

Annual Report 1998

Friends of the Jock River

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Table of Contents

Item	Page Number
1. Agenda	1
2. Minutes of Annual Meeting February 18, 1998	3
3. Membership List	5
4. Leadership List	6
5. Statistical Report	7
6. President's Report	8
7. Financial Reports	
7.1 Treasurer's Report	9
7.2 Auditor's Report	9
7.3 Financial Statements	10
8. Committee Reports	
8.1 Publicity Committee	14
8.2 Membership Committee	16
9. Activity Reports	
9.1 Shoreline Rehabilitation Project	17
9.2 Spring Tree Plants	
9.2.1 Twin Elm Plant	26
9.2.2 Half-Moon Plant	26
9.3 River Cleanup Project	27
9.4 Water Sampling Project	29
10. Work Plan for 1999	31
11. Work Plan Budget for 1999	34
12. Budget for 1999	35
13. Change to the Bylaw	37
14. Nomination Committee Report	38

Agenda

1. Introductions and Welcome from the Chair
2. Adoption of Agenda
3. Adoption of the Minutes of Annual Meeting of the Membership, February 18, 1998
4. Business Arising from Minutes
 - 4.1 Guide Rail Installation
 - 4.2 Richmond Sewage System
 - 4.3 Signs at Twin Elm
 - 4.4 Frequency of Meetings
 - 4.5 Other
5. Presentation and acceptance of the Membership List
6. Presentation and acceptance of the Leadership List
7. Presentation and acceptance of the Statistical Report
8. Presentation and acceptance of the President's Report
9. Presentation and acceptance of the Financial
 - 9.1 Treasurer's Report
 - 9.2 Auditor's Report
 - 9.3 Financial Statements
10. Presentation and acceptance of the Committee Reports
 - 10.1 Publicity Committee
 - 10.2 Membership Committee
11. Presentation and acceptance of the Activity Reports
 - 11.1 Shoreline Rehabilitation Project
 - 11.2 Spring Tree Plants
 - 11.2.1 Twin Elm Plant
 - 11.2.2 Half-Moon Plant
 - 11.3 River Cleanup Project
 - 11.4 Water Sampling Project

12. Presentation and acceptance of the Work Plan for 1999
13. Presentation and acceptance of the Budget for 1999
14. Change to the Bylaw
15. Presentation and acceptance of the Nomination Committee Report
16. Election of Officers and Directors
 - 16.1 Election of President
 - 16.2 Election of Vice-President
 - 16.3 Election of Treasurer
 - 16.4 Election of Secretary
 - 16.5 Election of Director for Membership Roster and Management
 - 16.6 Election of Director for Projects and Actions
 - 16.7 Election of Director for Fund-raising
 - 16.8 Election of Director for Publicity and Public Relations
 - 16.9 Election of other Directors at Large
17. Appointment of Auditor
18. Nomination and election of Members of Nominating Committee for 1999
19. Appointment of Auditor for 1999
20. Adjournment

FRIENDS OF THE JOCK RIVER
Minutes of the ANNUAL GENERAL MEETING
Wednesday, February 18, 1998 7:30 P.M.

Chair: Brian Finch
Minutes: Rob Dale

In Attendance:

Niel Barrington, John Brummel, Ed Bebee, Chris Coupe, Rob Dale, Marvin Doran, Brian Finch, W.G. Grant, Lesley Henry, Frances Little, Ron Maybury, Ken McRae, Eric Moore, Norman Siemens, Frank Stokes, Tim van der Horn, Marla Williams.

The meeting agenda was approved.

Brian addressed the key points of the President's report. The report was approved.

Norm delivered the treasurer's report. It was accepted.

The auditor's report was accepted. No irregularities were found in the books.

Activity Reports

The spring tree plant project report was delivered and approved.

The fall tree plant project report was delivered. Erratum: White pine and white spruce were the conifers planted.

ACTION ITEM: possibility of guide rail installation to be studied to stop people from crossing signage. The report was approved as amended.

The river clean-up project report was delivered and approved. Two truckloads of garbage were hauled away in a 3-ton truck.

The water sampling project report was delivered and approved.

ACTION ITEM: Board to examine the problem of inadequate Richmond sewage system. McManus Engineering is investigating this and other problems relating to the Richmond sewage flow.

1998 Work Plan

The work plan was presented and discussed. Trail development was provisionally removed from the work plan due to lack of funding. Funding may not be required to identify fish spawning sites. The MNR could provide needed materials. The work plan was approved as amended.

1998 Budget

Brian presented the budget.

Erratum: Item No. 1 should read \$5,000. total for both plants. It is possible that some of this money may be used to prevent cattle access to the Jock River. The budget was approved as amended.

Constitution and By-Laws

Norm was thanked for his hard work on these documents.

Article 1, Section 10 of the by-laws, strike all wording after "fees". Brian motioned that the Friends accept the constitution and by-laws with one amendment. Frances seconded the motion. Tim moved acceptance. The constitution and by-laws were accepted.

Nomination and Election of Officers and Directors

Norm nominated Niel for the position of President. Niel accepted and was acclaimed by the membership.

Ken nominated Brian for the position of Vice-President. Brian accepted and was acclaimed by the membership.

Brian nominated Norm for the position of Treasurer. Norm accepted and was acclaimed by the membership.

Niel nominated Rob for the position of Secretary. Rob accepted and was acclaimed by the membership.

Norm nominated Frances for the position of Director for Membership Roster and Management. Frances accepted and was acclaimed by the membership.

Norm nominated Tim for the position of Director for Projects and Actions. Tim accepted and was acclaimed by the membership.

Norm nominated Ken for the position of Director for Publicity and Public Relations. Ken accepted and acclaimed by the membership.

The post of Director for Fundraising remains vacant.

