2010 Annual Report
www.greysauble.on.ca
The 2010 Malcom Kirk Environmental Award was shared this year with Merle Gunby and Bruce Davidson. Pictured is Deb Shaw of Bayshore Broadcasting presenting the award to Merle Gunby, Grey Sauble Conservation Arboretum Alliance. The Malcolm Kirk Environmental Award is presented to those that make an outstanding contribution to the environment.
Haines Dam Leak
An annual inspection of the Haines Dam on the Beaver River in Clarksburg in 2009 revealed a leak through the earth embankment on the north side of the dam. Water was moving through the embankment from the upstream side of the dam and exiting on the downstream side. The leakage is due to a process known as piping which is caused when water infiltrates the earth embankment and forces soil particles through the bank creating a hole through it. Over time the process accelerates as more soil is carried through the bank and the hole gets larger. Eventually the bank could fail allowing the flow of the river to bypass the dam.

A study by the consulting firm Hatch Ltd. was commissioned to investigate the cause of the leak and to propose solutions to repair the problem. The cost of the study was approximately $28,000. The study report recommended replacement of the bank with a new embankment using appropriate soil material that would resist the movement of water through it. Repair to the concrete wing wall on the upstream side of the dam is also proposed to prevent water from moving under the wall. The estimated repair cost including engineering design and construction supervision is approximately $100,000.

Ice Management
In early January frazil ice accumulated in the river channel in the Village of Clarksburg on the Beaver River. Frazil ice forms when snow falls on cold open water during periods of cold weather. The snow turns to slush when it hits the water. When the slush hits an obstacle in the river or reaches a point where the river gradient flattens and the river flow slows down, it sticks to the obstruction or to the bottom of the river where it freezes in place causing an ice jam.

In order to prevent the accumulation of ice from causing a blockage in the river that would result in flooding within Clarksburg, an excavator was employed to remove some of the ice from the river at the downstream end of the village. The machine worked through January 6th to 8th and again on the 12th. Milder weather after January 12th reduced the production of frazil ice in the river alleviating the possibility of flood problems. No significant flooding occurred this year.

In addition to the ice removal, further work was done to extend the access road along the river bank that is used by the excavator to reach the river ice. The road was extended a further 40 metres upstream from the previous location of the access.

The cost of ice removal and access improvements was $8,458. The cost is covered by the Town of The Blue Mountains and by a grant of 50% from the Province of Ontario through the Ministry of Natural Resources.

Owen Sound Mill Dam Concrete Repair
Inspection of the dam has revealed several areas of the structure where concrete has failed. The abutment between the two main sluiceway gates has begun to break away resulting in a leak of water through the concrete. Concrete has also broken away around the railings in several locations and surface erosion of the concrete in the spillways has occurred in several locations.

The consulting firm Genevar was hired to prepare an assessment of the concrete conditions on the dam and to provide proposed repair works. The cost of the study was approximately $9,500.

The report will be used to establish priorities for repair and set future budgets for the work.

Monitoring
Over the past ten years, Grey Sauble staff have been monitoring three major components that assist in evaluating our watershed health:

Benthic Monitoring - 30 sites throughout the watershed have samples collected annually using specialized nets. These samples include insect larvae, worms, crayfish and other organisms (larger than 0.5 mm) that live in the stream bed. With the aid of a microscope, staff identify these specimens and use a scoring system called “BioMAP” (Biological Monitoring and Assessment Program) to evaluate the quality of the water. This protocol scores specimens based on different water quality conditions required for their survival. The presence (or absence) of some of these specimens in a sample can be used to classify water quality as good, fair or poor.

Surface Water and Ground Water Quality - Partnering with the Ministry of Environment (MOE), Grey Sauble monitors 10 surface water sites and 10 groundwater monitoring wells. The surface water sites are sampled 8 times each year and submitted to MOE for chemical analysis. The groundwater sites have water level loggers that are downloaded 4 times each year. In the fall, water samples were taken from each well and submitted to the Ministry of Environment for analysis of water quality.

