

# The Role of the Modern Landfill - Ontario Context -



AIR & WASTE MANAGEMENT  
ASSOCIATION

Ontario Section

Air & Waste Management Association  
Spring 2014 Conference  
Mississauga, ON

Presented by: Darren Fry, A.Sc.T  
Walker Environmental Group



**Walker  
Environmental  
Group**

# OUTLINE

- Walker Environmental Group
- Southwestern Landfill EA
- Ontario Disposal Capacity Deficit
- Safe, Reliable & Economical Disposal
- Land Use – Interim & End

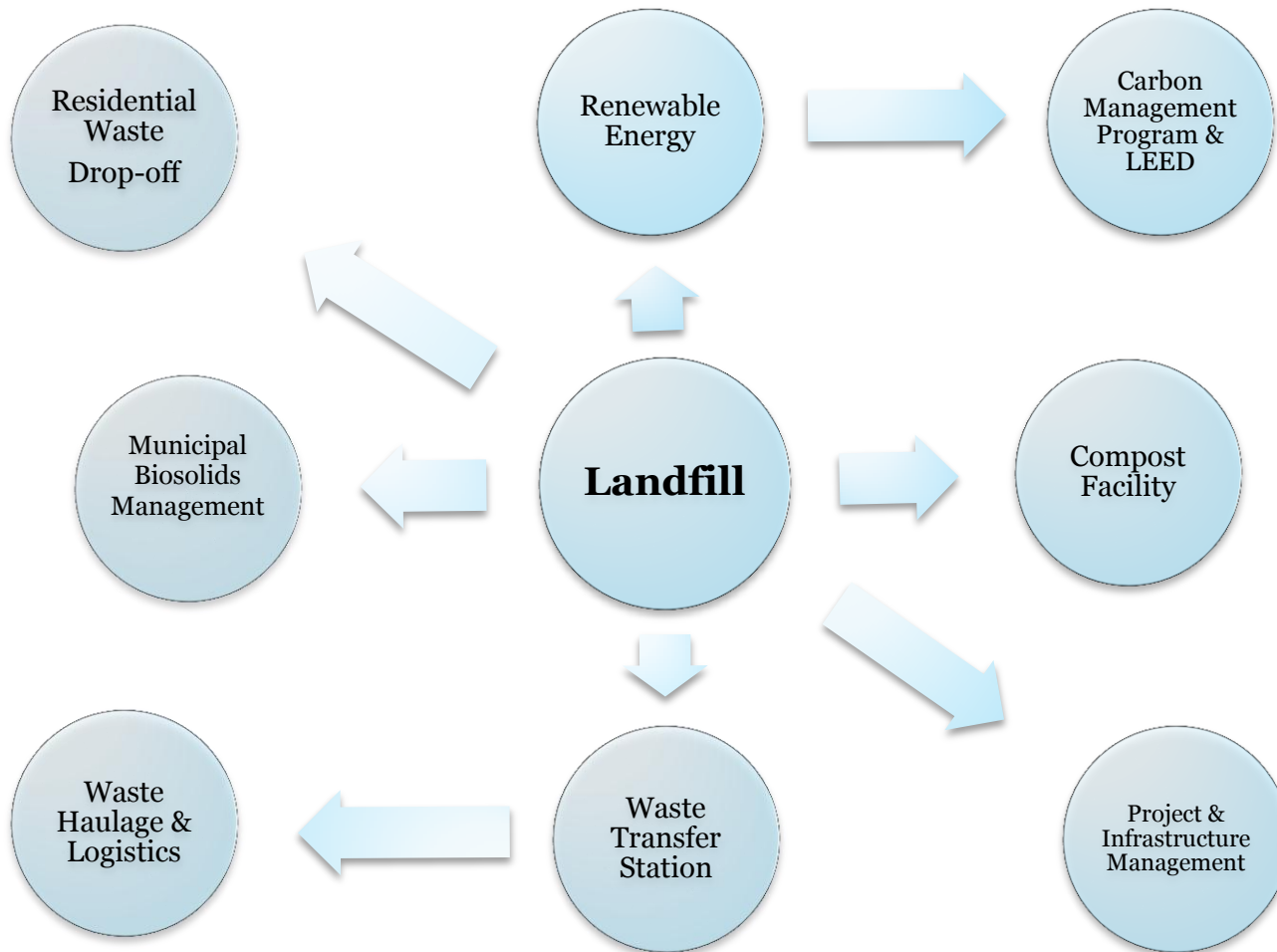


# WALKER ENVIRONMENTAL GROUP

## Environmental Businesses

Composting	80,000 t/yr (GORE)
Biosolids Management	20,000 t/yr (NVIRO)
Organic Resource Management	Grease Trap & Used Cooking Oil
Renewable Energy	35 MWe Landfill Gas Energy (IGRS)
Green Building	LEED/Carbon Neutral Buildings
Landfill & Site Remediation	Technical Support
Project Management	Environmental Infrastructure
Residential Drop-off	Recycling, WEE, Tires
IC&I Waste Haulage	Niagara, Burlington