The posts of other Directors at Large remain vacant.

Items of Concern

Tim thinks one or two individuals are disobeying signage and riding their snowmobiles over seedlings planted at Twin Elm.

ACTION ITEM: Tim to think about putting up new signs with different wording.

Frank would like to organize a canoe trip in early spring from Ashton to Munster Side Road. Members could use the opportunity to scout out this section of the river and perhaps "piggy-back" other projects onto this event. He circulated a form for those interested to sign.

There was a large discussion on the frequency of meetings needed. This was not resolved. However, it was resolved that the officers and directors and other interested parties should hold a meeting Tuesday, March 3 at the Fire Hall to discuss this and other issues.

THE MEETING WAS ADJOURNED AT 9:50 P.M.

Membership List

Members in good standing as of December 31, 1997, are:

Volunteers

W. Barclay Cormack
Robert Dale
Frances Little
Gordon Sample
Tom Osborne Wright
Marla Williams
Niel Barrington
Richard Bendall
Ken McRae

Supporter

Peter Blancher
Otto Schreiber
Wendy Kaspick
William G. Grant
Susan Springthorpe
Doug Watson
N.W. Broten

Family

Norman Siemens Family, Norman, Reta, Richard, and Julie
Joan Bakker and John Palmer
Lesley Henry and Peter Wendt
Brian Finch and Teresa Rodriques

Corporate

Dennis Brown (Coldwell Banker - Coburn Realty)
Ottawa Brass

Leadership List

Officers

President	Niel Barrington
Vice-President	Brian Finch
Treasurer	Norman Siemens
Secretary	Robert Dale
Director for Membership Roster and Management	Frances Little
Director for Projects and Actions	Tim van der Horn
Director for Fund-raising	Vacant
Director for Publicity and Public Relations	Ken McRae
Directors at Large	None

Committee Chairs

Nomination Committee Chair	Niel Barrington
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Project Leadership

Spring Tree Plant	Niel Barrington and Tim van der Horn
River Cleanup	Ken McRae
Water Sampling	Brian Finch
Twin Elm River Bank Stabilization	Tim van der Horn and Brian Finch

Statistical Report

Friends of the Jock River held meetings on:

Regular meetings

Date	Attendance
January 20	15
February 3	11
March 8	8
April 7	7
May 19	7
June 2	5
July 7	17
August 11	6
September 1	9
October 6	9
November 3	11
December 1	9

Annual Membership meeting

Date	Attendance
February 18	17

President's Report

The Friends of the Jock River can look back on 1998 with pride. Our biggest project yet, a large-scale shoreline restoration and cattle fencing project just upstream of the Twin Elm bridge, was carried out through the hard work of Tim van der Horn, Brian Finch, Norm Siemens and many others. I'm sure these members will be holding their breath come mid-April, as the spring run-off makes it's impact on the work done so far. We will see what happens and learn from this important test project.

Many water management issues in the Jock River Watershed came to the attention of the general public in 1998, most notably the Munster Wastewater issue and the Trail Road Landfill leachate problem. We had some lively debates in the Friends on the Munster Treatment options. The Region has (unfortunately, in the executive's opinion) chosen the pipeline option. While this solution may prevent any more "Munster Mishaps" reaching the Jock River, I don't believe it is in the best long-term interests of the watershed to lose millions of gallons of water year after year. Well, perhaps it's not a done deal yet.

Meanwhile, the Region's proposal for a leachate pipeline through Barrhaven has been nixed by the residents there. The leachate issue is of obvious importance to us; it is important that the Friends develop a solid position on this issue, and quickly, so we can best defend the interests of the River.

In 1998, the Friends took a giant step forward in River Stewardship as we challenged a golf course on their permit to take (virtually) unlimited quantities of water out of the River. We in the Friends know the horrifically low summer flow in the Jock River is one of the worst problems; it is so bad in fact that the Jock ceases to be a river at all and remains a series of stagnant impoundments until the fall rains come. The Friends believe there is more than enough water for everybody in the spring runoff; it is up to the user to store it till summer. Ken McRae and I will be working on this further. The Friends of the Jock River will not allow water taking that damages the River!

Friends, in the new year we will finish some old projects and we will start some new ones. We will continue to monitor water quality and we will be planting trees spring and fall. I remember reading a consultant's report on the Jock River that stated the river should have a 50-ft. wide strip of vegetation along both sides. Wouldn't that be a great millennium project for the City of Nepean and the Friends of the Jock?

Respectfully submitted,

Niel Barrington
President

Treasurer's Report

This year for the Friends was the first full year of operation. Early in the year, we decided that we should apply for charitable status. We became an official registered charity on February 18, 1998.

We have undertaken several large projects this year from a financial point of view. We received generous grants from the Regional Municipality of Ottawa-Carleton and the Ontario Ministry of Natural Resources to fund our projects. Our membership has remained small, but hard working. We have been successful given the number of volunteers available and the financial help.

We have managed to keep the expenses to a minimum, with a good number of people, including businesses donating food and other goodies for the Tree Plants and the River Cleanup.

In the coming year, we will need to spend more efforts attempting to obtain grants, raise the membership and encourage more donations from the local businesses. Together we can accomplish great things for the Jock River and its watershed.

Respectfully submitted,

Norman Siemens
Treasurer

Auditor's Report

The Auditor's Report was not available at the time of the printing of this document.

It should be available at the Annual Meeting.