Thermal Stream Classification - During the warm summer months, small creeks and streams should be cold and larger watercourses should remain cool. Obtaining water temperatures, can help classify systems as “cold water” (support brook trout), “cool water” (brown trout, rainbow trout) or “warm water” (baitfish, bass). Staff and volunteers regularly take water temperatures throughout the watershed as part of this monitoring program.

Data Collection - During staff site visits and with the help of volunteers, other data is collected at each streamcrossing. The presence of fish, the type and size of water crossing, description of flow, land use activities and other observations that describe water quality and fish habitat are all georeferenced and recorded in a database. This data is linked to our GIS maps for easy reference. The collection of this data has proven to be a powerful tool for the review of planning and permit applications.
Regulation 151/06 Mapping
Developments are underway to improve water feature mapping, including watercourses and wetlands. Standards are being set out by the Ministry of Natural Resources for collecting and recording this information. The improvement of this data is well underway and is a continuous work in progress at Grey Sauble Conservation. This has helped greatly in improving “Development, Interference with Wetlands and Alteration to Shorelines and Watercourses Regulation 151/06” mapping which continues to be updated on a yearly basis.

GPS & Grey Sauble Conservation Trails
Grey Sauble Conservation staff were trained by the GIS department on GPS units and all of the trails on Grey Sauble lands have now been GPS'ed with submeter GPS units and updated within our GIS system.

Information Management Plans and Policies
Agreements are being developed to move forward with GIS and Information Management as key services in the delivery of Conservation Authority business functions. Discussions are in place to develop official Information Management plans and policies at both Conservation Ontario and individual Conservation Authority levels. These plans will focus on such things as data custodianship (what data is who’s responsibility), funding, standards, the importance of IM in retaining “institutional memory” (so that when people retire, the information does not leave with them).

Orthophotography
GIS staff has been a member of the steering committee for the Southwestern Ontario Orthophotography Project. This committee has overseen the acquisition of new aerial photography for all of Southwestern Ontario. The images were flown in the spring of 2010 and are at a resolution of 20 cm; meaning one pixel in the image is 20 cm on the ground. This new imagery will allow for improved, more accurate mapping of base features such as roads, watercourses, wetlands, etc. and result improvements in all aspects of mapping and spatial analysis in the Grey Sauble Watershed. Grey Sauble Conservation will receive the images in the summer of 2011.

Development, Interference with Wetlands and Alteration to Shorelines and Watercourses Regulation 151/06
Ontario Regulation 151/06 requires a permit be obtained from our office if you are proposing development (including construction, the placement, grading and/or removal of fill) on or in proximity to the following:
- Rivers, streams and watercourses including adjacent valleylands
- Wetlands and other areas where development could interfere with the hydrologic function of a wetland
- Adjacent or close to the shoreline of Lake Huron, Georgian Bay and inland lakes and hazardous lands

The purpose of the regulation is to ensure the proposed work does not affect the control of flooding, erosion, dynamic beaches, pollution or the conservation of land.

Plan Review and Permit Activities for 2010

The number of applications reviewed in our watershed municipalities:

<table>
<thead>
<tr>
<th>Municipality</th>
<th>Plan Input and Review</th>
<th>Regulation 151/06</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arran-Elderslie</td>
<td>16</td>
<td>10</td>
<td>26</td>
</tr>
<tr>
<td>Chatsworth</td>
<td>43</td>
<td>17</td>
<td>60</td>
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<tr>
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<td>84</td>
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<td>53</td>
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<tr>
<td>Town of The Blue Mountains</td>
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<tr>
<td>Reviews for Non-member Municipalities</td>
<td>28</td>
<td>5</td>
<td>33</td>
</tr>
</tbody>
</table>

Notice that some photos are with “leaf off” (taken in the spring before the leaves appear) and the other photo with “leaf on”.

Improvements of Aerial Photography
Above photo taken in 1978
Below photo taken in 1991
Bottom right photo taken in 2006
The photo - Grey Sauble Administration Centre

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Orthophotography
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<td>Town of The Blue Mountains</td>
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<td>69</td>
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<td>5</td>
<td>33</td>
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</table>
New Arboretum Pavilion at Grey Sauble Administration Centre
The new Arboretum Pavilion is a barrier free 30’ x 70’ outdoor pavilion with 2 washrooms located at the Administration Centre on Inglis Falls Road. The Pavilion is considered to be the focal point of the Inglis Falls Arboretum. The pavilion has been designed to accommodate local school groups that regularly visit the arboretum to take part in outdoor education classes. The pavilion will also be used by the “The Great Outdoors Summer Day Camp” and will provide a safe place to gather from the elements. Lastly, the pavilion will host many special events and provide a space for use by the general public.