Waste Transfer	140,000 t/yr
Landfill Disposal	1,000,000 t/yr

# LANDFILL AS THE “HUB” WASTE MANAGEMENT CAMPUS



# SOUTHWESTERN LANDFILL PROPOSAL EA

Walker Environmental Group is considering growing our waste management business into Southwestern Ontario.

With three decades of experience in the waste management business in the Niagara Region, this Proposal will expand our business by establishing new environmental infrastructure in Oxford County.

We believe that waste reduction, waste diversion and recycling are important parts of successful and sustainable waste management systems.

We also understand that every waste management system must be supported by a reliable and cost effective disposal facility for residual wastes that cannot be reused or recycled.

## *Considering an Investment*

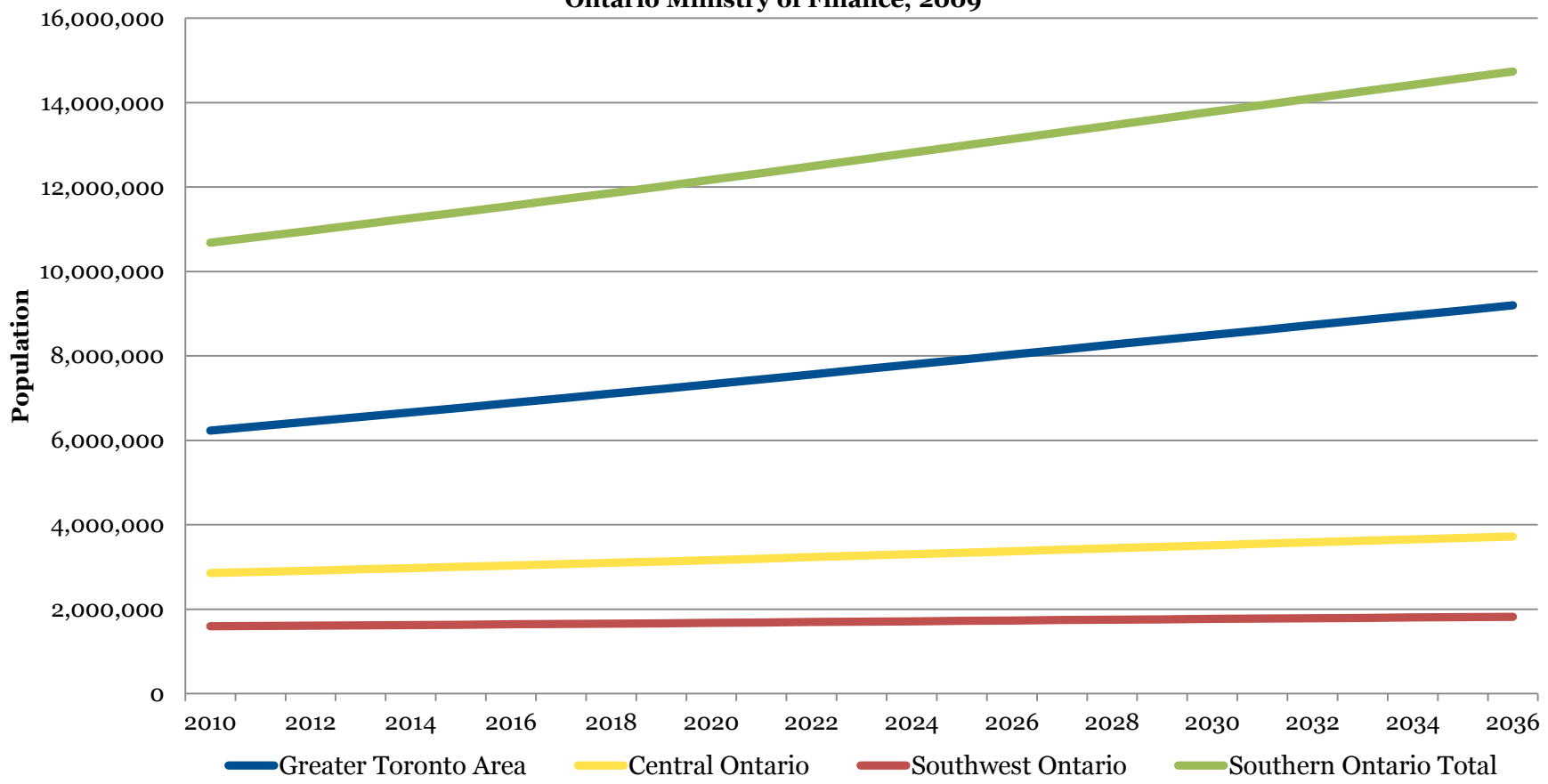
Landfills across southern Ontario are filling up. Since 1989, 649 of Ontario's 730 landfills have closed. Fewer than 10 have opened.