Respectfully submitted,

Norman Siemens
Treasurer

Friends of the Jock River

Balance Sheet
As of December 31, 1998

ASSETS

Current

Checking		
Canada Trust Bank Account	\$	498.75
Petty Cash on hand	\$	120.00
Accounts Receivable	\$	0.00
Other Assets		
Cash advances/loans	\$	0.00
Prepaid expenses		<u>0.00</u>
Total Current	\$	618.75

Capital

Real Estate and Equipment	\$	<u>0.00</u>
Total ASSETS	\$	618.75

LIABILITIES

Current

Accounts payable (See Note 1)	\$	500.00
Accrued Liabilities		<u>0.00</u>
Total Current	\$	500.00

Equity

Balance - Beginning	\$	94.84
Add Excess (Deficiency) of Receipts Over Disbursements for the Year	\$	23.91
Balance - Ending	\$	<u>118.75</u>
Total LIABILITIES	\$	618.75

Friends of the Jock River

Statement of Receipts and Disbursements for the year ending December 31, 1998

Receipts

General

Anonymous Donations	\$	0.00
Receipted Donation		200.00
Corporate Membership		150.00
Family Membership		100.00
Supporter Membership		135.00
Volunteer Membership		<u>100.00</u>
Total General		685.00

Projects

Spring Tree Plant	\$	
Ministry of Natural Resources		1380.00
River Bank Stabilization		
RMOC Grant		3878.41
Summer River Cleanup		<u>0.00</u>
Total Projects		5258.41

Total Receipts	\$	5943.41
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Disbursements

General

Bank Charges	\$	77.74
Office Supplies		31.42
Photocopy Costs		66.32
Photographic Supplies		0.00
Photographic Development		0.00
Postage		26.10
Taxes		<u>11.71</u>
Total General		213.29

Projects

River Bank Stabilization		
Fencing	\$	655.18
Postage		9.65
Shipping and Handling		249.44
Stone		287.50
Taxes		345.37
Telephone		2.79
Toilet Rental		50.00
Travel Costs		5.00
Tree Purchase		652.35
Water Well		<u>1926.25</u>
Total River Bank Stab.		4183.53

Summer River Cleanup		
Taxes	\$	1.83
Telephone		0.45
Travel Costs		<u>25.23</u>
Total River Cleanup		27.51

Spring Tree Plant		
Office Supplies	\$	30.17
Photocopy Costs		5.30
Taxes		185.81
Telephone		0.51
Travel Costs		7.48
Tree Purchase		<u>1200.00</u>
Total Spring Tree Plant		1429.27

Water Permit Issue		
Office Costs	\$	19.98
Photocopy Costs		20.35
Photographic		2.99
Postage		9.90
Taxes		5.63
Telephone		2.38
Travel Costs		<u>4.67</u>
Total Water Permit Issue		65.90

Total Projects \$ 5706.21

Total Disbursements \$ 5919.50

Excess (Deficiency) of Receipts over
Disbursements for the Year \$ 23.91

Friends of the Jock River

Notes to the Financial Statements
for the year ending December 31, 1998

1. We received a loan from one of the members of the Friends for the sum of \$500.00. The purpose of the loan was to cover the expenses for the year. This loan will be repaid early in 1999 as soon as the grant money is received.

Publicity Committee Report

The past year has been a year of increased profile for the Friends of the Jock River. The Friend's profile was raised by several means:

1. Press Releases regarding our upcoming projects' work day events and some of the meetings were sent out to The Stittsville News, The Stittsville Weekend Signal, The Clarion, Ottawa Citizen (Our Town and Ottawa Volunteer Centre columns), Ottawa Sun, Barrhaven Independent, Manotick Messenger, The Packet, and the Ottawa-Carleton Review. Only the November 7 & 8 work days for the shoreline rehabilitation project were publicized.
2. The Press Releases resulted in reporters from some of the newspapers attending some of our work day events and then printing stories, in some cases with a photograph.
3. By erecting posters advertising projects' work day events, on bulletin boards in various stores, libraries and community centres.
4. In applying for project grants and speaking with various persons involved in government agencies, etc.
5. By placing a donated advertisement on recreation-road maps of Goulbourn Township and it's four individual communities. A copy of the maps went out to all households and businesses in Goulbourn, approximately 7800 copies. A full colour version of the advertisement was also donated and placed on a large recreation-road map display in the Richmond Area Community Centre. The advertisements give information as to what the Friends do and invites the public to help "...either as an active participating member, as a financial sponsor or by simply attending our event days." The advertisements give names and phone numbers to call for further information.
6. By becoming actively involved in some local issues affecting the Jock River watershed. Involvement included phone calls and letter writing to government public servants and elected officials by several members of the Friends. This included our Vice President, Brian Finch, making a verbal public representation on behalf of the Friends to the Planning and Environment Committee of the Regional Municipality of Ottawa-Carleton concerning the Munster Lagoons issue. This also included inviting and having representatives of various government agencies out to our meetings to discuss the issues.
7. Ken McRae wrote a long article regarding the Friends' recently acquired charitable tax status, inviting the public and local businesses to make financial, goods or services donations. The article also include extensive background information on what the Friends has done in the past year and some of the work we'll be doing in 1999. The article also invited the public to take out

memberships in the Friends and to participate in our project' work day events. The article give names and phone numbers to call for further information. The article was printed in whole in the Clarion, and printed in two parts in The Stittsville News.

8. Several hundred membership brochures were printed and made available for members of the public to pick up off the bulletin boards in stores, libraries and municipal offices. A "Thank You" to the Rideau Valley Conservation Authority for making the brochures for us.

Respectfully submitted,

Ken McRae
Committee Chair and Director for Publicity and Public Relations

Membership Committee Report

The Friends of the Jock River is still a very small organization when a person looks at the membership numbers. At the end of last year 1997, we had 17 memberships. This year the memberships have increased to 23. We have several new members, and several from last year did not renew.

The small membership has given the Friends a good core group of volunteers who are willing and able to accomplish successful projects. It is our hope that the membership will grow substantially in 1999, and allow the Friends to undertake more and larger projects.

