

A Biodiversity Action Plan

*to collectively protect nature in
Hamilton and to promote
Nature-based Solutions to the
Climate Emergency.*



Biodiversity is the diversity of all life on earth





1,000+
plant
species



396
bird
species



43
mammal
species



100
butterfly
species



350
bee
species



87
fish
species

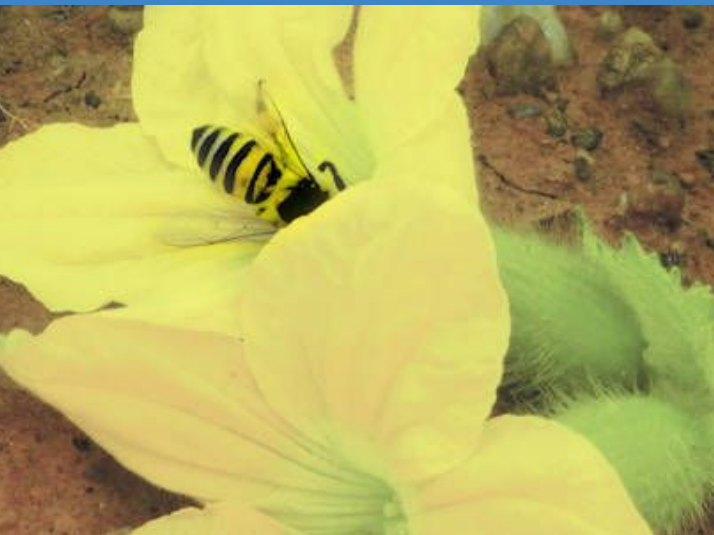
Nature Benefits



Annual Ecosystem Services

= US\$33,000,000,000,000 globally
\$577 billion in pollinating services

Every \$1 invested in nature-based solutions = \$7-30 ROI



Pollination



Fresh Air &
Cooling Effects



Stormwater
Management





© Thomas 08



Flooding Dundas 2017

Hamilton is the
best place to raise
a child and age
successfully

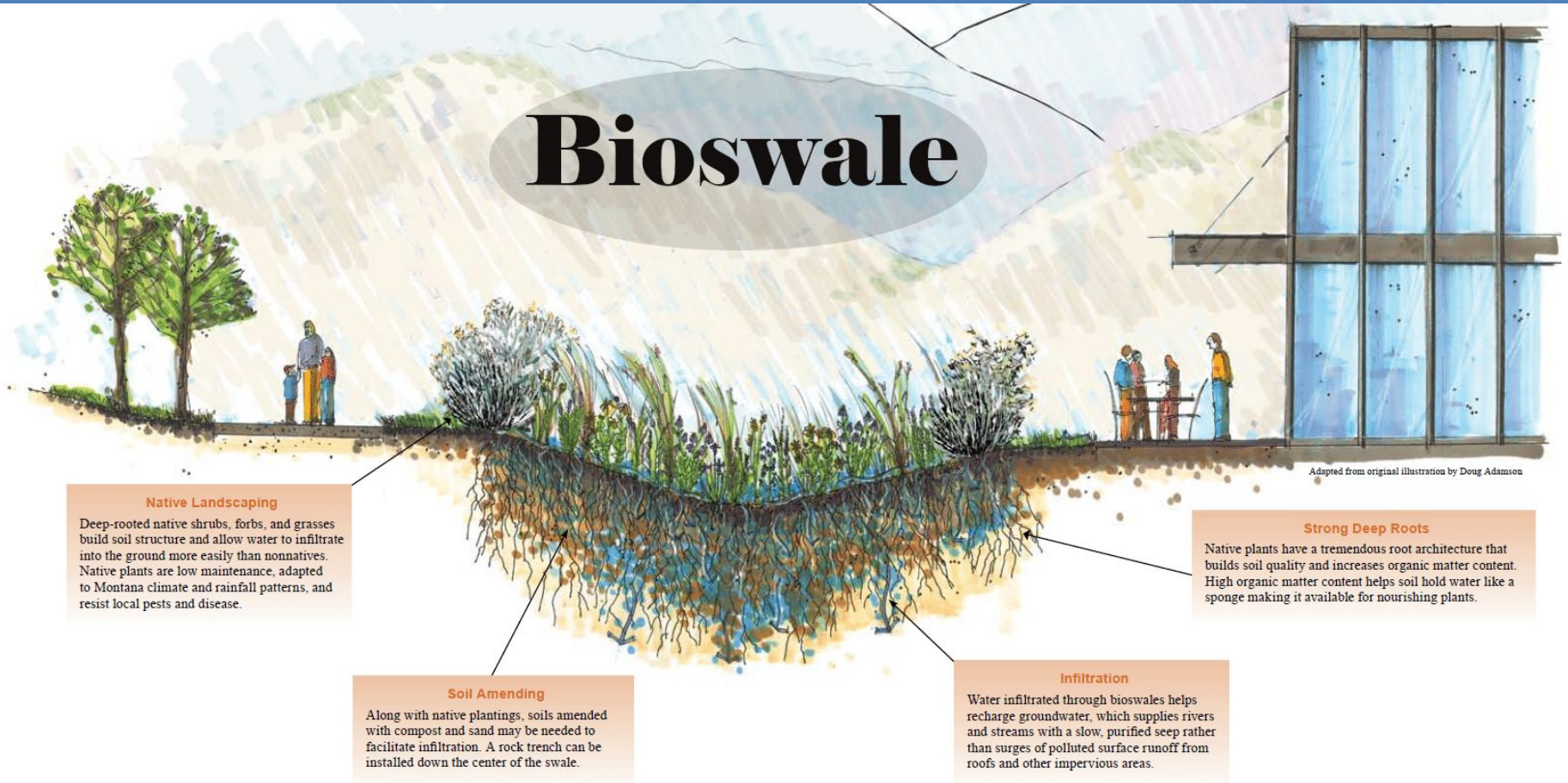
WHAT IS A BIODIVERSITY ACTION PLAN?