Ontario relies on shipping waste to the United States for disposal and sends close to 3 million tonnes of solid waste to Michigan and New York annually. Over the past 10 years, Ontario has shipped over 31 million tonnes of waste to Michigan.

Planning and action are needed to address waste management needs for future generations.

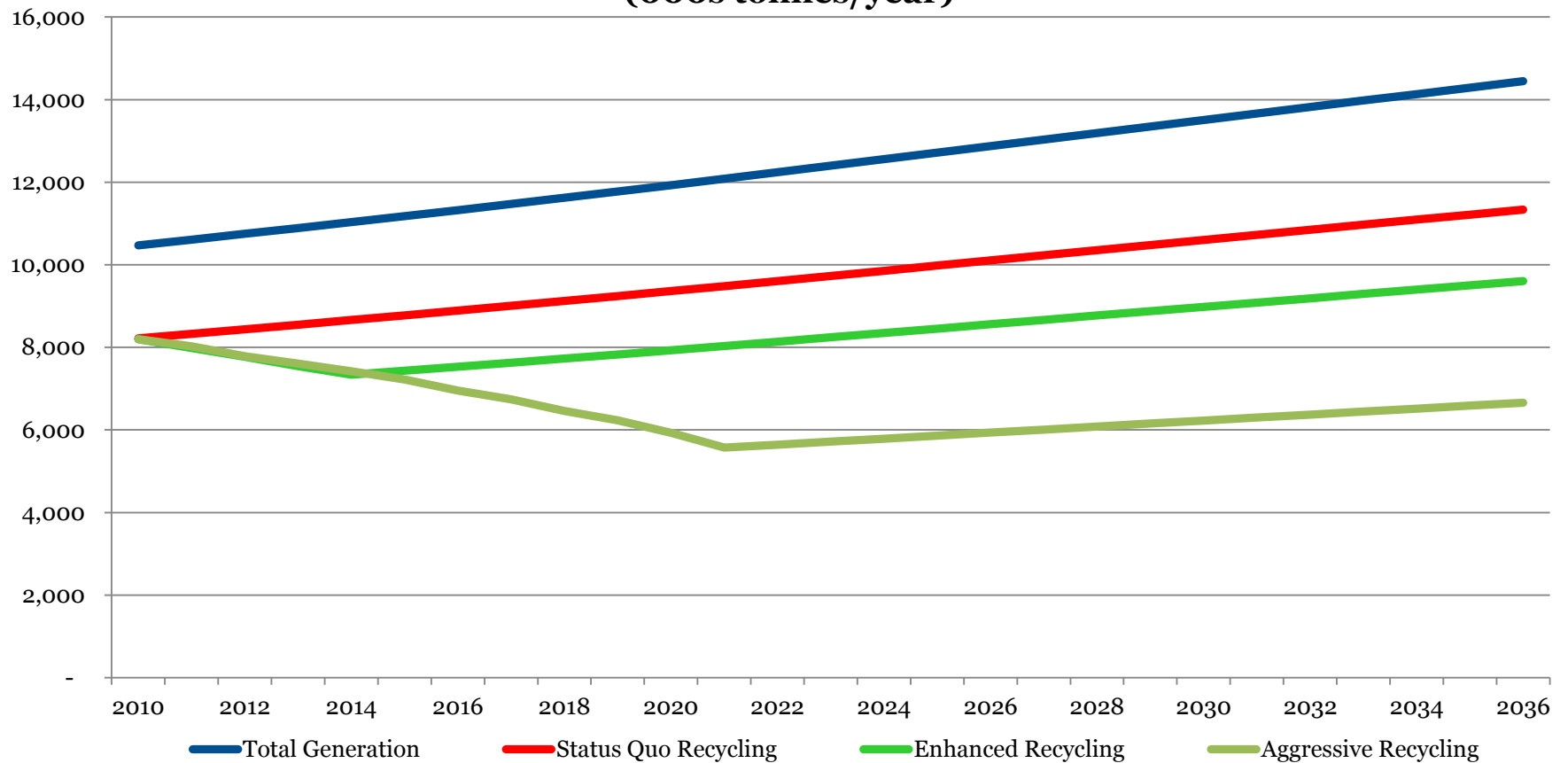
# ONTARIO POPULATION FORECAST

**Ontario Population Forecast**  
Ontario Ministry of Finance, 2009



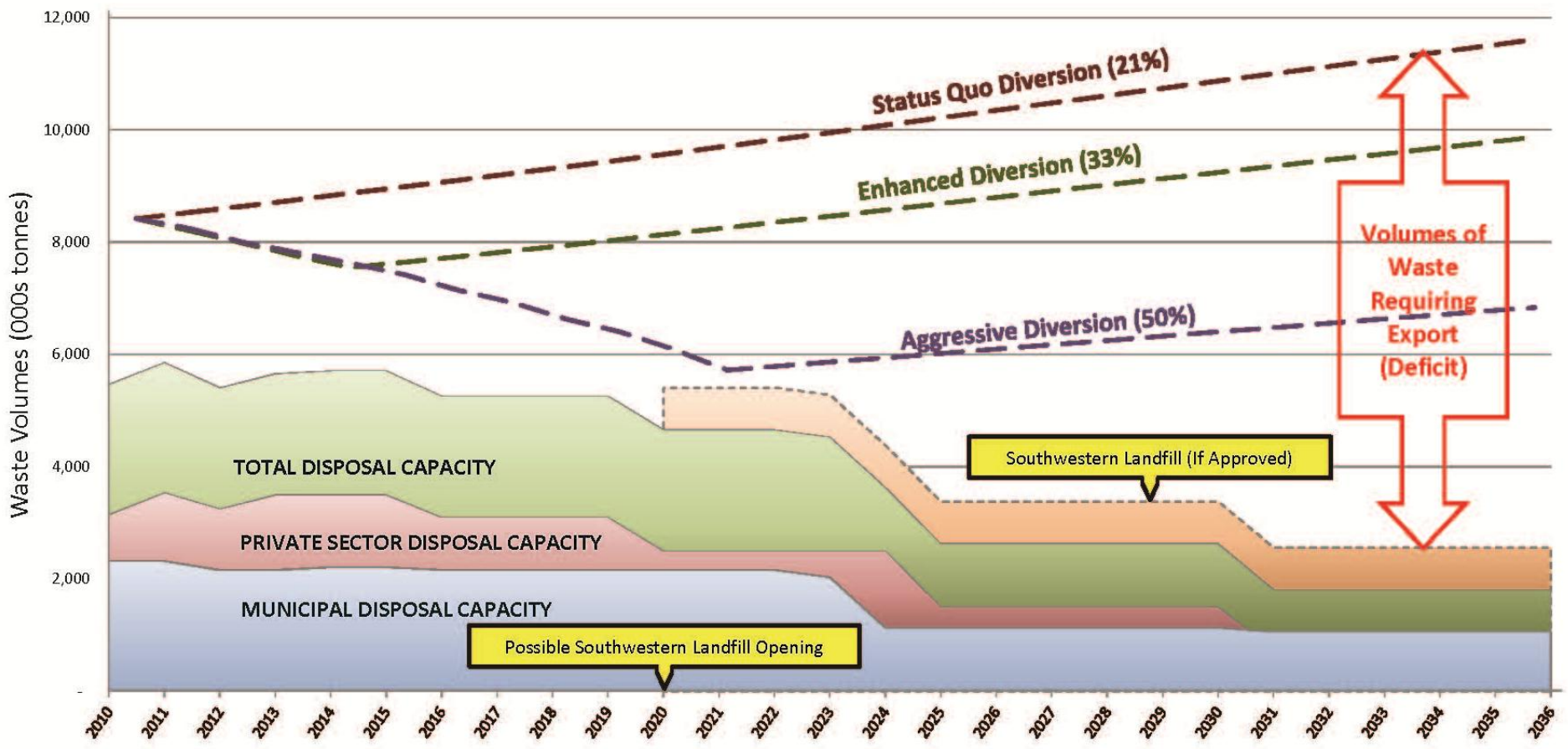
# PROJECTED WASTE DISPOSAL DEMAND

**Projected Ontario Waste Disposal Demand  
(000s tonnes/year)**