Respectfully submitted,

Frances Little

Committee Chair and Director for Membership Roster and Management

Shoreline Rehabilitation Project

Project location:

Twin Elm (SE quadrant of the Twin Elm Bridge crossing) located between Richmond and Fallowfield Road.

Project leader:

Tim van der Horn with assistance from Brian Finch.

Project timing:

Fall 1998. The project had been planned to start in September, 1998 but there were some unexpected problems with suppliers and permits. The need for permits from the Rideau Valley Conservation Authority and Fisheries and Oceans was not discovered until early September. Both organizations were flexible and approvals were given late October/early November. Site preparation, and sourcing and cutting of cedar fence posts were done by the two team leaders through October.

The first work parties started November 7/8 although the fencing materials had still not been received. Work on the site continued each weekend and some week days into early December. The weather was cool (as expected) and possibly cut down the number of volunteers that came out. A normal or early onset of winter weather (as in 1997) would have seriously curtailed or forced the cancellation of the project entirely.

(Notes for the future:

- Find out the need for permits early.
- The permit process refines the planning process since the permit providers have considerable knowledge and contacts. Also, the process forces project planners to consider additional elements.)

Contributions for this project came from:

- Alestair and Mary Munro (owners of the land)
- Regional Municipality of Ottawa-Carleton - CEPGP grant 98-18
- Regional Municipality of Ottawa-Carleton - Forest Renewal Program (equipment rental)
- Province of Ontario, Ministry of Natural Resources, CFIP-grant
- Ontario Hydro/Evergreen Foundation, Project Regeneration (trees)
- Geosynthetic Systems (geotextile)

The project comprised four separate components:

- Shoreline stabilization with a mat
- Tree planting
- Construction of a fence
- Provision of water for cattle

Twenty-one volunteers, most of whom are members of the Friends of the Jock River, worked on the project. The full list of volunteers is given in Annex 1.

The accounting is given in Annex 2. The two parts, 1998 and Jan. 1999, must be combined. Also, the accounting does not include an additional \$285.69 for equipment rental paid for directly by RMOC-Forest Renewal Program. The total cost for the project was \$4999.72.

Shoreline Stabilization

The most eroded areas of the shoreline were selected for stabilization by a "bioengineering" process. Other areas were stabilized with shoreline trees and shrubs.

The "bioengineered" portions involved the installation of a mat composed of coconut fibre (coir) and polypropylene mesh. Three major sites and about 4 other smaller sites totalling 150 square metres were covered with the mat. All of these sites are within 700 m of the north end of the field. The tops of portions of the bank that were too steep were graded back with a back hoe and trenches dug around the perimeter. (NB: Initially, too much time was spent digging the trenches; a trench dug about 6" deep with a pick was later found to be sufficient.)

The mat was secured with 20 cm metal staples. Live poplar stakes supplemented the staples.

Small trees, either plug or bare root were planted along the bottom edge and through horizontal slits cut in the mat. For the thorough plantings, the roots and mat were secured with staples. Also, fresh cuttings from willow, Manitoba maple or poplar were pushed through the mat into the soil.

During the installation of the mat, the polypropylene mesh caught on everything, (e.g., buttons, boots) leading to some concern that animals (e.g., snapping turtles) could be caught and held in the mesh. Consequently, some of the mats were covered with a thin coat of top soil, although, the spring flood may wash it out. Grass or some other ground cover will be planted in the mats as soon as the spring flood subsides. Once the mats are overgrown, the mesh should not pose a problem. In the future, a different mat should be considered.

The specifications of the mat and some installation details are located in Annex 3.

An experimental "soft armour" type of shoreline treatment was to be installed by Geosynthetic Systems but business pressures and the eventual erection of the fence prevented its installation. The area set aside for this experimental system, approximately 30 m of shoreline, will have to be planted

with shoreline trees in the spring of 1999.

Considerable advice was obtained from Geosynthetic Systems on the selection of the bioengineering system and its installation. Their enthusiasm for the project and the provision of materials at preferential prices was greatly appreciated.

Tree Planting

Trees and cuttings were planted along approximately 600 m of the shore in the northernmost portion of the field. Most plantings were concentrated along the sloped portion of the bank, within 4 m of the water's edge. The older trees were planted primarily on the top of the bank within 10 m of the water. These trees supplemented approximately 50 trees planted in the same field earlier in the Spring.

The tree planting was augmented substantially with the insertion of live cuttings and live poplar stakes. Also, the live poplar stakes were pounded into portions of the bank that had minor sod slippage or minor wash-out.

A listing of the types of trees and cuttings is given in Annex 4.

In the spring, the planted trees will have to be checked to ensure they have not been disturbed by frost or the spring flood. Some may require staking. No protection was installed to protect the trunks against mouse damage and consideration should be given to buying and installing plastic pipe or spiral protectors in 1999. Towards the end of the project, beavers were cutting the poplar stakes and pulling out or trimming some of the newly planted trees along the shoreline. We will have to install chicken wire or other protection if the younger trees are to survive. Some of the existing mature trees may have to be protected as well.

Signs were erected along the fence to alert snowmobilers to the presence of young trees. Many of the young trees were tagged with fluorescent tape to make them more visible in the snow.

Fence Construction

Approximately 600 m (2000 ft.) of fence were installed along the shore in the northern-most portion of the field. The fence is located approximately 10 m from the low waterline. A gate opening was left in the portion adjacent to the bridge at the landowner's request to provide for snowmobile access to the shore. This gate opening should cut down damage to the new trees on other portions of the bank.

The fence chosen for the project is of a type designed to tolerate ice movement in spring flood. It has 4 strands of high strength wire under high tension between cedar posts. The cedar posts were obtained from the RMOC dump and from local stands damaged by the ice storm. Between the cedar posts, PVC "T" posts were located on 16' centres.