The construction of the Arboretum Pavilion was made possible by the generous contributions of our community partners. The Grey Sauble Conservation Foundation was the first contributor on board in the spring of 2009 with a contribution of $5,500. In June 2009, the Optimist Club of Sydenham and District and the Arboretum Alliance received financial assistance from the Ontario Trillium Foundation in the amount of $39,100 for the Arboretum Pavilion. Grey Sauble Conservation contributed $46,000 to the pavilion project. Another long time Arboretum supporter, the Grey County Gardeners donated $1,000 to the pavilion project. This project would not have happened without the vision and hard work of the Arboretum Alliance volunteers.

Bognor Marsh Management Area, Boardwalk Facelift
Financial assistance was received from the Government of Canada Recreation Infrastructure Canada (RinC) Program and Ontario, Recreation Program (REC) to replace the floating walkway and a section of boardwalk at Bognor Marsh. Matching grant dollars were provided by the Grey Sauble Conservation Foundation. The much needed repairs will ensure that school groups and the general public can continue to safely enjoy the natural surroundings of Bognor Marsh. The total cost of the project was $23,000.

The Challenge of Keeping Everything Maintained
Grey Sauble Conservation manages 11,450 hectares (28,292 acres) of land which equals to a lot of work to keep the areas well maintained. Viewing wall restoration work was carried out at Inglis Falls Conservation Area and Eugenia Falls Conservation Area in 2010. The repair costs were just over $9,000, with funding made possible by the Grey Sauble Conservation Foundation.

Forest Management Activities
Our land holdings of 11,450 hectares (28,292 acres) of land, 6,556 hectares (16,200 acres) have been designated by the Grey Sauble Conservation Forest Management Plan for sustainable forest management activities.

<table>
<thead>
<tr>
<th>Property</th>
<th>Compartment</th>
<th>Operation</th>
<th>Saw-logs</th>
<th>Fuel-wood</th>
<th>Area (acres)</th>
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<td>Skinner’s Bluff</td>
<td>146</td>
<td>Tops</td>
<td>-</td>
<td>75</td>
<td>Previous operations</td>
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<tr>
<td>Pottawatomi</td>
<td>127</td>
<td>Stand Improvement</td>
<td>-</td>
<td>61</td>
<td>15</td>
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<td>Spey River</td>
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<td>Tornado Damage</td>
<td>4,999</td>
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<td>Stand Improvement</td>
<td>89,920</td>
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<td>Stand Improvement</td>
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<td>20</td>
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<td>Stand Improvement</td>
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<td>821</td>
<td>125</td>
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<tr>
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<td>Stand Improvement</td>
<td>80,065</td>
<td>98</td>
<td>70</td>
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<tr>
<td>Kolapore Uplands</td>
<td>92</td>
<td>Stand Improvement</td>
<td>94,085</td>
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<td>Kolapore Uplands</td>
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<td>Stand Improvement</td>
<td>8,854</td>
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<tr>
<td>Totals</td>
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<td></td>
<td>382,421, 1,808, Acres, 460</td>
</tr>
</tbody>
</table>

Trees planted in Grey Sauble Conservation’s Watershed

Trees Ontario - 50 Million Tree Program
- 39 projects for private landowners - 243,375 trees planted
- 2 projects for Grey Sauble Conservation - 11,725 trees planted

Grey Bruce Forestry Service Tree Planting Program
- 4 projects - 5,495 trees planted

Over the Counter Tree Sales
- 142 tree orders - 44,362 trees sold

Arbour Day Tree Seedling Sale
- 8,316 trees and shrubs sold

Landscape Stock Sales
- 65 tree orders - 2,589 trees sold

Tree Spraying Program
- 43 projects - 251,780 trees sprayed
- 1 project - Coco discs placed around 800 trees