# ONTARIO WASTE DISPOSAL CAPACITY

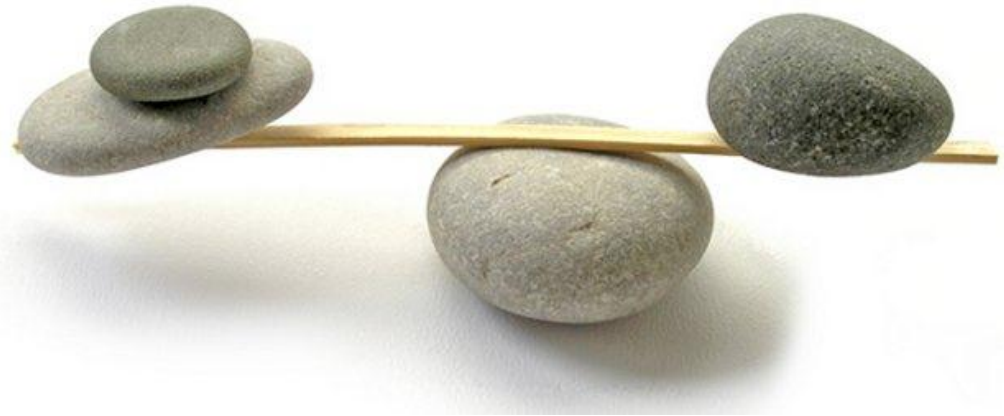
## Projected Southern Ontario Waste Disposal Deficit





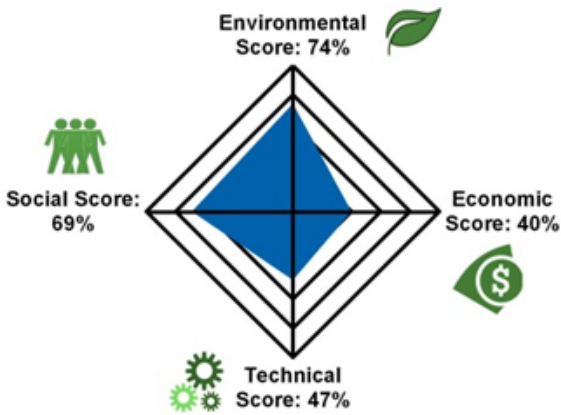
# WASTE DISPOSAL - PRIVATE SECTOR

- Cannot:
  - control flow
  - expropriate land
  - impose levies
- Must:
  - respond to policy
  - respond to market forces
  - be competitive



