# Ottawa's Great Forest The South March Highlands

South March Highlands - Carp River Conservation Inc.

### National Capital's 3 Major Eco-Corridors



## A Wild Island Inside Ottawa 10,000 Years Old 3x Larger Than Stanley Park

**10 Distinct** 

Habitats

Old Growth Trees > 100 Years Old

Stray Water - Picker

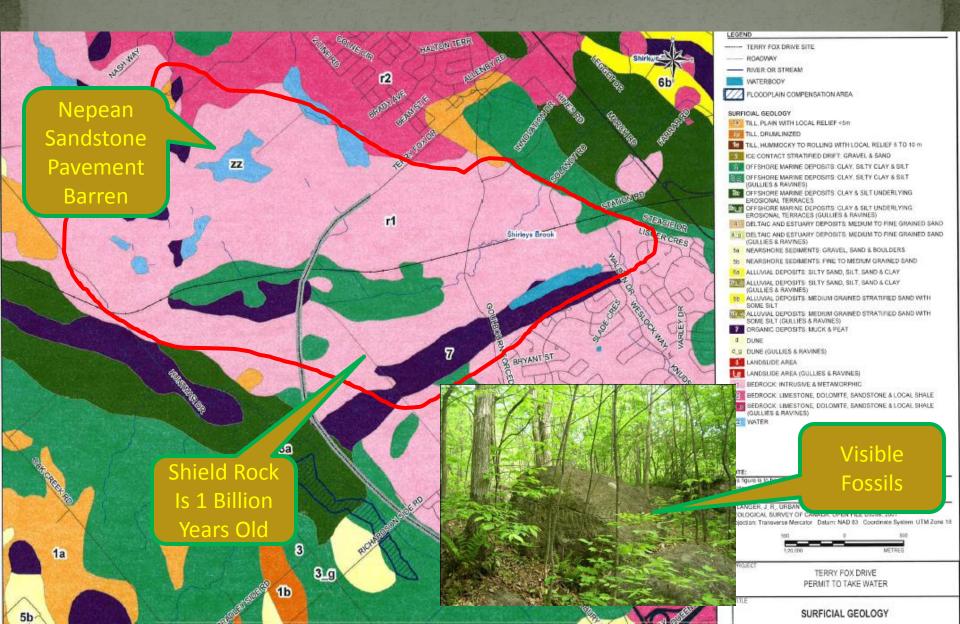
30 Eco-Types Of Vegetation

Visible Canadian Shield

#### **South March Highlands**



#### **Rich GeoHeritage**



#### Only Location In Ottawa with Exposed Canadian Shield



### Distinctive and Unique Formations



## Glaciation & Ancient Sea on Display



In area B, glacial chatter marks (above); striations (top right) and crescent gouges are evident. Only chatter marks and crescent gouges provide ice movement direction. The striated surface retains a remnant mm-thick glacial pavement of semi-fused quartz grains.









A – remnant (symmetrical?) ripple marks; B, C trough cross beds; D- Eroded Algal mounds? All features suggest a low energy tidal, perhaps estuarine, setting when the area was close to the equator with no vegetation as we know it.



# Cultural Heritage Ancient Archaeological Sites



### **Euro-Canadian Sites Too**



McMurtry's Tannery (Circa 1860)

#### Also:

- Several 19<sup>th</sup> Century homestead sites dating back to 1820 (as old as Pinhey's Point)
- Richardson Stone House dating back to approx. 1860 (as old as the Log Farm)
- A Feldspar Mine dating approximately to 1919-1921 (unique in Ottawa)

#### Natural Heritage: Densest Bio-Diversity In Ottawa [Brunton, 2008]

Over 679 Species: 440 Native Plants 164 Avian 75 Mammals, Fish, Amphibians, Reptiles