Other Projects
- 37 plans prepared and/or approved for the Managed Forest Tax Incentive Program (MFTIP)
- 1 tree marking project
- 1 monitoring project

Trees Planted in Our Local Municipalities

<table>
<thead>
<tr>
<th>Property</th>
<th>Acres</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arran-Elderslie</td>
<td>5,000</td>
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<td>The Blue Mountains</td>
<td>7,300</td>
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<tr>
<td>Chatsworth</td>
<td>95,355</td>
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<tr>
<td>Georgian Bluffs</td>
<td>65,220</td>
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<tr>
<td>Grey Highlands</td>
<td>48,490</td>
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<tr>
<td>Meaford</td>
<td>63,415</td>
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<td>Owen Sound</td>
<td>4,350</td>
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<tr>
<td>South Bruce Peninsula</td>
<td>25,930</td>
</tr>
<tr>
<td>TOTAL Trees Planted</td>
<td>315,060</td>
</tr>
</tbody>
</table>

Don’t miss our Tree Seedling Sale
Saturday, April 30, 2011  8:00 am - 12:00 noon
at the Grey Sauble Administration Centre on Inglis Falls Road
(see ad on back for further details)
This was the first year for the Bruce Grey Forest Festival. The Bruce Grey Forest Festival guided hike around the mill ponds and then down into the Falls Filtration Plant. Many people participated in the Open on June 5 and 6th unlocking the doors of the Inglis Foundation. Grey Sauble Conservation participated in Trails Working with Conservation Ontario and Ontario Heritage that work hard all year planning this event. The key to our success along with our stakeholder groups is our precious resource, water! Our 150 plus volunteers are Two thousand students attended the event to learn about resource management, species at risk, climate change, conservation and stewardship. The festival took place at the Allan Park Management Unit located at Allan Park.

Wildwater Program
The spring ice water safety program visited 15 schools and taught 900 Grade 4 and 5 students in the Grey Sauble Conservation Watershed. This year, the program was financially supported by the Grey Sauble Conservation Foundation and the Community Foundation Grey Bruce.

The Great Outdoors Day Camp
Grey Sauble Conservation offers an eight week summer day camp (Mon- Fri) for children to explore the Great Outdoors. “The Great Outdoors Day Camp” is for children ages 7 to 12 and is limited to 24 children per day. This year, 200 children took part in themed weeks as well as, hiking, games, water activities and crafts. As a one week pilot project, The Great Outdoors Day Camp operated in Clarksburg.

Young Naturalists Club
A cooperative program with the Grey Sauble Conservation and the Owen Sound Field Naturalists, children ages 6-12, take part in the Young Naturalists Club. The Young Naturalists Club was successful in obtaining a grant from TD Friends of the Environment Foundation to assist in the purchasing of GPS units to further explore the outdoors. Activities this year were: snowshoeing, building a campfire in the snow, quinzhee building, marsh exploring catch and release, and building bumblebee houses and chickadee nest boxes. Our special guests were: Trapper Verle Barfoot - furs, Peter Middleton - changing seasons and Kate MacLaren - pottery toad houses. We visited many areas: Kinghurst Forest with Nature Ontario as our guide, Cabot Head to watch bird banding and the Sydenham Sportsmen's Fish Hatchery to see thousands of fry. Amy Blackwell was the winner of the four day/three night Nature Camp Adventure at Camp Kawartha! What a fun and interesting year we had!!

Events in the Park
Three events took place at the Grey Sauble Conservation Administration Centre this year: Birds of Prey, Geo-What (Geocaching) and ART in the Park with the Tom Thomson Art Gallery. Over 200 people took part in our summer events to learn about and explore the outdoors in various mediums.

Royal Winter Fair
The Water Exhibit Display designed and created by Saugeen, Grey Sauble, Maitland Valley Conservation Authorities and Drinking Water Source Protection for the 2008 International Plowing Match, was invited to attend the Royal Winter Fair by the Manager of Agri-Food Innovations. From November 5th to the 14th, hundreds of people at the Exhibition Centre visited the life-sized display of the human mouth and body learning the importance of clean water and how our body needs it to function!