Examples of measurable actions

- managing invasive species and planting native species
- education events
- green roof guidelines
- **nature-based solutions** for managing water like bioswales, rain gardens

WHAT IS ALREADY HAPPENING?

Bioswale



WHAT CAN HAPPEN AT LOW COST?

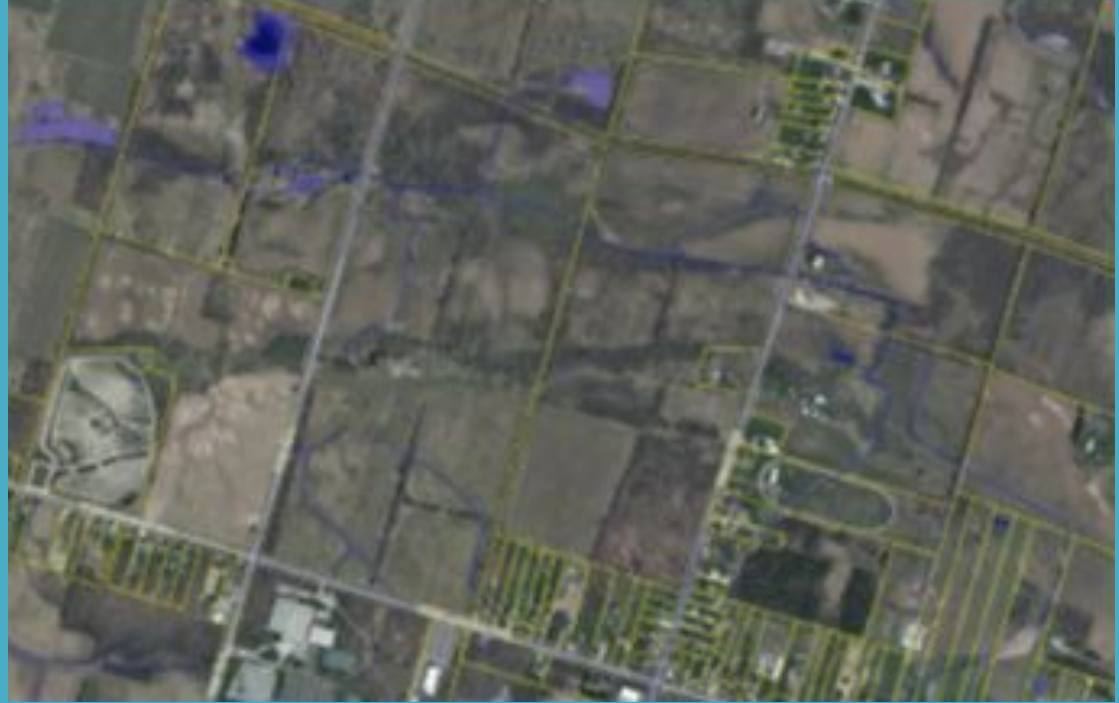


Downspout connected to the sewer pipe. Most homes in the Pocket had downspouts installed in this way.