Unknown Number of Insect, Fungi & Bryophyte Species

> All Within an Area of 3 x 4 km

### **Provincially Significant Life Science Area**

895 Hectares Rated ANSI

Highest Floristic Diversity of Any Natural Area in Ottawa

> 5.08 = Highest Coefficient of Conservation in Ottawa

440 Species <u>Native</u> Vascular Plants

26 Species Traditionally Used for Native Medicine

2 Endangered 6 Provincially Rare 64 Regionally Rare 50 Uncommon Native Vascular Plants

## Ponds, Meadows & Forests







"Trillium Woods, which is like a chunk of the Gatineau in the urban landscape of Ottawa, with rich plant and animal life found nowhere else in the urban part of the City" Ottawa Urban Natural Areas Environmental Evaluation [Muncaster & Brunton, 2008]

# Old Growth Commonly Found



## No Comprehensive Biological Survey



## + Provincially Significant Wetland Complex

114 Hectares Rated ANSI

164 Avian Species Observed

1 Endangered
 4 Threatened
 5 Special Concern
 30 Regionally Rare
 Avian Species

# 136 Bird Species Nest in the SMH









### Undocumented Number of Vernal Pools

Over 26 identified species of Herpetofauna

3 Threatened Species 2 Special Concern

Insect of Special Concern (Monarch Butterfly)

# **19 Known Species At Risk**

#### **Endangered or**

#### **Threatened**

- American Ginseng
- Butternut
- Loggerhead Shrike
- Bobolink
- Whip-poor-will
- Golden Winged Warbler
- Olive Sided Flycatcher
- Western Chorus Frog
- Blanding's Turtle
- Eastern Musk Turtle

#### <u>Special</u> Concern

- Bridle Shiner
- Short Eared Owl
- Black Tern
- Common Nighthawk
- Snapping Turtle
  - Eastern Milksnake
- Monarch Butterfly
  - Bald Eagle
  - Red Headed Woodpecker

## 11 Species Already Extirpated From SMH

- Cathcart's Woodsia
- Oregon Woodsia
- Spiny Coon-tail
- Adder's-tongue Fern
- Back's Sedge
- Large Duckweed
- Long-spurred Violet
- Showy Orchis
- Southern Arrow-wood
- Strawberry-blight
- Virginia Spring Beauty