In January 2010, staff welcomed John Cottrill, as the new CAO of Grey Sauble Conservation. John brings over 25 years experience with him from various positions at: the Ministry of Natural Resources in Peterborough, Credit Valley Conservation Authority, Niagara Escarpment Commission and the St. Lawrence Parks Commission. Chairman, Dick Hibma stated “We are very pleased that John has accepted the position of Chief Administrative Officer and he will make a great compliment to staff.”

John looks forward to working with our municipalities, and stakeholder groups in the continued management of our natural resources for our children’s legacy.
The Source Protection Committee submitted the Proposed Assessment Reports for Saugeen, Grey Sauble and Northern Bruce Peninsula Source Protection Areas on September 17, 2010. These reports are currently being reviewed by the Ministry of the Environment and being considered for approval. The submitted reports can be viewed at www.waterprotection.ca along with a summary document that describes the technical process and general findings. A set of Updated Assessment Reports will be submitted to the Ministry in June 2011. The updated versions of the reports will include findings from studies and research addressing limitations such as data gaps and information received too late to include in the original reports. Consultation on the Updated Assessment Reports will begin in April 2011. In September 2010, the Source Protection Committee participated in a strategic planning session on policy development. This session included discussions on possible processes, structure and various other ideas to organize and streamline the policy requirements for Source Protection Plans. Guidelines for creating policies to address significant drinking water threats and possible recommendations were established.

The Agricultural and Rural Working Group and the Planning Officials Working Group that assist the Source Protection Committee were actively involved in the program throughout 2010. New ideas, suggestions and specific details that will reflect workable policies within the Source Protection Plans were presented regularly to the Committee.

Preparations for Source Protection Plans are underway. The Committee has begun reviewing background information on prescribed drinking water threats that will need to be addressed with policy. Draft policies will be discussed with established working groups, municipalities and other stakeholders that may be involved in monitoring and implementation of the policies. Consultation on the Proposed Source Protection Plans will begin in early 2012, with submission to the Ministry of the Environment due by August 2012.

The Ontario Drinking Water Stewardship Program, Early Actions initiative has finished with $700,000 in funding being spent on landowner projects to protect drinking water sources. A new phase of the program called Early Response, with over $700,000 in funding has been launched for 2011-2012. The new program will address local significant drinking water threats identified by the Source Protection Committee through the Assessment Reports. Types of landowner projects that may be eligible include: well and septic upgrades, manure storage facilities, fuel and chemical storage.

**Staff**
- Don Smith
- Nancy Guest
- David Ellingwood
- Thorsten Arnold
- Sara Pickard
- Emily Vandermeulen
- Steacy den Haan
- Elly Ward
- Karen Gillian
- Project Manager
- Administrative Assistant
- Program Supervisor
- Technical Supervisor
- Water Quality Technician
- GIS / Database Specialist
- Communications Specialist
- Outreach Specialist
- Education Specialist (Jan-Sept)

**Board of Directors**
- Mike Traynor, Chair
- Kathy Hughes
- Bill Twaddle
- Dale Thompson
- Mitch Twolan
- Brent Lanktree
- Les MacKinnon
- Carolynn Parker
- Carolyn Day
- Don Sankey
- Lee Heard
- Deb Haswell
- Chris Wilson
- Bruce Calvert
- Kelly Tost
- Marg Gaviller
- Hugh Greenwood
- Cliff Keeling
- Brent Lanktree
- Dr. David Biesenthal
- Mark Kraemer
- Ken Furlong
- Dale Thompson
- Lou D’Alessandro
- Karen Gillian
- Mark Kraemer
- Bruce Davidson
- Lorraine Brown
- Bob Lennox
- Ken Furlong
- Kristen VanAlphen
- Mike Traynor
- Ashley Brown of West Hill Secondary School was the winner of the $1,000 Environmental Scholarship.

**Environmental Scholarship**

**New Face, New Direction**
In September, Peter Reesor joined the Grey Sauble Conservation Foundation as the Foundation Coordinator. Peter brings many years of expertise in the multi-media and fundraising industry.