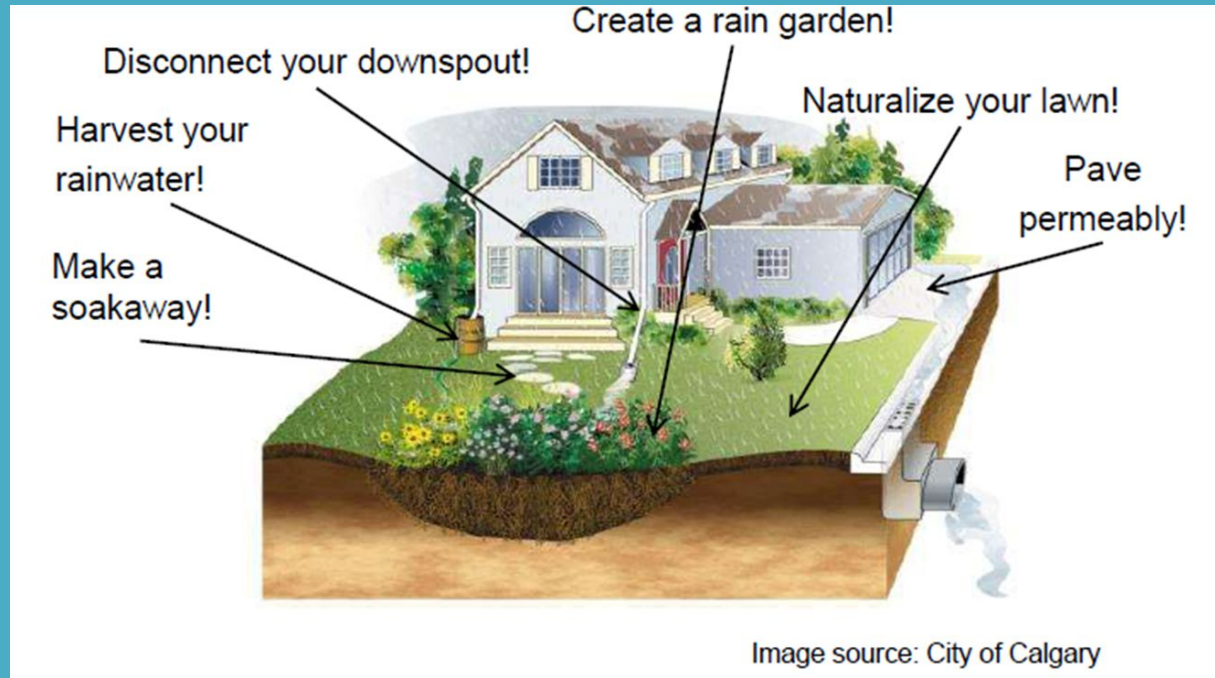


Downspout disconnected from the sewer pipe so the rainwater flows to the grass or garden.

HCA land acquisition for wetland creation



Smaller projects add up to big impacts



**We cannot solve the threats of
human-induced climate change
and loss of biodiversity in
isolation.**

**We either solve both or we
solve neither.**

Benefits of Nature



2020 Year for Nature

Ecosystem Service examples



\$8.2 Million
ENERGY SAVINGS



\$4.0 Million
GROSS CARBON SEQUESTRATION



\$37.6 Million
POLLUTION REMOVAL



\$4.8 Million
AVOIDED RUNOFF



\$55.0 Million
TOTAL ANNUAL BENEFITS

Urban Forest Ecosystem Services

toronto.ca/trees



\$55.0 Million
TOTAL ANNUAL BENEFITS



\$8.2 Million
ENERGY SAVINGS



\$4.0 Million
GROSS CARBON
SEQUESTRATION



\$37.6 Million
POLLUTION REMOVAL



\$4.8 Million
AVOIDED RUNOFF

#C

BY THE NUMBERS

Shoppers claim they are
willing to spend

9-12%

MORE

for goods and services in
central business districts that
have high-quality tree canopy.

Nature helps business

In short, nearby nature makes for healthy employees, and healthy employees make for better business.