
	1	8	15	22	29	5	. 12	19	26	3	10	17	24	31
MAJOR CLIENT MEETINGS		-												
Woodlot Study 1. Inventory - decide mapping methods/details - field surveys - biophysical - data compilation & analysis - priority ranking														
map preparationreport preparation														
 Guidebook/Handbook review literature/experience examine local characteristics draft guidelines - principles document preparation 					-									
GRAVEL STUDY Pop - collate existing geological info design potentials - report preparation H					-									



BY-LAW

No._____

A By-law to authorize the execution of an Agreement between The Corporation of the City of Brampton and Ecologistics Limited. (An Environmental & Recreation Study)