About 12 of the PVC posts broke during their installation leading to speculation that the odd one will not withstand the ice, as claimed. We will have to monitor the fence and replace the "T" posts as needed.

The fence is easily convertible to an electric fence.

Since the fence consists of single strands of wire, it does not have the visibility of a typical wire fence. The top strand was marked with fluorescent tape at regular intervals to make it more visible to snowmobilers and to deer. However, this is just a temporary measure. The visibility of the fence should be checked this winter and, if necessary, the PVC posts sprayed with fluorescent paint.

Approximately 400 m of the shoreline along the southern portion of the property was not part of the project. It is not nearly as damaged as the northern 600 m of the field but the shore is being denuded of trees in the same way. It is still accessible to cattle. While the cattle should congregate towards the north end of the field where the nose pump is being located, this portion of the field could face increased damage from cattle if not protected as well. A RMOC - CEGP grant (approved) will allow us to complete the fence and plant trees along this shoreline in 1999.

Provision of Water for Cattle

A well was drilled in the NE corner of the field near the gate into the field and near the small barn on the property. At 85', the well was much deeper than anticipated and was more than double the planned cost. The nose pump and the materials for the surrounding pad for the nose pump were not purchased because of the cost overrun.

A 4 m x 4 m x 30 cm (12' x 12' x 1') foundation was dug for the pad and lined with geotextile. There was no further work on the pad. In the spring of 1999, the pad will be completed with crushed stone topped with seconds, end-of stock or otherwise scrounged interlocking stones. **(NB: Completion contingent on finding funds.)** The interlocking stone surface with a slightly domed construction and a double soldier course around the perimeter will withstand water run-off from the pump, freeze/thaw cycles and cattle hooves better than a concrete pad. A concrete pad would crack badly and would be much more expensive.

Items for the Future

1. Erection of two signs: one recognizing the work of the Friends of the Jock River and the input of the contributors to be placed near gate to the property (near the Twin Elm bridge); the other on Richmond Road to make passers-by aware of the project and to have them watch the shoreline grow.
2. Check planted trees as soon as the spring flood has subsided. Purchase and install supports as needed. Purchase and install tree protectors (against mice and beavers).
3. Purchase the nose pump and complete the pad.
4. Install temporary gate (recycled materials?) at north end of fence.
5. Plant shoreline trees in the area originally set aside for the experimental system. This involves

approximately 30 m of shoreline.

6. Remove the several piles of stones and one of soil, and place the materials around the mature trees showing erosion around the root areas.
7. Spray the PVC "T" posts with fluorescent paint.
8. After the flood subsides in the spring, plant grass or some other ground cover in the coconut fibre mats.

Respectfully submitted,

Tim van der Horn and Brian Finch
Project Leaders

Annex 1

Project Workers

Project leader/assistant:

Tim van der Horn (and son, Tiemen)
Brian Finch

Volunteers (listed alphabetically)

Barclay Cormack
Chris Coupe
Rob Dale
Al Eaton
Lesley Henry
John Hiley
Bruce Lawrence
Frances Little
Eric Moore
Alestair Munro
Amy Munro
Mary Munro
John Palmer
Lyn Preston (and Elvis, the dog)
Otto Schreiber
Norman Siemens
Frank Stokes
Marla Williams
Ron Maybury

(apologies to any not recorded)

Annex 2

Project Finances

The bulk of the expenses were completed in 1998. Due to invoices arriving late, certain items will be shown on the financial records for 1999.

The following is a complete costing of the project

Information for 1998

Receipts

RMOC Grant		<u>3878.41</u>	
			3878.41

Expenses

Equipment Rental	\$	269.30	
Fencing		655.18	
Postage		9.65	
Shipping and Handling		249.44	
Stone		287.50	
Taxes		361.76	
Telephone		2.79	
Toilet Rental		50.00	
Travel Costs		5.00	
Tree Purchase		652.35	
Water Well		<u>1926.25</u>	
Total			4469.22

Information for 1999

Receipts

OMNR Grant	\$	820.00	
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Expenses

Geosynthetics	\$	359.00	
Lumber		43.20	
Photographic		32.93	
Taxes		66.63	
Tools		8.94	
Travel Costs		<u>4.80</u>	
Total Fall Tree Plant			515.50

Annex 3

Bioengineering Mat

Mat: -North American Green C 125; 2m wide x 25 m long
-coconut fibre (coir) mat with polypropylene mesh on both sides and sewn through with polyester

Installation:

- trenched perimeter
- mat secured with 20 cm (8") staples on 30 cm (1 ft.) intervals into trench walls around perimeter
- minimum overlaps of 15 cm (6") (upstream over downstream portions) secured with 20 cm staples on 30 cm intervals
- stapling along shoreline and upstream edges supplemented with 5 cm x 2.5 cm x 60 cm (2" x 1" x 2') sharpened spruce stakes
- centre portion of mat secured with 20 cm staples in rows 45 cm (18") apart (staples not staggered). Some staples replaced with wood (live or other) stakes
- stapling on top edge supplemented with 60 cm (2') freshly cut poplar stakes (live stakes)
- shoreline shrubs and trees were planted in bottom trench
- the trenches were filled in all around and stones (20 cm - 30 cm (8" - 12") in size) were placed along the bottom 30 cm - 60 cm (1' - 2') portion and upstream sides of the mat
- where available, the original sod was stapled and staked into the top portion of the trench

Annex 4

Trees and Shrubs

Potted trees:

- appr. 5 spruce (1 m) (nursery stock)
- appr. 11 Manitoba maples (2 m) (nursery stock)
- appr. 11 ash (2 m) (nursery stock)
- 23 cedar (1 to 1 ½ m) (nursery stock)