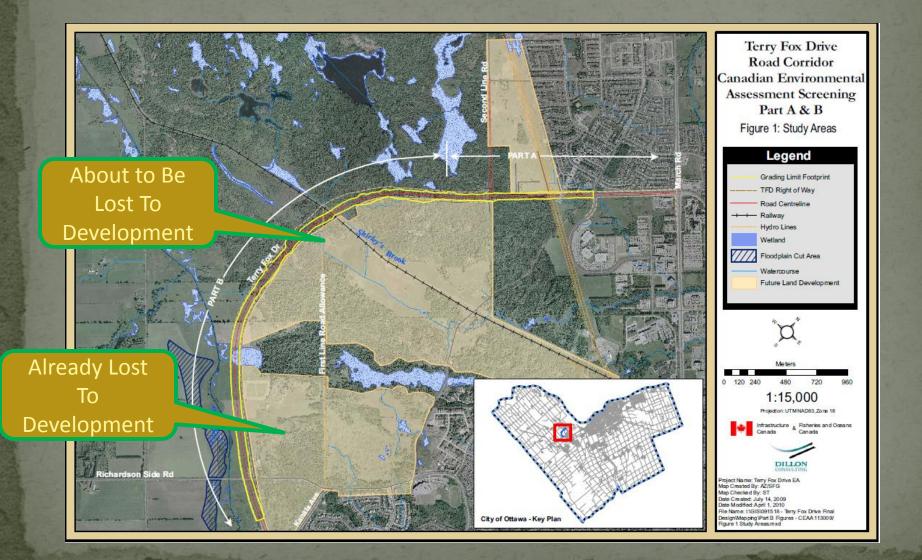


## **18 Candidate SAR Also Found in SMH**

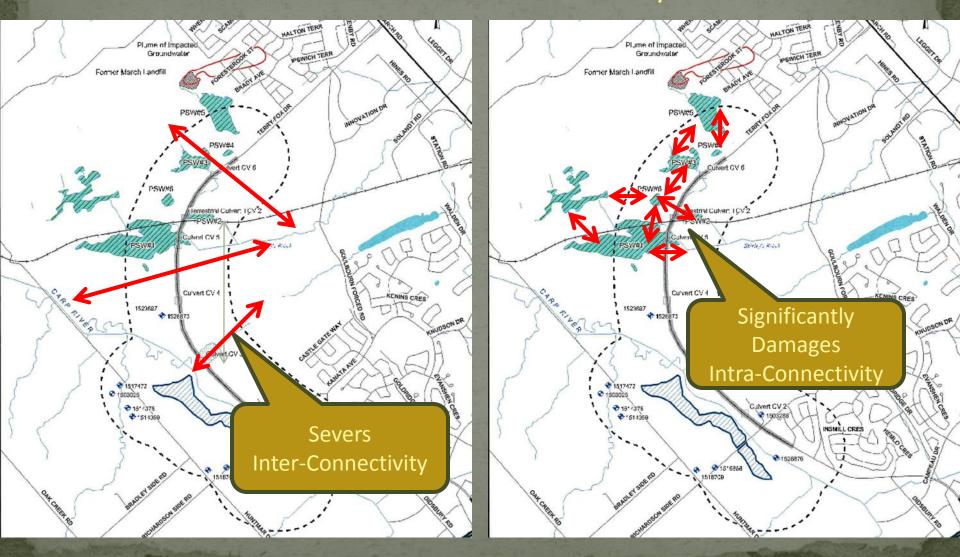
- Evening Grosbeak
- Eastern Wood Peewee
- Wood Thrush
- Bank Swallow
- American Bullfrog
- American Kestrel
- Belted-Kingfisher
- Eastern Red-Backed Salamar
- Field Sparrow

Blue-Spotted Salamander
American Toad
Bluntnose Minnow
Boreal Chickadee
Borea

## Development Threatens <sup>1</sup>/<sub>2</sub> The SMH



## TFDE's Unmitigated Impact on Eco-Connectivity



# Non-Sustainable Subdivisions Planned

- 1996 Beaver Pond Dam
  - No MoE Environmental Assessment
  - No MNR LIRA permit
  - No DFO permit for dredging the lake
- 2006 Kizell converted into a SWM Cell
  - No Environmental Assessment
  - No pollution control
  - Contradicts UNF wetland designation
- 2010 Regional approved locating SWM Facility in Carp River Floodplain

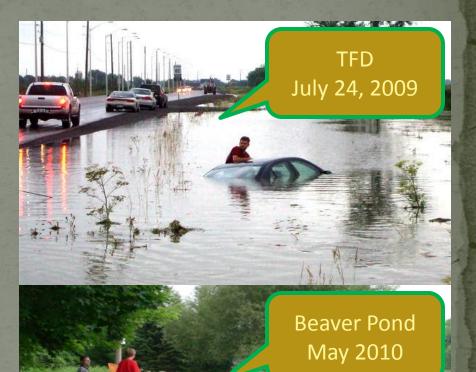
Cannot possibly function during floods

- Future plans depend on diversion of storm water from Shirley's Brook to Kizell
  - Not permitted by Subwatershed Plan
  - Increases Flood risk in areas already subject to flooding



## Flooding Risk Is Real

- 1500 Homes Flooded July 24, 2009 in Stittsville, Kanata North, Kanata South, West-Carleton
  - Common Causes
    - Failure to account for cumulative storm water flows from subdivisions
    - Failure to respect recommendations of applicable Subwatershed Plans
    - Excessive removal of floodplain and wetlands
- Planned subdivisions in the SMH are NOT in accordance with applicable Subwatershed Plans