# WASTE DISPOSAL OPTIONS

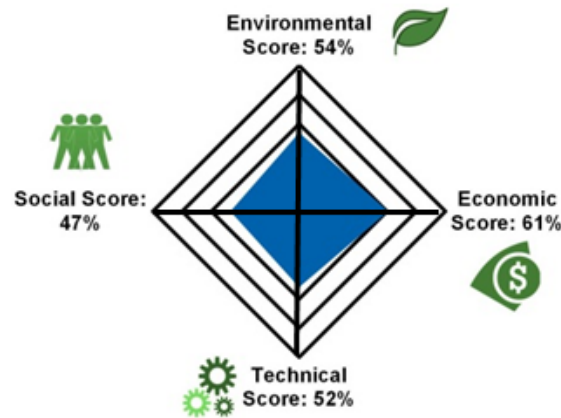
## Thermal Treatment



**Single Score: 58%**

**Best performing**

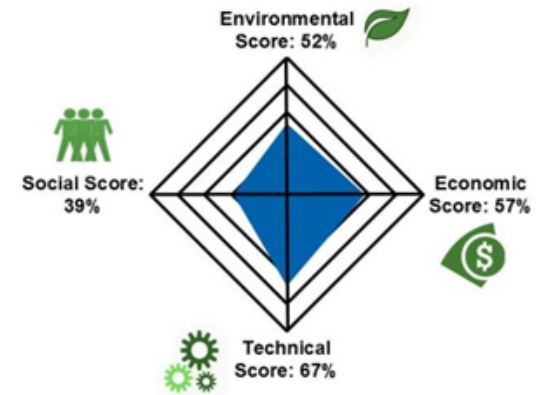
## Mechanical Biological Treatment



**Single Score: 54%**

**2nd best performing**

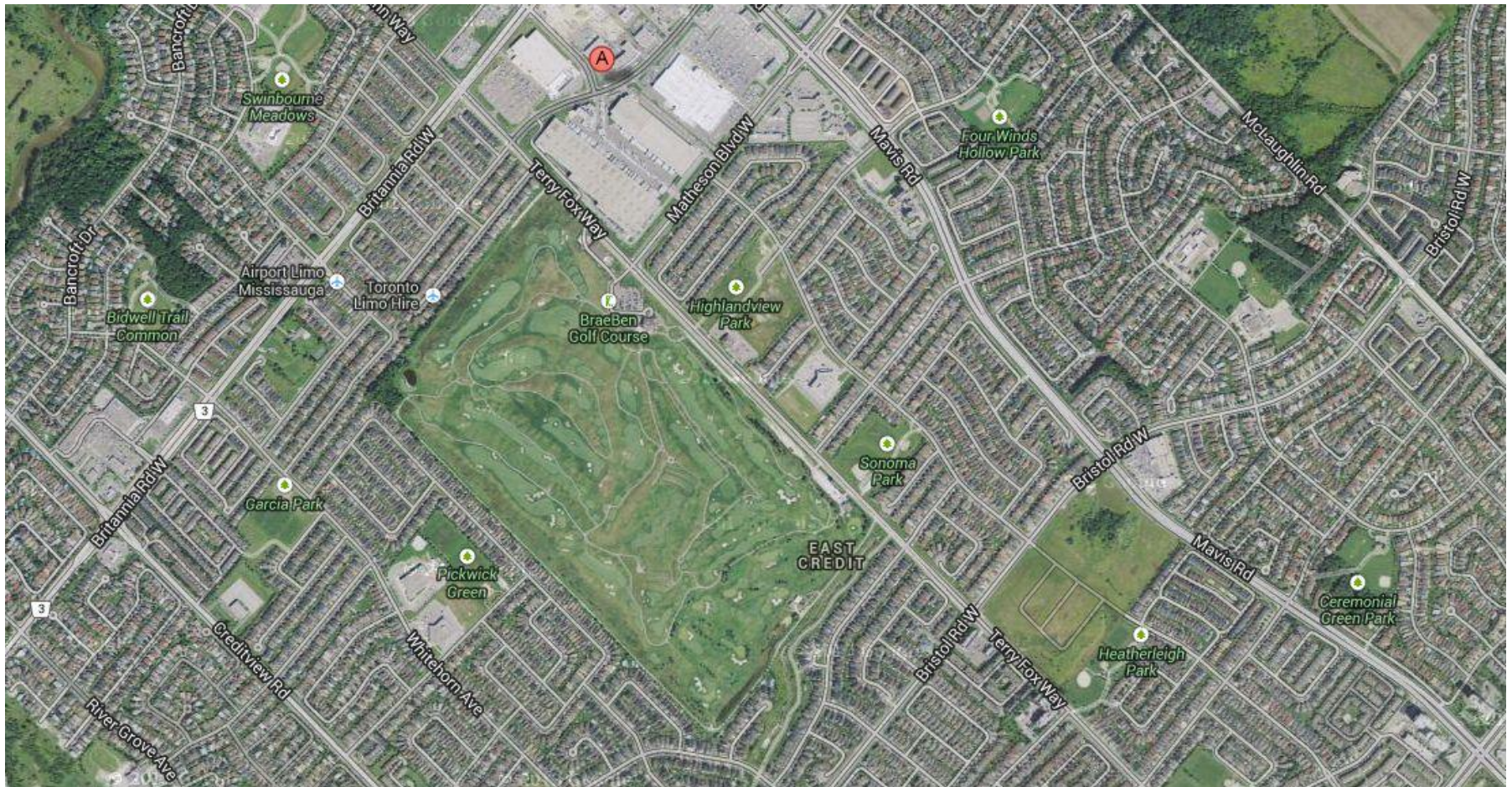
## Landfill



**Single Score: 54%**

**2nd best performing**

# BRITANNIA RD LANDFILL MISSISSAUGA, ON



# LANDFILL OR GOLF COURSE?



# BRAEBEN GOLF COURSE MISSISSAUGA, ON



Source:  
[www.scoregolf.com/braeben-golf-course-mississauga-ontario-canada](http://www.scoregolf.com/braeben-golf-course-mississauga-ontario-canada)