Plugs or bare root:

- appr. 70 speckled alder plugs - *Alnus rugosa*. Almost all were doubles, some of which were split and planted individually (nursery stock)
- appr. 70 pussy willow - *Salix discolor* (nursery stock)
- appr. 70 heartleaf willow - *Salix eriocephala* (nursery stock)
- misc. (donated)

Live stakes:

- 200-300 poplar stakes from trees disposed of at Trail Road dump and from miscellaneous construction sites

Live cuttings:

- several hundred black willow cut from existing trees on property
- several hundred poplar and hybrid poplar from Trail Road dump and from construction sites
- appr. 100 Manitoba maple cut from existing trees
- appr. 100 misc. unknown from trees disposed of at Trail Road site On May 3, a dozen volunteers gathered at Richmond to plant Red, White and Jack Pine seedlings on the Jock River bank just northeast of Eagleson Road, near Richmond.

Spring Tree Plant

In the first week of May, the Friends of the Jock River Spring Tree Plant was held at two locations.

Twin Elm Tree Plant

At Twin Elm, a group of enthusiastic volunteers, headed by Tim van der Horn, put 1450 trees into the ground. This plant was notable for the number of species planted in an effort to build more biodiversity along the river. The species included Red and White Pine, White Cedar, White Spruce, Red Dogwood and soft Maple.

Kudos to Tim van der Horn for organizing this important work

Half-Moon Bay Plant

On the first Saturday in May, the Friends of the Jock River organized a tree plant at Half-Moon Bay utilizing the energies of Scouts Canada. Approximately 150 Scouts and their families showed up and were able to put in over 1000 Pine, Cedar and Spruce seedlings. On Sunday, Niel Barrington and Robert Dale returned with friends and families to put in a couple 100 more Cedar and Pine at Jockvale. These areas along the lower Jock River are slowly returning from field to bush. Most naturally colonizing species like Ash and Poplar have sprouted; the addition of various coniferous species should make for a great mixed forest in the future. However, the Friends must give some thought to maintenance as the survival rate of our seedlings planted over the last few years runs as low as 25 percent in some areas and much higher in other areas. It should be noted some of this mortality in the seedlings may be due to the many weather extremes we have experienced.

See you on site this spring! It is your last chance to plant trees this century!

Respectfully submitted,

Niel Barrington
Project Leader

River Clean-up Day

The Friends of the Jock River carried out a very successful second annual clean up on a beautiful Saturday, May 23. Approximately 17 volunteers participated.

In addition to cleaning up in and along the river in Richmond, we also cleaned up in and along a major part of the Marlborough Creek, a tributary of the Jock flowing through the Richmond Conservation Area.

Garbage cleaned up included an old car, a freezer, a dishwasher, a very heavy metal bath tub, numerous pieces of scrap metal, pop cans, bottles, broken glass, plastic bags, etc. We cleaned up a very substantial amount.

The Friends thanks the Township of Goulbourn, the Rideau Valley Conservation Authority (RVCA), and the Ontario Ministry of Natural Resources (OMNR) for their assistance in making this cleanup a success.

The Township of Goulbourn helped in advertising the event, arranged for the use of dumpsters for the garbage collection and supplied a truck and driver for the day to ferry garbage collected by the volunteers to the appropriate dumpster collection point. Thank you Robert Haller, Clerk of Goulbourn Township.

The RVCA and the OMNR both supplied equipment such as hip and chest waders and pikes. OMNR also supplied a boat for the day and the RVCA also supplied a truck and driver volunteer for the day. Thanks to Lynn Preston of the RVCA.

We also thank the many businesses that donated goods and services to aid our efforts. Carleton Pumping again supplied a portable toilet at our base site for the day. Canadian Waste Services supplied two garbage dumpsters and Osgoode Recycling donated a dumpster for the recyclable metal materials. Lorne Brown Electric again donated its backhoe and time to haul out the really large and heavy stuff. Thanks a lot Lorne.

Lunch, refreshments, and garbage bags were supplied by six other Richmond "Home Town Proud" businesses: the Richmond Bakery - terrific donuts and cookies; Lennstrom's Your Independent Grocer; McRae Brothers Store; and those wonderful pizzas from Milano Pizzeria, Royals Restaurant Dining Lounge and Cousin Vinny's Pizza. Thank you all.

Thanks to our Friend's Treasurer Norm "I Never Touch The Stuff" Siemens for making the morning coffee. My heart is still fluttering. STRONG STUFF. Thanks also to our own Friend's President Niel "I Got A Soaker" Barrington for bringing his big canoe.

Thanks lastly to all the volunteers, both members of the Friends and non-members, who made the cleanup a success.

The only shadow on the event was that the number of volunteers was down considerably from our first cleanup. I think this was due to our having this cleanup in May instead of August, as was the case for the first cleanup. In 1999, we'll go back to an August date when people aren't busy cleaning up their own properties and plant gardens.

Respectfully submitted,

Ken McRae
Project Leader

Water Sampling Project Report

The water sampling program was started in 1997 to assist the RVCA in its water testing program. The 1998 program provided 10 volunteers (members of the Friends and other interested individuals) to take monthly water temperature and water samples at 19 sites (up from the 13 sites in 1997) through the summer and fall. RVCA provided the sampling equipment and collected the samples from two drop-off points. RVCA summer students and RMOC sampled the same sites between the Friends' sampling times. The collected samples are tested for bacteria (E. Coli.), nitrogen, phosphorus and suspended solids by the RMOC with RVCA covering the cost of testing.

The testing sites along the Jock and its tributaries were chosen by RVCA to correspond to baseline sampling sites from past years.