**Memorial Forest**
Another successful year with 115 trees planted in memory of a loved one in one of our three memorial forests located at: Big Mud Lake, Pottawatomie, and Griesville. Thank you to our sponsor Downs and Son Funeral Home of Hepworth. Every year in June, we host a Memorial Service for family and friends of those whom have had a tree planted.

**Wildwater Safety Program**
For the past number of years, the Foundation has financially assisted the Wildwater Program (Spring Ice Water Safety Program). This year, the Foundation received a grant from Bruce Power to revamp the fifteen year old Wildwater DVD. The new DVD and the a cartoon character “Wildwater Willie” show the children the do’s and don’t of playing safely outside.

**Earth Day Hikes**
Two Earth Day Hikes were held. Six hundred students from Meaford Community School, St. Vincent-Euphrasia Elementary School and Georgian Bay Secondary School raised $1,750 for their student councils, while 500 McPhail Memorial Elementary School students raised $1,300 for their council. The Foundation received $2,575 from these hikes.

**Volunteers Wanted**
Grey Sauble Conservation Foundation is looking for Committee Members and Volunteers to assist with Special Events, Conservation Projects, and the Annual Spring Tree Seedling Sale. Please e-mail us: foundation@greysauble.on.ca
Mark us on your 2011 Calendar

Earth Day & Arbour Day
April 22, 2011 to April 27, 2011
- Why we should plant Trees
- a newable, natural resource
- cleans our water
- prevents soil from blowing away
- a home for birds and animals
- helps prevent erosion
- cleans our air, traps carbon
- provides windbreaks/shelters
- saving us money for heating in the winter and cooling in the summer

Annual Tree Seedling Sale
Saturday, April 30th
8:00 am - 12:00 noon

Species Available
butternut, white birch, black cherry, black locust, sugar maple, red maple, silver maple, red oak, bur oak, white oak, hybrid poplar, black walnut, balsam fir, fraser fir, white cedar, eastern hemlock, tamarack, european larch, austrian pine, white pine, red pine, white spruce, norway spruce, colorado blue spruce, tulip tree, sycamore, nannyberry, american highbush cranberry, black elderberry, american hazelnut, juneberry (serviceberry), staghorn sumac
Prices Range from $1.00 - $25.00

CASH or CHEQUE, ONLY!
Small Quantity of Landscape Trees Available

Location: Grey Sauble Conservation Administration Centre - 237897 Inglis Falls Road, Owen Sound

Refreshments & BBQ lunch fundraiser by Grey Sauble Conservation Foundation

Earth Day & Arbour Day
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BOOK NOW for YOUR 2012 Tree Planting

Tree Planting Grants Available
1. 50 Million Tree Program
   - up to $1.25 per tree, grant available for eligible projects
     (minimum landowner contribution is $.15 per tree, minimum size of project 5 acres)
2. Full Service Program
   - $.50 per tree grant available for eligible projects
     (minimum 1,500 trees)
3. Grey Bruce Forestry Service Tree Planting Program
   - available for smaller planting projects

Membership: $25 (membership included with $50 donation or more)
Donation: $50 $75 $100 $150 Other: $

Please make cheques payable to:
Grey Sauble Conservation Foundation
237897 Inglis Falls Road
R.R.,#4
Owen Sound, ON N4K 5N6

Donate by credit card at: www.canadahelps.org

Name: ____________________________
Address: __________________________
City: __________________ Province: __________________ Postal Code: ____________
Telephone/Cell: (_____ )_______ E-mail: ______________________________

Questions about our programs, please call at 519 376-3076 or e-mail k.mcke@greysauble.on.ca
Visit our website www.greysauble.on.ca

The Great Outdoors Adventure
Summer Day Camp
Join us in Outdoor Adventure!
Beginning July 4, 2011 to August 26, 2011
Crayfish Hunting, Outdoor Games, Crafts, Hiking, Scavenger Hunts, and more!
Costs: $22.00 per day
Place: Grey Sauble Admin Centre
Day Camp Hours: 8:30 am- 4:30 pm
For Ages: 7 - 12
Maximum: 24 children per day
Download our registration form www.greysauble.on.ca
Register today so your kids won’t be disappointed!