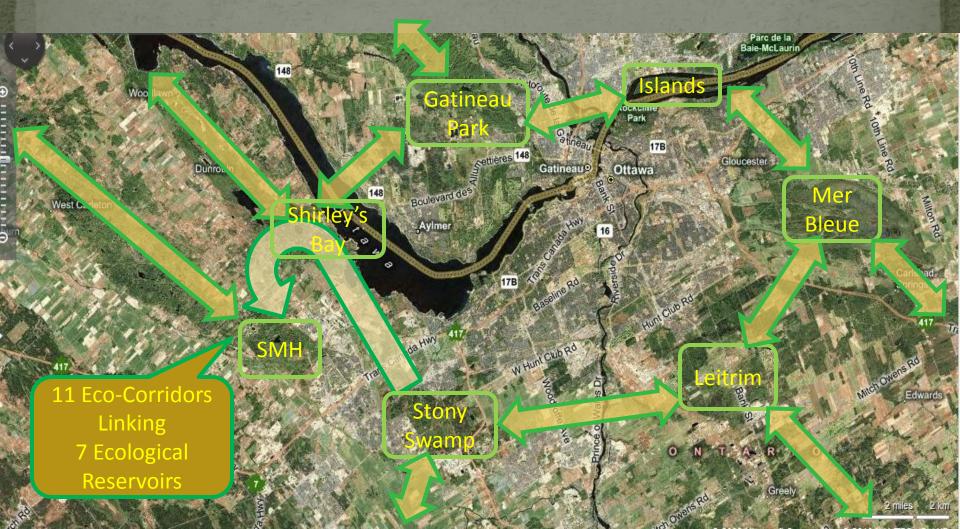


#### **Opposition to Development**

- Coalition To Protect South March (5000+ people)
- David Suzuki Foundation
- Sierra Club of Canada
- Greenbelt Coalition
- Canadian Parks & Wilderness
- Federation of Community Associations
- Green Party of Canada
- Ottawa Riverkeeper
- Ecology Ottawa
- Ottawa Valley Field Naturalists
- Ottawa Carleton Wildlife Centre
- Greenspace Alliance
- and many others



# Alternative Vision of Eco-Corridors Revitalizing The Emerald Necklace



## Stewardship for Ottawa's Great Forest

 South March Highlands is the most accessible of the major forests in Ottawa:

- Malborough Forest
- Larose Forest

SMH has significant value as Green Infrastructure

Requires active stewardship to:

Manage responsible use
Protect sensitive areas
Maximize educational value
Maximize recreational value
Celebrate eco-toursim value



#### Stewardship Plan for Ottawa's Great Forest

#### Acquire SMH from Developers

- City of Ottawa acquires Beaver Pond Forest
- NCC acquires remaining areas as part of Greenbelt Master Plan

#### South March Highlands Carp River Conservation will

- Manage the area at no cost to the City using volunteers
- Education and recreation programs in partnership with Kanata Recreation Centre
- Eco-tourism in partnership with Ottawa Tourism Bureau

#### **Estimated Economic Benefit**

- \$25 Million / year
- Zero Cost to taxpayers



### Value of Green Infrastructure

#### • Value of replenishing Natural Resources

\$2 M / year for cleaning Air & Water, pollination, resisting invasive species [Suzuki Foundation estimate]

#### Educational Value

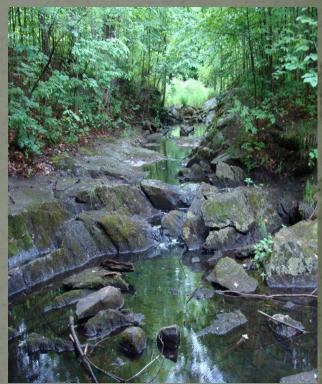
\$0.3 M / year ongoing reduced travel cost for school field trips based on 2 hour travel time reduction \$priceless: able to experience nature rather than read about it

#### Recreational Value

\$0.5 M / year user fees for outdoor recreation programs managed by the Kanata North Recreation Centre (KNRC) based on \$5 / person / day

#### • Eco-Tourism Value

\$25 M / year increased economic value from 1% of 7.8 M visitors staying 1 extra day to explore Ottawa's Great Forest



### Advantage of Green Infrastructure

Black Infrastructure must be rebuilt / repaired periodically
 Green Infrastructure is perpetually replenished by nature

 Stewardship Plan uses volunteer resources to partner & deliver Green Infrastructure value at Zero cost to taxpayers

- Forest Management in conjunction with City staff
- Educational Programs in partnership with School Boards
- Recreation Programs in partnership with KNRC
- Eco-Tourism Promotion in partnership with Ottawa Tourism



### Will You Help Defend This Forest?

4742 people via Facebook 1025 people via Twitter 183 people via E-Mail

> All Major Ecological Groups in Ottawa

Ottawa School Boards Ottawa Macro-Ecology Canadian BioDiversity

<u>All</u> of the Community Associations in Ottawa