The results compiled and analysed by the RVCA show the data to be similar or slightly higher than past years results. As before, the data are characterized by very large swings (spikes) in all tested values with the results for the tributaries tending to be much higher than the main river. Significant swings are expected for smaller watercourses. Bacteria values often exceed provincial guidelines recommended for recreational purposes. Total phosphorus and nitrogen were higher than recommended values throughout the watershed.

From both RVCA's and my (limited) analysis, no trends or direct causes could be deduced other than: increased temperature and low flow are problems throughout the watershed in summer (no surprise); and, populated and farmed areas are affecting the health of the river (again, no surprise).

In general, the data show that the upper end of the river is in better shape than the bottom part. Some tributaries, for example, Flowing Creek, are in poor shape.

In the Spring, the RVCA mobilized the volunteers for the upper part of the Jock to provide supplemental sampling after the manure spill near Munster Hamlet.

In the Fall, RVCA conducted an invertebrate survey with the assistance of some of the water sampling volunteers. The study collected the "bugs" from the river bottom and classified them using simple diagrams of body shapes into groups of invertebrates that can exist in relatively polluted, moderately polluted or unpolluted water. Populations from all three groups were well represented indicating that the river, even in its lower reaches, is in good condition, possibly in better condition than most had expected.

Conclusions:

The continued sampling of the Jock River is absolutely critical in monitoring the health of the watershed. A baseline sampling program is necessary as a measure of the effectiveness of other programs the Friends (or others) might have to improve the health of the Jock River watershed.

Invertebrate surveys should be conducted at different times through the coming year, although the nature of the collection process would preclude collection in higher flows.

Respectfully submitted,

Brian Finch
Vice-President

Proposed Work Plan for 1999

The following work plan was derived from discussions at past meetings of the Friends. It is also based in part on the grants that have been applied for, either accepted or anticipated.

The following projects have not been ranked:

1. Completion of the Twin Elm (Munro property) project:

Several aspects of the project (listed in the project report for the first phase - 1998) need to be completed. Several points are minor and are more in the nature of aiding memory.

- a. Erection of two signs: one recognizing the work of the Friends of the Jock River and the input of the contributors to be placed near gate to the property (near the Twin Elm bridge); the other on Richmond Road to make passers-by aware of the project and to have them watch the shoreline grow.

Signage recognizing the contribution of the RMOC was a condition of the RMOC - GEPGP grant. Signage recognizing the other contributors and the work of the Friends is an important courtesy and good education tool.

- b. Check planted trees as soon as the spring flood has subsided. Purchase and install supports as needed. Purchase and install tree protectors (against mice and beavers). The cost is minor and funds from the 1999 RMOC grant (fencing/forestation of the rest of the shoreline) could be used.
- c. Purchase the nose pump and complete the pad. **Funding has not been obtained.** Securing the funds is an immediate priority. The cost should be in the range \$600 - \$700.

We should aim for completion in the Spring.

- d. Install temporary gate (recycled materials?) at north end of new shoreline fence. Alestair Munro may have access to the materials.
- e. Plant shoreline trees in the area originally set aside for the experimental system. This involves approximately 30 m of shoreline. The few trees required could come from the 1999 RMOC grant.
- f. Remove the several piles of stones and one of soil, and place the materials around the mature trees showing erosion around the root areas. Although not specifically stated in the permit for the project, removal of these materials is believed to be a RVCA requirement. Several volunteers on the project suggested involving the Scouts.

- g. After the flood subsides in the spring, plant grass or some other ground cover in the coconut fibre mats to lock up the polypropylene mesh. Manotick Home Hardware was approached in the Fall of 1998 and has offered miscellaneous grass seed from split packages.

Funding has been obtained from the RMOC through its Community Environmental Project Grants Program (GEPGP) to complete the fence along the remaining portion of the shoreline and to plant trees in the shoreline margin. This part of the field comprises the southern-most portion of the property. A key component of the project will be the protection of the trees from the beavers and other rodents. Project grant is for \$1,800.

2. Tree Planting

Funding of approximately \$1,600 has been requested from Nepean under its "grants to voluntary organizations" program. Under this grant proposal, the planting area would be in Nepean. We have proposed the area of the Jock between the Greenbank and Cedarview bridges. Should this grant application fail (NB: one major criterion is a Nepean membership base), a direct appeal to Nepean Parks and Recreation will be made.

3. Tagging of Fish

A proposal has been presented to the Ontario MNR to determine fish habitat in the Jock. A request has been put forward under CFIP to fund the project to catch the fish, implant them with radio devices and to track them with borrowed receivers. The identification of principal fish range, particularly through the low flow periods in the summer, would help in protecting the fish. In particular, the information will be an important tool in evaluating future requests for removal of water from the Jock and it will be a key element in involving the federal Department of Fisheries and Oceans in the Jock issues.

4. Installation of a Water Flow Meter On Upper Jock

This possible project is a fall-out of the issue of the water removal permit requested by the River Bend Golf Course. Discussions have been held with Goulbourn to fund a meter to be installed in the upper part of the Jock. If funded, the location would have to complement and be planned in conjunction with the RVOC's planned water flow meter site at the Frank Town Road bridge (immediately below the River Bend Golf Course).

5. Water Sampling

This is the continuance of a project that started in 1992 to assist the RVCA in its water testing program. It is assumed at this stage that the RVCA will continue to fund the testing at the 1998 level.

6. Education

This project is of a continuing nature. It educates the public to the benefits and features of a healthy Jock River and, at the same time, it promotes the activities of the group (both past and planned).

We plan to have displays and booths at several community events such as the Richmond Fair and Sportsman's shows.

At tree planting and other work sites, signs will be put up to acknowledge the work of the Friends, volunteers and sponsors, and to identify the boundaries of the sites. Signs could be put up to mark river access sites, features of interest, etc.

7. Garbage Clean-Up

Funding has been obtained through a RMOC-CEPGP grant (\$100) for a garbage clean-up. Since earlier clean-ups have been in the Richmond area, it is suggested that the portion of the river between Richmond and River Bend Park be worked on. This portion of the river will require more work from boats than in past clean-ups.

Respectfully submitted,

Brian Finch
Vice-President

Proposed Work Plan Budget for 1999

The following budget is proposed and is based in part on the work plan.

1.	Completion of Twin Elm Project		
	Erection of two signs	\$	500
	Planted tree maintenance		300
	Nose pump and pad		700
	Temporary Gate		200
	Shoreline trees		100
	Removal of Stones		0
	Plant Grass		0

		\$	1800
2.	Tree Planting	\$	1600
3.	Tagging of Fish	\$	4000
4.	Water Flow Meters	\$	1000

Note that this covers our expenses in getting the meters installed. The actual cost of the meters is not included, nor is the annual maintenance cost.

5.	Water Sampling	\$	0
6.	Education	\$	1000
7.	Garbage Clean-Up	\$	200

Respectfully Submitted,

Norman Siemens and Brian Finch

Full Budget for 1999

Income		1998 Budget		1998 Actual		1999 Budget
General						
Anonymous Donations	\$	0.00	\$	0.00	\$	0.00
Receipted Donations				200.00		300.00
Corporate Membership		400.00		150.00		300.00
Family Membership		200.00		100.00		200.00
Supporter Membership		180.00		135.00		200.00
Volunteer Membership		<u>420.00</u>		<u>100.00</u>		<u>200.00</u>
Total General		1200.00		685.00		1200.00
Projects						
Spring Tree Plant	\$	2000.00	\$	1380.00		1600.00
Fall Tree Plant		2000.00		0.00		
Cattle Access to Jock at Twin Elm		4000.00		3878.41		
Completion of Twin Elm						1800.00
Wetlands Improvement		5000.00		0.00		
Water Sampling		5000.00		0.00		0.00
Water Flow Meters						1000.00
Identification of Jock River land owners		100.00		0.00		
Education		1000.00		0.00		1000.00
Garbage Clean-up		300.00		0.00		200.00
Trail Development		5000.00		0.00		
Tagging of Fish						4000.00
Identification of Fish Spawning Sites		<u>500.00</u>		<u>0.00</u>		<u>0.00</u>
Total Projects		24900.00		5258.41		9700.00
Total Receipts	\$	<u>26100.00</u>		<u>5943.41</u>		10900.00

	1998 Budget	1998 Actual	1999 Budget
<u>Disbursements</u>			
General			
Advertising	\$ 100.00	\$ 0.00	\$ 100.00
Bank Charges	100.00	77.74	100.00
Books and Subscriptions	100.00	0.00	100.00
Dues and Membership	100.00	0.00	100.00
Office Supplies	400.00	31.42	200.00
Photocopy Costs	100.00	66.32	100.00
Photographic Supplies	100.00	0.00	100.00
Photographic Development	100.00	0.00	100.00
Postage	100.00	26.10	100.00
<u>Taxes</u>		<u>11.71</u>	<u>100.00</u>
Total General	1200.00	213.29	1100.00
Projects			
Spring Tree Plant	\$ 2000.00	\$ 1429.27	\$ 1600.00
Fall Tree Plant	2000.00	0.00	
Cattle Access to Jock	4000.00	4183.53	
Completion of Twin Elm			1800.00
Wetlands Improvement	5000.00	0.00	
Water Sampling	5000.00	0.00	0.00
Water Flow Meters			1000.00
Identification of Jock River land owners	100.00	0.00	
Education	1000.00	0.00	1000.00
Garbage Clean-up	300.00	27.51	200.00
Water Permit Issue		65.90	
Trail Development	5000.00	0.00	
Tagging of Fish			4000.00
Identification of Fish Spawning Sites	<u>500.00</u>	<u>0.00</u>	
Total Projects	24900.00	5706.21	9700.00
Total Disbursements	\$ <u>26100.00</u>	<u>5919.50</u>	10800.00
Excess (Deficiency) of			
Receipts over			
Disbursements for the Year	\$ <u>0.00</u>	<u>23.91</u>	100.00

Change to the Bylaws

When the Friends of the Jock River applied to obtain status as a Registered Charity by Revenue Canada, the Constitution and Bylaws of our organization were reviewed by Revenue Canada.

Revenue Canada granted the Friends of the Jock River charitable status, on one condition, that one bylaw be removed.

This item is

“No property, real or otherwise, whose value exceeds \$10,000, may be purchased or sold without the approval of the Membership.”

This item in the bylaws is to be removed because our application for charitable status stated that we would not own real property exceeding \$10,000.

Therefore, I

MOVE, that Article 6, Item 4, be removed from the Bylaws of the Friends of the Jock River.

Respectfully submitted,

Norman Siemens
Treasurer

Nomination Committee Report

Board of Directors

President	Niel Barrington
Vice-President	Brian Finch
Treasurer	Norman Siemens
Secretary	Robert Dale
Director for Membership Roster and Management	Frances Little
Director for Projects and Actions	Tim van der Horn
Director for Fund-raising	None
Director for Publicity and Public Relations	Ken McRae
Directors at Large	None

The Nomination Committee would submit this incomplete list of nominations to the membership and would at the same time solicit nominations from the membership. The procedure for making further nominations is: Determine if the person that you want to nominate is a member, Determine if the person is willing to let their name stand for the chosen position, and Submit the nomination in writing to the Chairman of the Nomination Committee with the two supporting signatures of members.

Respectfully submitted,

Niel Barrington
Committee Chair